

Auf Basis einer ganzheitlichen Exomsequenzierung bieten wir eine Analyse aller bisher mit einer Krankheit assoziierten Gene an. Die Basis dafür bietet das MorbidGenes-Panel (www.morbidgenes.org).

Dieses wird monatlich aktualisiert.

Bei spezifischen Fragestellungen ist eine Auswertung auf Basis einer in silico Panelanalyse möglich. In dieser Datei sind verschiedene in silico Panel als Beispiele aufgeführt.

MorbidGenes_Gesamt	5048 Gene
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Reproduktionsgenetik	45 Gene
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Tumorprädisposition*	26 Gene
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Augenerkrankungen	44 Gene
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Skelett- und Bindegewebe	39 Gene
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Individuelle Diagnostik**	4895 Gene
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*bitte gesondertes Formular benutzen

** Individuelle Zusammenstellung/Einzelgenanalyse möglich

Im Rahmen einer ganzheitlichen Exomsequenzierung können Zufallsbefunde anfallen, welche eine Vorsorge- oder Therapierelevanz haben.

Die Gene sind in folgendem Reiter abgebildet

Zufallsbefunde	83 Gene
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Angepasst von**<https://morbidgenes.uni-leipzig.de/>****(Aufruf 25.11.2024)**

Symbol	Location	OMIM_url
A2ML1	12p13.31	
A4GALT	22q13.2	https://www.omim.org/entry/607922
AAAS	12q13.13	https://www.omim.org/entry/605378
AAGAB	15q23	https://www.omim.org/entry/614888
AARS1	16q22.1	https://www.omim.org/entry/601065
AARS2	6p21.1	https://www.omim.org/entry/612035
AASS	7q31.32	https://www.omim.org/entry/605113
ABAT	16p13.2	https://www.omim.org/entry/137150
ABCA1	9q31.1	https://www.omim.org/entry/600046
ABCA12	2q35	https://www.omim.org/entry/607800
ABCA13	7p12.3	
ABCA2	9q34.3	https://www.omim.org/entry/600047
ABCA3	16p13.3	https://www.omim.org/entry/601615
ABCA4	1p22.1	https://www.omim.org/entry/601691
ABCA5	17q24.3	
ABCA7	19p13.3	
ABCB1	7q21.12	https://www.omim.org/entry/171050
ABCB11	2q31.1	https://www.omim.org/entry/603201
ABCB4	7q21.12	https://www.omim.org/entry/171060
ABCB6	2q35	https://www.omim.org/entry/605452
ABCB7	Xq13.3	https://www.omim.org/entry/300135
ABCC2	10q24.2	https://www.omim.org/entry/601107
ABCC6	16p13.11	https://www.omim.org/entry/603234
ABCC8	11p15.1	https://www.omim.org/entry/600509
ABCC9	12p12.1	https://www.omim.org/entry/601439
ABCD1	Xq28	https://www.omim.org/entry/300371
ABCD4	14q24.3	https://www.omim.org/entry/603214
ABCG5	2p21	https://www.omim.org/entry/605459
ABCG8	2p21	https://www.omim.org/entry/605460
ABHD12	20p11.21	https://www.omim.org/entry/613599
ABHD16A	6p21.33	https://www.omim.org/entry/142620
ABHD5	3p21.33	https://www.omim.org/entry/604780
ABL1	9q34.12	https://www.omim.org/entry/189980
ABO	9q34.2	
ACACA	17q12	https://www.omim.org/entry/200350
ACAD8	11q25	https://www.omim.org/entry/604773
ACAD9	3q21.3	https://www.omim.org/entry/611103
ACADM	1p31.1	https://www.omim.org/entry/607008
ACADS	12q24.31	https://www.omim.org/entry/606885
ACADSB	10q26.13	https://www.omim.org/entry/600301
ACADVL	17p13.1	https://www.omim.org/entry/609575
ACAN	15q26.1	https://www.omim.org/entry/155760
ACAT1	11q22.3	https://www.omim.org/entry/607809
ACBD5	10p12.1	https://www.omim.org/entry/616618
ACBD6	1q25.2-q25.3	https://www.omim.org/entry/616352

ACD	16q22.1	
ACE	17q23.3	https://www.omim.org/entry/106180
ACE2	Xp22.2	
ACER3	11q13.5	
ACO2	22q13.2	https://www.omim.org/entry/100850
ACOX1	17q25.1	https://www.omim.org/entry/609751
ACOX2	3p14.3	https://www.omim.org/entry/601641
ACP4	19q13.33	https://www.omim.org/entry/606362
ACP5	19p13.2	https://www.omim.org/entry/171640
ACSF3	16q24.3	https://www.omim.org/entry/614245
ACSL4	Xq23	https://www.omim.org/entry/300157
ACTA1	1q42.13	https://www.omim.org/entry/102610
ACTA2	10q23.31	https://www.omim.org/entry/102620
ACTB	7p22.1	https://www.omim.org/entry/102630
ACTC1	15q14	https://www.omim.org/entry/102540
ACTG1	17q25.3	https://www.omim.org/entry/102560
ACTG2	2p13.1	https://www.omim.org/entry/102545
ACTL6A	3q26.33	
ACTL6B	7q22.1	https://www.omim.org/entry/612458
ACTL7A	9q31.3	https://www.omim.org/entry/604303
ACTL9	19p13.2	https://www.omim.org/entry/619251
ACTN1	14q24.1	https://www.omim.org/entry/102575
ACTN2	1q43	https://www.omim.org/entry/102573
ACTN4	19q13.2	https://www.omim.org/entry/604638
ACVR1	2q24.1	https://www.omim.org/entry/102576
ACVR1B	12q13.13	https://www.omim.org/entry/601300
ACVR2B	3p22.2	https://www.omim.org/entry/602730
ACVRL1	12q13.13	https://www.omim.org/entry/601284
ACY1	3p21.2	https://www.omim.org/entry/104620
ADA	20q13.12	https://www.omim.org/entry/608958
ADA2	22q11.1	https://www.omim.org/entry/607575
ADAM10	15q21.3	https://www.omim.org/entry/602192
ADAM17	2p25.1	
ADAM22	7q21.12	https://www.omim.org/entry/603709
ADAM9	8p11.22	https://www.omim.org/entry/602713
ADAMTS10	19p13.2	https://www.omim.org/entry/608990
ADAMTS13	9q34.2	https://www.omim.org/entry/604134
ADAMTS15	11q24.3	https://www.omim.org/entry/607509
ADAMTS17	15q26.3	https://www.omim.org/entry/607511
ADAMTS18	16q23.1	https://www.omim.org/entry/607512
ADAMTS19	5q23.3	https://www.omim.org/entry/607513
ADAMTS2	5q35.3	https://www.omim.org/entry/604539
ADAMTS3	4q13.3	https://www.omim.org/entry/605011
ADAMTS9	3p14.1	
ADAMTSL2	9q34.2	https://www.omim.org/entry/612277
ADAMTSL4	1q21.2	https://www.omim.org/entry/610113
ADAR	1q21.3	https://www.omim.org/entry/146920
ADARB1	21q22.3	https://www.omim.org/entry/601218
ADAT3	19p13.3	https://www.omim.org/entry/615302
ADCY10	1q24.2	

ADCY3	2p23.3	
ADCY5	3q21.1	https://www.omim.org/entry/600293
ADCY6	12q13.12	https://www.omim.org/entry/600294
ADD1	4p16.3	
ADD3	10q25.1-q25.	https://www.omim.org/entry/601568
ADGRE2	19p13.12	https://www.omim.org/entry/606100
ADGRG1	16q21	https://www.omim.org/entry/604110
ADGRG2	Xp22.13	https://www.omim.org/entry/300572
ADGRG6	6q24.2	https://www.omim.org/entry/612243
ADGRL1	19p13.12	https://www.omim.org/entry/616416
ADGRV1	5q14.3	https://www.omim.org/entry/602851
ADH5	4q23	https://www.omim.org/entry/103710
ADIPOQ	3q27.3	https://www.omim.org/entry/605441
ADIPOR1	1q32.1	
ADK	10q22.2	https://www.omim.org/entry/102750
ADNP	20q13.13	https://www.omim.org/entry/611386
ADORA2A	22q11.23	
ADPRS	1p34.3	https://www.omim.org/entry/610624
ADRB2	5q32	https://www.omim.org/entry/109690
ADSL	22q13.1	https://www.omim.org/entry/608222
ADSS1	14q32.33	https://www.omim.org/entry/612498
AEBP1	7p13	https://www.omim.org/entry/602981
AFF2	Xq28	https://www.omim.org/entry/300806
AFF3	2q11.2	https://www.omim.org/entry/601464
AFF4	5q31.1	https://www.omim.org/entry/604417
AFG2A	4q28.1	https://www.omim.org/entry/613940
AFG2B	15q21.1	https://www.omim.org/entry/619578
AFG3L2	18p11.21	https://www.omim.org/entry/604581
AFP	4q13.3	https://www.omim.org/entry/104150
AGA	4q34.3	https://www.omim.org/entry/613228
AGAP1	2q37.2	
AGBL1	15q25.3	https://www.omim.org/entry/615496
AGBL5	2p23.3	https://www.omim.org/entry/615900
AGK	7q34	https://www.omim.org/entry/610345
AGL	1p21.2	https://www.omim.org/entry/610860
AGMO	7p21.2	
AGO1	1p34.3	https://www.omim.org/entry/606228
AGO2	8q24.3	https://www.omim.org/entry/606229
AGPAT2	9q34.3	https://www.omim.org/entry/603100
AGPS	2q31.2	https://www.omim.org/entry/603051
AGR2	7p21.1	https://www.omim.org/entry/606358
AGRN	1p36.33	https://www.omim.org/entry/103320
AGT	1q42.2	https://www.omim.org/entry/106150
AGTPBP1	9q21.33	https://www.omim.org/entry/606830
AGTR1	3q24	https://www.omim.org/entry/106165
AGXT	2q37.3	https://www.omim.org/entry/604285
AHCY	20q11.22	https://www.omim.org/entry/180960
AHDC1	1p36.11-p35.	https://www.omim.org/entry/615790
AHI1	6q23.3	https://www.omim.org/entry/608894
AHR	7p21.1	https://www.omim.org/entry/600253

AICDA	12p13.31	https://www.omim.org/entry/605257
AIFM1	Xq26.1	https://www.omim.org/entry/300169
AIM2	1q23.1-q23.2	
AIMP1	4q24	https://www.omim.org/entry/603605
AIMP2	7p22.1	https://www.omim.org/entry/600859
AIP	11q13.2	https://www.omim.org/entry/605555
AIPL1	17p13.2	https://www.omim.org/entry/604392
AIRE	21q22.3	https://www.omim.org/entry/607358
AJAP1	1p36.32	
AK1	9q34.11	https://www.omim.org/entry/103000
AK2	1p35.1	https://www.omim.org/entry/103020
AK9	6q21	https://www.omim.org/entry/615358
AKAP3	12p13.32	https://www.omim.org/entry/604689
AKAP9	7q21.2	
AKR1C2	10p15.1	https://www.omim.org/entry/600450
AKR1D1	7q33	https://www.omim.org/entry/604741
AKT1	14q32.33	https://www.omim.org/entry/164730
AKT2	19q13.2	https://www.omim.org/entry/164731
AKT3	1q43-q44	https://www.omim.org/entry/611223
ALAD	9q32	https://www.omim.org/entry/125270
ALAS2	Xp11.21	https://www.omim.org/entry/301300
ALB	4q13.3	https://www.omim.org/entry/103600
ALDH18A1	10q24.1	https://www.omim.org/entry/138250
ALDH1A2	15q21.3	https://www.omim.org/entry/603687
ALDH1A3	15q26.3	https://www.omim.org/entry/600463
ALDH2	12q24.12	https://www.omim.org/entry/100650
ALDH3A2	17p11.2	https://www.omim.org/entry/609523
ALDH4A1	1p36.13	https://www.omim.org/entry/606811
ALDH5A1	6p22.3	https://www.omim.org/entry/610045
ALDH6A1	14q24.3	https://www.omim.org/entry/603178
ALDH7A1	5q23.2	https://www.omim.org/entry/107323
ALDOA	16p11.2	https://www.omim.org/entry/103850
ALDOB	9q31.1	https://www.omim.org/entry/612724
ALG1	16p13.3	https://www.omim.org/entry/605907
ALG11	13q14.3	https://www.omim.org/entry/613666
ALG12	22q13.33	https://www.omim.org/entry/607144
ALG13	Xq23	https://www.omim.org/entry/300776
ALG14	1p21.3	https://www.omim.org/entry/612866
ALG2	9q22.33	https://www.omim.org/entry/607905
ALG3	3q27.1	https://www.omim.org/entry/608750
ALG5	13q13.3	https://www.omim.org/entry/604565
ALG6	1p31.3	https://www.omim.org/entry/604566
ALG8	11q14.1	https://www.omim.org/entry/608103
ALG9	11q23.1	https://www.omim.org/entry/606941
ALK	2p23.2-p23.1	
ALKBH8	11q22.3	https://www.omim.org/entry/613306
ALMS1	2p13.1	https://www.omim.org/entry/606844
ALOX12B	17p13.1	https://www.omim.org/entry/603741
ALOXE3	17p13.1	https://www.omim.org/entry/607206
ALPI	2q37.1	

ALPK1	4q25	https://www.omim.org/entry/607347
ALPK3	15q25.3	https://www.omim.org/entry/617608
ALPL	1p36.12	https://www.omim.org/entry/171760
ALS2	2q33.1	https://www.omim.org/entry/606352
ALX1	12q21.31	https://www.omim.org/entry/601527
ALX3	1p13.3	https://www.omim.org/entry/606014
ALX4	11p11.2	https://www.omim.org/entry/605420
AMACR	5p13.2	https://www.omim.org/entry/604489
AMBN	4q13.3	https://www.omim.org/entry/601259
AMBRA1	11p11.2	
AMELX	Xp22.2	https://www.omim.org/entry/300391
AMER1	Xq11.2	https://www.omim.org/entry/300647
AMFR	16q13	https://www.omim.org/entry/603243
AMH	19p13.3	https://www.omim.org/entry/600957
AMHR2	12q13.13	https://www.omim.org/entry/600956
AMMECR1	Xq23	https://www.omim.org/entry/300195
AMN	14q32.32	https://www.omim.org/entry/605799
AMOTL1	11q21	
AMPD1	1p13.2	https://www.omim.org/entry/102770
AMPD2	1p13.3	https://www.omim.org/entry/102771
AMPD3	11p15.4	
AMT	3p21.31	https://www.omim.org/entry/238310
ANAPC1	2q13	https://www.omim.org/entry/608473
ANAPC7	12q24.11	https://www.omim.org/entry/606949
ANG	14q11.2	https://www.omim.org/entry/105850
ANGPT2	8p23.1	https://www.omim.org/entry/601922
ANGPTL3	1p31.3	https://www.omim.org/entry/604774
ANGPTL4	19p13.2	https://www.omim.org/entry/605910
ANGPTL6	19p13.2	
ANK1	8p11.21	https://www.omim.org/entry/612641
ANK2	4q25-q26	https://www.omim.org/entry/106410
ANK3	10q21.2	https://www.omim.org/entry/600465
ANKH	5p15.2	https://www.omim.org/entry/605145
ANKLE2	12q24.33	https://www.omim.org/entry/616062
ANKRD1	10q23.31	
ANKRD11	16q24.3	https://www.omim.org/entry/611192
ANKRD17	4q13.3	https://www.omim.org/entry/615929
ANKRD26	10p12.1	https://www.omim.org/entry/610855
ANKRD31	5q13.3	
ANKS1B	12q23.1	
ANKS6	9q22.33	https://www.omim.org/entry/615370
ANKZF1	2q35	
ANLN	7p14.2	https://www.omim.org/entry/616027
ANO1	11q13.3	https://www.omim.org/entry/610108
ANO10	3p22.1-p21.3	https://www.omim.org/entry/613726
ANO3	11p14.2	https://www.omim.org/entry/610110
ANO4	12q23.1	
ANO5	11p14.3	https://www.omim.org/entry/608662
ANO6	12q12	https://www.omim.org/entry/608663
ANOS1	Xp22.31	https://www.omim.org/entry/300836

ANTXR1	2p13.3	https://www.omim.org/entry/606410
ANTXR2	4q21.21	https://www.omim.org/entry/608041
ANXA11	10q22.3	https://www.omim.org/entry/602572
AOPEP	9q22.32	https://www.omim.org/entry/619600
AP1B1	22q12.2	https://www.omim.org/entry/600157
AP1G1	16q22.2	https://www.omim.org/entry/603533
AP1S1	7q22.1	https://www.omim.org/entry/603531
AP1S2	Xp22.2	https://www.omim.org/entry/300629
AP1S3	2q36.1	
AP2M1	3q27.1	https://www.omim.org/entry/601024
AP2S1	19q13.32	https://www.omim.org/entry/602242
AP3B1	5q14.1	https://www.omim.org/entry/603401
AP3B2	15q25.2	https://www.omim.org/entry/602166
AP3D1	19p13.3	
AP4B1	1p13.2	https://www.omim.org/entry/607245
AP4E1	15q21.2	https://www.omim.org/entry/607244
AP4M1	7q22.1	https://www.omim.org/entry/602296
AP4S1	14q12	https://www.omim.org/entry/607243
AP5Z1	7p22.1	https://www.omim.org/entry/613653
APC	5q22.2	https://www.omim.org/entry/611731
APC2	19p13.3	https://www.omim.org/entry/612034
APCDD1	18p11.22	https://www.omim.org/entry/607479
APEX1	14q11.2	
APOA1	11q23.3	https://www.omim.org/entry/107680
APOA2	1q23.3	https://www.omim.org/entry/107670
APOA4	11q23.3	
APOA5	11q23.3	https://www.omim.org/entry/606368
APOB	2p24.1	https://www.omim.org/entry/107730
APOC2	19q13.32	https://www.omim.org/entry/608083
APOC3	11q23.3	https://www.omim.org/entry/107720
APOE	19q13.32	https://www.omim.org/entry/107741
APOL1	22q12.3	
APP	21q21.3	https://www.omim.org/entry/104760
APPL1	3p14.3	
APRT	16q24.3	https://www.omim.org/entry/102600
APT X	9p21.1	https://www.omim.org/entry/606350
AQP1	7p14.3	
AQP2	12q13.12	https://www.omim.org/entry/107777
AQP5	12q13.12	https://www.omim.org/entry/600442
AR	Xq12	https://www.omim.org/entry/313700
ARCN1	11q23.3	https://www.omim.org/entry/600820
ARF1	1q42.13	https://www.omim.org/entry/103180
ARF3	12q13.12	
ARFGEF1	8q13.2	https://www.omim.org/entry/604141
ARFGEF2	20q13.13	https://www.omim.org/entry/605371
ARFGEF3	6q23.3-q24.1	
ARG1	6q23.2	https://www.omim.org/entry/608313
ARHGAP26	5q31.3	https://www.omim.org/entry/605370
ARHGAP29	1p22.1	
ARHGAP31	3q13.32-q13.	https://www.omim.org/entry/610911

ARHGAP32	11q24.3	
ARHGAP35	19q13.32	
ARHGDIA	17q25.3	https://www.omim.org/entry/601925
ARHGEF1	19q13.2	
ARHGEF10	8p23.3	
ARHGEF18	19p13.2	https://www.omim.org/entry/616432
ARHGEF28	5q13.2	
ARHGEF9	Xq11.1	https://www.omim.org/entry/300429
ARID1A	1p36.11	https://www.omim.org/entry/603024
ARID1B	6q25.3	https://www.omim.org/entry/614556
ARID2	12q12	https://www.omim.org/entry/609539
ARIH1	15q24.1	
ARL11	13q14.2	
ARL13B	3q11.1-q11.2	https://www.omim.org/entry/608922
ARL2BP	16q13	https://www.omim.org/entry/615407
ARL3	10q24.32	https://www.omim.org/entry/604695
ARL6	3q11.2	https://www.omim.org/entry/608845
ARL6IP1	16p12.3	https://www.omim.org/entry/607669
ARMC12	6p21.31	https://www.omim.org/entry/620377
ARMC2	6q21	https://www.omim.org/entry/618424
ARMC5	16p11.2	
ARMC9	2q37.1	https://www.omim.org/entry/617612
ARPC1B	7q22.1	https://www.omim.org/entry/604223
ARPC4	3p25.3	https://www.omim.org/entry/604226
ARPC5	1q25.3	https://www.omim.org/entry/604227
ARR3	Xq13.1	https://www.omim.org/entry/301770
ARSA	22q13.33	https://www.omim.org/entry/607574
ARSB	5q14.1	https://www.omim.org/entry/611542
ARSG	17q24.2	https://www.omim.org/entry/610008
ARSK	5q15	https://www.omim.org/entry/610011
ARSL	Xp22.33	https://www.omim.org/entry/300180
ARV1	1q42.2	https://www.omim.org/entry/611647
ARX	Xp21.3	https://www.omim.org/entry/300382
ASAH1	8p22	https://www.omim.org/entry/613468
ASB10	7q36.1	https://www.omim.org/entry/615054
ASCC1	10q22.1	https://www.omim.org/entry/614215
ASCC3	6q16.3	https://www.omim.org/entry/614217
ASH1L	1q22	https://www.omim.org/entry/607999
ASL	7q11.21	https://www.omim.org/entry/608310
ASMT	Xp22.3 and Yp11.3	
ASNS	7q21.3	https://www.omim.org/entry/108370
ASPA	17p13.2	https://www.omim.org/entry/608034
ASPH	8q12.3	https://www.omim.org/entry/600582
ASPM	1q31.3	https://www.omim.org/entry/605481
ASPRV1	2p13.3	https://www.omim.org/entry/611765
ASPSR1	17q25.3	https://www.omim.org/entry/606236
ASS1	9q34.11	https://www.omim.org/entry/603470
ASTN1	1q25.2	
ASXL1	20q11.21	https://www.omim.org/entry/612990
ASXL2	2p23.3	https://www.omim.org/entry/612991

ASXL3	18q12.1	https://www.omim.org/entry/615115
ATAD1	10q23.31	https://www.omim.org/entry/614452
ATAD3A	1p36.33	https://www.omim.org/entry/612316
ATCAY	19p13.3	https://www.omim.org/entry/608179
ATF6	1q23.3	https://www.omim.org/entry/605537
ATG4D	19p13.2	
ATG7	3p25.3	https://www.omim.org/entry/608760
ATIC	2q35	https://www.omim.org/entry/601731
ATL1	14q22.1	https://www.omim.org/entry/606439
ATL3	11q13.1	https://www.omim.org/entry/609369
ATM	11q22.3	https://www.omim.org/entry/607585
ATN1	12p13.31	https://www.omim.org/entry/607462
ATOH7	10q21.3	https://www.omim.org/entry/609875
ATP10B	5q34	
ATP11A	13q34	https://www.omim.org/entry/605868
ATP13A2	1p36.13	https://www.omim.org/entry/610513
ATP13A3	3q29	https://www.omim.org/entry/610232
ATP1A1	1p13.1	https://www.omim.org/entry/182310
ATP1A2	1q23.2	https://www.omim.org/entry/182340
ATP1A3	19q13.2	https://www.omim.org/entry/182350
ATP2A1	16p11.2	https://www.omim.org/entry/108730
ATP2A2	12q24.11	https://www.omim.org/entry/108740
ATP2A3	17p13.2	
ATP2B1	12q21.33	https://www.omim.org/entry/108731
ATP2B2	3p25.3	https://www.omim.org/entry/108733
ATP2B3	Xq28	
ATP2C1	3q22.1	https://www.omim.org/entry/604384
ATP5F1A	18q21.1	https://www.omim.org/entry/164360
ATP5F1D	19p13.3	https://www.omim.org/entry/603150
ATP5F1E	20q13.32	https://www.omim.org/entry/606153
ATP5MC3	2q31.1	https://www.omim.org/entry/602736
ATP5MK	10q24.33	https://www.omim.org/entry/615204
ATP5PO	21q22.11	https://www.omim.org/entry/600828
ATP6AP1	Xq28	https://www.omim.org/entry/300197
ATP6AP2	Xp11.4	https://www.omim.org/entry/300556
ATP6V0A1	17q21.2	https://www.omim.org/entry/192130
ATP6V0A2	12q24.31	https://www.omim.org/entry/611716
ATP6V0A4	7q34	https://www.omim.org/entry/605239
ATP6V0C	16p13.3	https://www.omim.org/entry/108745
ATP6V1A	3q13.31	https://www.omim.org/entry/607027
ATP6V1B1	2p13.3	https://www.omim.org/entry/192132
ATP6V1B2	8p21.3	https://www.omim.org/entry/606939
ATP6V1E1	22q11.21	https://www.omim.org/entry/108746
ATP7A	Xq21.1	https://www.omim.org/entry/300011
ATP7B	13q14.3	https://www.omim.org/entry/606882
ATP8A2	13q12.13	https://www.omim.org/entry/605870
ATP8B1	18q21.31	https://www.omim.org/entry/602397
ATP9A	20q13.2	https://www.omim.org/entry/609126
ATPAF2	17p11.2	
ATR	3q23	https://www.omim.org/entry/601215

ATRX	Xq21.1	https://www.omim.org/entry/300032
ATXN1	6p22.3	https://www.omim.org/entry/601556
ATXN10	22q13.31	https://www.omim.org/entry/611150
ATXN2	12q24.12	https://www.omim.org/entry/601517
ATXN3	14q32.12	https://www.omim.org/entry/607047
ATXN7	3p14.1	https://www.omim.org/entry/607640
ATXN7L3	17q21.31	
ATXN8OS	13q21.33	https://www.omim.org/entry/603680
AUH	9q22.31	https://www.omim.org/entry/600529
AURKC	19q13.43	https://www.omim.org/entry/603495
AUTS2	7q11.22	https://www.omim.org/entry/607270
AVIL	12q14.1	https://www.omim.org/entry/613397
AVP	20p13	https://www.omim.org/entry/192340
AVPR2	Xq28	https://www.omim.org/entry/300538
AXIN1	16p13.3	https://www.omim.org/entry/603816
AXIN2	17q24.1	https://www.omim.org/entry/604025
AXL	19q13.2	
B2M	15q21.1	https://www.omim.org/entry/109700
B3GALNT1	3q26.1	
B3GALNT2	1q42.3	https://www.omim.org/entry/610194
B3GALT6	1p36.33	https://www.omim.org/entry/615291
B3GAT3	11q12.3	https://www.omim.org/entry/606374
B3GLCT	13q12.3	https://www.omim.org/entry/610308
B4GALNT1	12q13.3	https://www.omim.org/entry/601873
B4GALNT2	17q21.32	https://www.omim.org/entry/111730
B4GALT1	9p21.1	https://www.omim.org/entry/137060
B4GALT7	5q35.3	https://www.omim.org/entry/604327
B4GAT1	11q13.2	https://www.omim.org/entry/605517
B9D1	17p11.2	https://www.omim.org/entry/614144
B9D2	19q13.2	https://www.omim.org/entry/611951
BAAT	9q31.1	https://www.omim.org/entry/602938
BACH2	6q15	https://www.omim.org/entry/605394
BAG3	10q26.11	https://www.omim.org/entry/603883
BAG5	14q32.33	https://www.omim.org/entry/603885
BANF1	11q13.1	https://www.omim.org/entry/603811
BAP1	3p21.1	https://www.omim.org/entry/603089
BARD1	2q35	
BAX	19q13.33	https://www.omim.org/entry/600040
BAZ2B	2q24.2	
BBIP1	10q25.2	https://www.omim.org/entry/613605
BBS1	11q13.2	https://www.omim.org/entry/209901
BBS10	12q21.2	https://www.omim.org/entry/610148
BBS12	4q27	https://www.omim.org/entry/610683
BBS2	16q13	https://www.omim.org/entry/606151
BBS4	15q24.1	https://www.omim.org/entry/600374
BBS5	2q31.1	https://www.omim.org/entry/603650
BBS7	4q27	https://www.omim.org/entry/607590
BBS9	7p14.3	https://www.omim.org/entry/607968
BCAP31	Xq28	https://www.omim.org/entry/300398
BCAS3	17q23.2	https://www.omim.org/entry/607470

BCAT2	19q13.33	https://www.omim.org/entry/113530
BCHE	3q26.1	https://www.omim.org/entry/177400
BCKDHA	19q13.2	https://www.omim.org/entry/608348
BCKDHB	6q14.1	https://www.omim.org/entry/248611
BCKDK	16p11.2	https://www.omim.org/entry/614901
BCL10	1p22.3	https://www.omim.org/entry/603517
BCL11A	2p16.1	https://www.omim.org/entry/606557
BCL11B	14q32.2	https://www.omim.org/entry/606558
BCL2	18q21.33	https://www.omim.org/entry/151430
BCL6	3q27.3	
BCOR	Xp11.4	https://www.omim.org/entry/300485
BCORL1	Xq26.1	https://www.omim.org/entry/300688
BCR	22q11.23	
BCS1L	2q35	https://www.omim.org/entry/603647
BEAN1	16q21	https://www.omim.org/entry/612051
BEST1	11q12.3	https://www.omim.org/entry/607854
BET1	7q21.3	https://www.omim.org/entry/605456
BFSP1	20p12.1	https://www.omim.org/entry/603307
BFSP2	3q22.1	https://www.omim.org/entry/603212
BGN	Xq28	https://www.omim.org/entry/301870
BHLHA9	17p13.3	https://www.omim.org/entry/615416
BHLHE22	8q12.3	
BICC1	10q21.1	
BICD2	9q22.31	https://www.omim.org/entry/609797
BICRA	19q13.33	https://www.omim.org/entry/605690
BIN1	2q14.3	https://www.omim.org/entry/601248
BIRC3	11q22.2	
BLK	8p23.1	https://www.omim.org/entry/191305
BLM	15q26.1	https://www.omim.org/entry/604610
BLNK	10q24.1	
BLOC1S1	12q13.2	
BLOC1S3	19q13.32	https://www.omim.org/entry/609762
BLOC1S5	6p24.3	https://www.omim.org/entry/607289
BLOC1S6	15q21.1	https://www.omim.org/entry/604310
BLTP1	4q27	https://www.omim.org/entry/611565
BLVRA	7p13	https://www.omim.org/entry/109750
BMP1	8p21.3	https://www.omim.org/entry/112264
BMP15	Xp11.22	https://www.omim.org/entry/300247
BMP2	20p12.3	https://www.omim.org/entry/112261
BMP4	14q22.2	https://www.omim.org/entry/112262
BMP6	6p24.3	
BMP7	20q13.31	
BMPER	7p14.3	https://www.omim.org/entry/608699
BMPR1A	10q23.2	https://www.omim.org/entry/601299
BMPR1B	4q22.3	https://www.omim.org/entry/603248
BMPR2	2q33.1-q33.2	https://www.omim.org/entry/600799
BNC1	15q25.2	
BNC2	9p22.3-p22.2	https://www.omim.org/entry/608669
BOD1	5q35.2	
BOLA3	2p13.1	https://www.omim.org/entry/613183

BORCS8	19p13.11	https://www.omim.org/entry/616601
BPGM	7q33	https://www.omim.org/entry/613896
BPNT2	8q12.1	https://www.omim.org/entry/614010
BPTF	17q24.2	https://www.omim.org/entry/601819
BRAF	7q34	https://www.omim.org/entry/164757
BRAT1	7p22.3	https://www.omim.org/entry/614506
BRCA1	17q21.31	https://www.omim.org/entry/113705
BRCA2	13q13.1	https://www.omim.org/entry/600185
BRD4	19p13.12	https://www.omim.org/entry/608749
BRF1	14q32.33	https://www.omim.org/entry/604902
BRIP1	17q23.2	https://www.omim.org/entry/605882
BRPF1	3p25.3	https://www.omim.org/entry/602410
BRSK2	11p15.5	
BRWD1	21q22.2	https://www.omim.org/entry/617824
BRWD3	Xq21.1	https://www.omim.org/entry/300553
BSCL2	11q12.3	https://www.omim.org/entry/606158
BSN	3p21.31	
BSND	1p32.3	https://www.omim.org/entry/606412
BTB	3p25.1	https://www.omim.org/entry/609019
BTG4	11q23.1	https://www.omim.org/entry/605673
BTK	Xq22.1	https://www.omim.org/entry/300300
BTLA	3q13.2	
BUB1	2q13	https://www.omim.org/entry/602452
BUB1B	15q15.1	https://www.omim.org/entry/602860
BUB3	10q26.13	
BUD13	11q23.3	
BVES	6q21	
C10orf71	10q11.23	
C12orf57	12p13.31	https://www.omim.org/entry/615140
C14orf39	14q23.1	https://www.omim.org/entry/617307
C19orf12	19q12	https://www.omim.org/entry/614297
C1GALT1C1	Xq24	https://www.omim.org/entry/300611
C1QA	1p36.12	https://www.omim.org/entry/120550
C1QB	1p36.12	https://www.omim.org/entry/120570
C1QBP	17p13.2	https://www.omim.org/entry/601269
C1QC	1p36.12	https://www.omim.org/entry/120575
C1QTNF5	11q23.3	https://www.omim.org/entry/608752
C1R	12p13.31	https://www.omim.org/entry/613785
C1S	12p13.31	https://www.omim.org/entry/120580
C2	6p21.33	https://www.omim.org/entry/613927
C2CD3	11q13.4	https://www.omim.org/entry/615944
C2orf69	2q33.1	https://www.omim.org/entry/619219
C3	19p13.3	https://www.omim.org/entry/120700
C3orf52	3q13.2	https://www.omim.org/entry/611956
C4A	6p21.33	https://www.omim.org/entry/120810
C4B	6p21.33	https://www.omim.org/entry/120820
C5	9q33.2	https://www.omim.org/entry/120900
C6	5p13.1	https://www.omim.org/entry/217050
C7	5p13.1	https://www.omim.org/entry/217070
C8A	1p32.2	https://www.omim.org/entry/120950

C8B	1p32.2	https://www.omim.org/entry/120960
C8G	9q34.3	
C9	5p13.1	https://www.omim.org/entry/120940
C9orf72	9p21.2	https://www.omim.org/entry/614260
CA12	15q22.2	https://www.omim.org/entry/603263
CA2	8q21.2	https://www.omim.org/entry/611492
CA4	17q23.1	
CA5A	16q24.2	https://www.omim.org/entry/114761
CA8	8q12.1	https://www.omim.org/entry/114815
CABIN1	22q11.23	
CABP2	11q13.2	https://www.omim.org/entry/607314
CABP4	11q13.2	https://www.omim.org/entry/608965
CACHD1	1p31.3	
CACNA1A	19p13.13	https://www.omim.org/entry/601011
CACNA1B	9q34.3	https://www.omim.org/entry/601012
CACNA1C	12p13.33	https://www.omim.org/entry/114205
CACNA1D	3p21.1	https://www.omim.org/entry/114206
CACNA1E	1q25.3	https://www.omim.org/entry/601013
CACNA1F	Xp11.23	https://www.omim.org/entry/300110
CACNA1G	17q21.33	https://www.omim.org/entry/604065
CACNA1H	16p13.3	https://www.omim.org/entry/607904
CACNA1I	22q13.1	https://www.omim.org/entry/608230
CACNA1S	1q32.1	https://www.omim.org/entry/114208
CACNA2D1	7q21.11	https://www.omim.org/entry/114204
CACNA2D2	3p21.31	https://www.omim.org/entry/607082
CACNA2D4	12p13.33	https://www.omim.org/entry/608171
CACNB2	10p12	https://www.omim.org/entry/600003
CACNB4	2q23.3	
CAD	2p23.3	https://www.omim.org/entry/114010
CADM3	1q23.2	https://www.omim.org/entry/609743
CALM1	14q32.11	https://www.omim.org/entry/114180
CALM2	2p21	https://www.omim.org/entry/114182
CALM3	19q13.32	https://www.omim.org/entry/114183
CALR	19p13.13	https://www.omim.org/entry/109091
CAMK2A	5q32	https://www.omim.org/entry/114078
CAMK2B	7p13	https://www.omim.org/entry/607707
CAMK2D	4q26	
CAMK2G	10q22.2	https://www.omim.org/entry/602123
CAMK4	5q22.1	
CAMSAP1	9q34.3	https://www.omim.org/entry/613774
CAMTA1	1p36.31-p36.	https://www.omim.org/entry/611501
CANT1	17q25.3	https://www.omim.org/entry/613165
CAP2	6p22.3	https://www.omim.org/entry/618385
CAPN1	11q13.1	https://www.omim.org/entry/114220
CAPN10	2q37.3	
CAPN15	16p13.3	https://www.omim.org/entry/603267
CAPN3	15q15.1	https://www.omim.org/entry/114240
CAPN5	11q13.5	https://www.omim.org/entry/602537
CAPNS1	19q13.12	https://www.omim.org/entry/114170
CAPRIN1	11p13	https://www.omim.org/entry/601178

CARD11	7p22.2	https://www.omim.org/entry/607210
CARD14	17q25.3	https://www.omim.org/entry/607211
CARD9	9q34.3	https://www.omim.org/entry/607212
CARMIL2	16q22.1	https://www.omim.org/entry/610859
CARS1	11p15.4	https://www.omim.org/entry/123859
CARS2	13q34	https://www.omim.org/entry/612800
CASK	Xp11.4	https://www.omim.org/entry/300172
CASP1	11q22.3	
CASP10	2q33.1	https://www.omim.org/entry/601762
CASP14	19p13.12	https://www.omim.org/entry/605848
CASP2	7q34	https://www.omim.org/entry/600639
CASP3	4q35.1	
CASP8	2q33.1	https://www.omim.org/entry/601763
CASQ1	1q23.2	https://www.omim.org/entry/114250
CASQ2	1p13.1	https://www.omim.org/entry/114251
CASR	3q13.33-q21.	https://www.omim.org/entry/601199
CAST	5q15	https://www.omim.org/entry/114090
CASZ1	1p36.22	
CAT	11p13	https://www.omim.org/entry/115500
CATSPER1	11q13.1	https://www.omim.org/entry/606389
CAV1	7q31.2	https://www.omim.org/entry/601047
CAV3	3p25.3	https://www.omim.org/entry/601253
CAVIN1	17q21.2	https://www.omim.org/entry/603198
CAVIN4	9q31.1	
CBFB	16q22.1	https://www.omim.org/entry/121360
CBL	11q23.3	https://www.omim.org/entry/165360
CBLB	3q13.11	https://www.omim.org/entry/604491
CBLIF	11q12.1	https://www.omim.org/entry/609342
CBS	21q22.3	https://www.omim.org/entry/613381
CBX1	17q21.32	
CBY1	22q13.1	
CC2D1A	19p13.12	https://www.omim.org/entry/610055
CC2D2A	4p15.32	https://www.omim.org/entry/612013
CCBE1	18q21.32	https://www.omim.org/entry/612753
CCDC103	17q21.31	
CCDC115	2q21.1	https://www.omim.org/entry/613734
CCDC134	22q13.2	https://www.omim.org/entry/618788
CCDC146	7q11.23	https://www.omim.org/entry/619829
CCDC174	3p25.1	https://www.omim.org/entry/616735
CCDC22	Xp11.23	https://www.omim.org/entry/300859
CCDC32	15q15.1	https://www.omim.org/entry/618941
CCDC34	11p14.1	https://www.omim.org/entry/612324
CCDC39	3q26.33	https://www.omim.org/entry/613798
CCDC40	17q25.3	https://www.omim.org/entry/613799
CCDC47	17q23.3	https://www.omim.org/entry/618260
CCDC50	3q28	
CCDC6	10q21.2	
CCDC65	12q13.12	https://www.omim.org/entry/611088
CCDC78	16p13.3	
CCDC8	19q13.32	https://www.omim.org/entry/614145

CCDC82	11q21	
CCDC88A	2p16.1	
CCDC88C	14q32.11-q33	https://www.omim.org/entry/611204
CCIN	9p13.3	https://www.omim.org/entry/603960
CCL2	17q12	
CCL5	17q12	
CCM2	7p13	https://www.omim.org/entry/607929
CCN6	6q21	https://www.omim.org/entry/603400
CCND1	11q13.3	
CCND2	12p13.32	https://www.omim.org/entry/123833
CCNF	16p13.3	https://www.omim.org/entry/600227
CCNO	5q11.2	https://www.omim.org/entry/607752
CCNQ	Xq28	https://www.omim.org/entry/300708
CCR2	3p21.31	https://www.omim.org/entry/601267
CCR5	3p21.31	
CCT5	5p15.2	
CD14	5q31.3	
CD151	11p15.5	https://www.omim.org/entry/602243
CD160	1q21.1	
CD163	12p13.31	
CD164	6q21	
CD19	16p11.2	https://www.omim.org/entry/107265
CD2	1p13.1	
CD244	1q23.3	
CD247	1q24.2	
CD27	12p13.31	https://www.omim.org/entry/186711
CD274	9p24.1	
CD28	2q33.2	
CD2AP	6p12.3	https://www.omim.org/entry/604241
CD320	19p13.2	https://www.omim.org/entry/606475
CD36	7q21.11	https://www.omim.org/entry/173510
CD38	4p15.32	
CD3D	11q23.3	https://www.omim.org/entry/186790
CD3E	11q23.3	https://www.omim.org/entry/186830
CD3G	11q23.3	https://www.omim.org/entry/186740
CD4	12p13.31	https://www.omim.org/entry/186940
CD40	20q13.12	https://www.omim.org/entry/109535
CD40LG	Xq26.3	https://www.omim.org/entry/300386
CD46	1q32.2	
CD55	1q32.2	https://www.omim.org/entry/125240
CD59	11p13	https://www.omim.org/entry/107271
CD70	19p13.3	https://www.omim.org/entry/602840
CD79A	19q13.2	https://www.omim.org/entry/112205
CD79B	17q23.3	https://www.omim.org/entry/147245
CD80	3q13.33	
CD81	11p15.5	https://www.omim.org/entry/186845
CD86	3q13.33	
CD8A	2p11.2	https://www.omim.org/entry/186910
CD8B	2p11.2	
CD96	3q13.13-q13	https://www.omim.org/entry/606037

CDAN1	15q15.2	https://www.omim.org/entry/607465
CDC14A	1p21.2	https://www.omim.org/entry/603504
CDC20	1p34.2	https://www.omim.org/entry/603618
CDC23	5q31.2	
CDC42	1p36.12	https://www.omim.org/entry/116952
CDC42BPB	14q32.32	https://www.omim.org/entry/614062
CDC45	22q11.21	https://www.omim.org/entry/603465
CDC6	17q21.2	
CDC73	1q31.2	https://www.omim.org/entry/607393
CDCA7	2q31.1	https://www.omim.org/entry/609937
CDCA8	1p34.3	
CDH1	16q22.1	https://www.omim.org/entry/192090
CDH11	16q21	https://www.omim.org/entry/600023
CDH15	16q24.3	https://www.omim.org/entry/114019
CDH2	18q12.1	https://www.omim.org/entry/114020
CDH23	10q22.1	https://www.omim.org/entry/605516
CDH3	16q22.1	https://www.omim.org/entry/114021
CDHR1	10q23.1	https://www.omim.org/entry/609502
CDIN1	15q14	https://www.omim.org/entry/615626
CDK10	16q24.3	https://www.omim.org/entry/603464
CDK13	7p14.1	https://www.omim.org/entry/603309
CDK16	Xp11.3	
CDK19	6q21	https://www.omim.org/entry/614720
CDK4	12q14.1	
CDK5RAP2	9q33.2	https://www.omim.org/entry/608201
CDK6	7q21.2	
CDK8	13q12.13	https://www.omim.org/entry/603184
CDK9	9q34.11	
CDKL5	Xp22.13	https://www.omim.org/entry/300203
CDKN1B	12p13.1	https://www.omim.org/entry/600778
CDKN1C	11p15.4	https://www.omim.org/entry/600856
CDKN2A	9p21.3	
CDKN2B	9p21.3	
CDON	11q24.2	https://www.omim.org/entry/608707
CDSN	6p21.33	https://www.omim.org/entry/602593
CDT1	16q24.3	https://www.omim.org/entry/605525
CDX1	5q32	
CDX2	13q12.2	
CEACAM16	19q13.31-q13.32	https://www.omim.org/entry/614591
CEBPA	19q13.11	https://www.omim.org/entry/116897
CEBPE	14q11.2	https://www.omim.org/entry/600749
CEL	9q34.13	https://www.omim.org/entry/114840
CELA2A	1p36.21	https://www.omim.org/entry/609443
CELA3B	1p36.12	
CELF2	10p14	https://www.omim.org/entry/602538
CELSR1	22q13.31	https://www.omim.org/entry/604523
CELSR2	1p13.3	
CELSR3	3p21.31	
CEMIP	15q25.1	
CENPE	4q24	

CENPF	1q41	https://www.omim.org/entry/600236
CENPJ	13q12.12-q12.13	
CEP104	1p36.32	https://www.omim.org/entry/616690
CEP112	17q24.1	https://www.omim.org/entry/618980
CEP120	5q23.2	https://www.omim.org/entry/613446
CEP135	4q12	https://www.omim.org/entry/611423
CEP152	15q21.1	https://www.omim.org/entry/613529
CEP164	11q23.3	https://www.omim.org/entry/614848
CEP19	3q29	https://www.omim.org/entry/615586
CEP250	20q11.22	https://www.omim.org/entry/609689
CEP290	12q21.32	https://www.omim.org/entry/610142
CEP295	11q21	https://www.omim.org/entry/617728
CEP41	7q32.2	https://www.omim.org/entry/610523
CEP55	10q23.33	https://www.omim.org/entry/610000
CEP57	11q21	https://www.omim.org/entry/607951
CEP63	3q22.2	
CEP76	18p11.21	
CEP78	9q21.2	https://www.omim.org/entry/617110
CEP83	12q22	https://www.omim.org/entry/615847
CEP85L	6q22.31	https://www.omim.org/entry/618865
CERKL	2q31.3	https://www.omim.org/entry/608381
CERS1	19p13.11	https://www.omim.org/entry/606919
CERS3	15q26.3	https://www.omim.org/entry/615276
CERT1	5q13.3	https://www.omim.org/entry/604677
CES1	16q12.2	https://www.omim.org/entry/114835
CETP	16q13	https://www.omim.org/entry/118470
CFAP20	16q21	
CFAP251	12q24.31	https://www.omim.org/entry/618146
CFAP298	21q22.11	https://www.omim.org/entry/615494
CFAP300	11q22.1	https://www.omim.org/entry/618058
CFAP410	21q22.3	https://www.omim.org/entry/603191
CFAP418	8q22.1	https://www.omim.org/entry/614477
CFAP43	10q25.1	https://www.omim.org/entry/617558
CFAP44	3q13.2	https://www.omim.org/entry/617559
CFAP45	1q23.2	https://www.omim.org/entry/605152
CFAP47	Xp21.1	https://www.omim.org/entry/301057
CFAP52	17p13.1	https://www.omim.org/entry/609804
CFAP53	18q21.1	https://www.omim.org/entry/614759
CFAP57	1p34.2	https://www.omim.org/entry/614259
CFAP58	10q25.1	https://www.omim.org/entry/619129
CFAP61	20p11.23	https://www.omim.org/entry/620381
CFAP65	2q35	https://www.omim.org/entry/614270
CFAP69	7q21.13	https://www.omim.org/entry/617949
CFAP74	1p36.33	https://www.omim.org/entry/620187
CFAP91	3q13.33	https://www.omim.org/entry/609910
CFB	6p21.33	
CFC1	2q21.1	https://www.omim.org/entry/605194
CFD	19p13.3	https://www.omim.org/entry/134350
CFH	1q31.3	https://www.omim.org/entry/134370
CFHR1	1q31.3	

CFHR2	1q31.3	
CFHR3	1q31.3	
CFHR4	1q31.3	
CFHR5	1q31.3	https://www.omim.org/entry/608593
CFI	4q25	https://www.omim.org/entry/217030
CFL2	14q13.1	https://www.omim.org/entry/601443
CFP	Xp11.23	https://www.omim.org/entry/300383
CFTR	7q31.2	https://www.omim.org/entry/602421
CHAMP1	13q34	https://www.omim.org/entry/616327
CHAT	10q11.23	https://www.omim.org/entry/118490
CHCHD10	22q11.23	https://www.omim.org/entry/615903
CHCHD2	7p11.2	https://www.omim.org/entry/616244
CHD1	5q15-q21.1	https://www.omim.org/entry/602118
CHD1L	1q21.1	
CHD2	15q26.1	https://www.omim.org/entry/602119
CHD3	17p13.1	https://www.omim.org/entry/602120
CHD4	12p13.31	https://www.omim.org/entry/603277
CHD5	1p36.31	https://www.omim.org/entry/610771
CHD7	8q12.2	https://www.omim.org/entry/608892
CHD8	14q11.2	https://www.omim.org/entry/610528
CHEK1	11q24.2	https://www.omim.org/entry/603078
CHEK2	22q12.1	https://www.omim.org/entry/604373
CHKA	11q13.2	https://www.omim.org/entry/118491
CHKB	22q13.33	https://www.omim.org/entry/612395
CHM	Xq21.2	https://www.omim.org/entry/300390
CHMP1A	16q24.3	https://www.omim.org/entry/164010
CHMP2B	3p11.2	https://www.omim.org/entry/609512
CHMP4B	20q11.22	https://www.omim.org/entry/610897
CHN1	2q31.1	https://www.omim.org/entry/118423
CHP1	15q15.1	
CHRD1	Xq23	https://www.omim.org/entry/300350
CHRM3	1q43	https://www.omim.org/entry/118494
CHRNA1	2q31.1	https://www.omim.org/entry/100690
CHRNA2	8p21.2	https://www.omim.org/entry/118502
CHRNA3	15q25.1	https://www.omim.org/entry/118503
CHRNA4	20q13.33	https://www.omim.org/entry/118504
CHRNA5	17p13.1	https://www.omim.org/entry/100710
CHRNA6	1q21.3	https://www.omim.org/entry/118507
CHRNA7	2q37.1	https://www.omim.org/entry/100720
CHRNA8	17p13.2	https://www.omim.org/entry/100725
CHRNA9	2q37.1	https://www.omim.org/entry/100730
CHST14	15q15.1	https://www.omim.org/entry/608429
CHST3	10q22.1	https://www.omim.org/entry/603799
CHST6	16q23.1	https://www.omim.org/entry/605294
CHSY1	15q26.3	https://www.omim.org/entry/608183
CHUK	10q24.31	
CIAO1	2q11.2	https://www.omim.org/entry/604333
CIB1	15q26.1	
CIB2	15q25.1	https://www.omim.org/entry/605564
CIC	19q13.2	https://www.omim.org/entry/612082

CIITA	16p13.13	https://www.omim.org/entry/600005
CLIK1	6p12.1	https://www.omim.org/entry/612325
CIROP	14q11.2	https://www.omim.org/entry/619703
CISD2	4q24	https://www.omim.org/entry/611507
CIT	12q24.23	https://www.omim.org/entry/605629
CITED2	6q24.1	https://www.omim.org/entry/602937
CKAP2L	2q14.1	https://www.omim.org/entry/616174
CLASP1	2q14.2-q14.3	
CLCC1	1p13.3	https://www.omim.org/entry/617539
CLCF1	11q13.2	https://www.omim.org/entry/607672
CLCN1	7q34	https://www.omim.org/entry/118425
CLCN2	3q27.1	https://www.omim.org/entry/600570
CLCN3	4q33	https://www.omim.org/entry/600580
CLCN4	Xp22.2	https://www.omim.org/entry/302910
CLCN5	Xp11.23	https://www.omim.org/entry/300008
CLCN6	1p36.22	https://www.omim.org/entry/602726
CLCN7	16p13.3	https://www.omim.org/entry/602727
CLCNKA	1p36.13	https://www.omim.org/entry/602024
CLCNKB	1p36.13	https://www.omim.org/entry/602023
CLDN1	3q28	https://www.omim.org/entry/603718
CLDN10	13q32.1	https://www.omim.org/entry/617579
CLDN11	3q26.2	https://www.omim.org/entry/601326
CLDN14	21q22.13	https://www.omim.org/entry/605608
CLDN16	3q28	https://www.omim.org/entry/603959
CLDN19	1p34.2	https://www.omim.org/entry/610036
CLDN5	22q11.21	
CLDN9	16p13.3	https://www.omim.org/entry/615799
CLEC16A	16p13.13	
CLEC3B	3p21.31	https://www.omim.org/entry/187520
CLEC7A	12p13.2	https://www.omim.org/entry/606264
CLMP	11q24.1	https://www.omim.org/entry/611693
CLN3	16p12.1	https://www.omim.org/entry/607042
CLN5	13q22.3	https://www.omim.org/entry/608102
CLN6	15q23	https://www.omim.org/entry/606725
CLN8	8p23.3	https://www.omim.org/entry/607837
CLP1	11q12.1	https://www.omim.org/entry/608757
CLPB	11q13.4	https://www.omim.org/entry/616254
CLPP	19p13.3	https://www.omim.org/entry/601119
CLRN1	3q25.1	https://www.omim.org/entry/606397
CLRN2	4p15.32	https://www.omim.org/entry/618988
CLTC	17q23.1	https://www.omim.org/entry/118955
CLU	8p21.1	
CLUAP1	16p13.3	
CLXN	8q11.21	https://www.omim.org/entry/619564
CNBP	3q21.3	https://www.omim.org/entry/116955
CNGA1	4p12	https://www.omim.org/entry/123825
CNGA3	2q11.2	https://www.omim.org/entry/600053
CNGB1	16q21	https://www.omim.org/entry/600724
CNGB3	8q21.3	https://www.omim.org/entry/605080
CNKSR1	1p36.11	

CNKS2R2	Xp22.12	https://www.omim.org/entry/300724
CNNM2	10q24.32	https://www.omim.org/entry/607803
CNNM4	2q11.2	https://www.omim.org/entry/607805
CNOT1	16q21	https://www.omim.org/entry/604917
CNOT2	12q15	https://www.omim.org/entry/604909
CNOT3	19q13.42	https://www.omim.org/entry/604910
CNOT9	2q35	
CNP	17q21.2	
CNPY3	6p21.1	https://www.omim.org/entry/610774
CNTN1	12q12	https://www.omim.org/entry/600016
CNTN2	1q32.1	https://www.omim.org/entry/190197
CNTNAP1	17q21.2	https://www.omim.org/entry/602346
CNTNAP2	7q35-q36.1	https://www.omim.org/entry/604569
COA5	2q11.2	
COA6	1q42.2	https://www.omim.org/entry/614772
COA7	1p32.3	https://www.omim.org/entry/615623
COA8	14q32.33	https://www.omim.org/entry/616003
COASY	17q21.2	https://www.omim.org/entry/609855
COCH	14q12	https://www.omim.org/entry/603196
COG1	17q25.1	https://www.omim.org/entry/606973
COG2	1q42.2	
COG3	13q14.13	https://www.omim.org/entry/606975
COG4	16q22.1	https://www.omim.org/entry/606976
COG5	7q22.3	https://www.omim.org/entry/606821
COG6	13q14.11	https://www.omim.org/entry/606977
COG7	16p12.2	https://www.omim.org/entry/606978
COG8	16q22.1	https://www.omim.org/entry/606979
COL10A1	6q22.1	https://www.omim.org/entry/120110
COL11A1	1p21.1	https://www.omim.org/entry/120280
COL11A2	6p21.32	https://www.omim.org/entry/120290
COL12A1	6q13-q14.1	https://www.omim.org/entry/120320
COL13A1	10q22.1	https://www.omim.org/entry/120350
COL17A1	10q25.1	https://www.omim.org/entry/113811
COL18A1	21q22.3	https://www.omim.org/entry/120328
COL1A1	17q21.33	https://www.omim.org/entry/120150
COL1A2	7q21.3	https://www.omim.org/entry/120160
COL25A1	4q25	https://www.omim.org/entry/610004
COL27A1	9q32	https://www.omim.org/entry/608461
COL2A1	12q13.11	https://www.omim.org/entry/120140
COL3A1	2q32.2	https://www.omim.org/entry/120180
COL4A1	13q34	https://www.omim.org/entry/120130
COL4A2	13q34	https://www.omim.org/entry/120090
COL4A3	2q36.3	https://www.omim.org/entry/120070
COL4A4	2q36.3	https://www.omim.org/entry/120131
COL4A5	Xq22.3	https://www.omim.org/entry/303630
COL4A6	Xq22.3	
COL5A1	9q34.3	https://www.omim.org/entry/120215
COL5A2	2q32.2	https://www.omim.org/entry/120190
COL6A1	21q22.3	https://www.omim.org/entry/120220
COL6A2	21q22.3	https://www.omim.org/entry/120240

COL6A3	2q37.3	https://www.omim.org/entry/120250
COL7A1	3p21.31	https://www.omim.org/entry/120120
COL8A2	1p34.3	https://www.omim.org/entry/120252
COL9A1	6q13	https://www.omim.org/entry/120210
COL9A2	1p34.2	https://www.omim.org/entry/120260
COL9A3	20q13.33	https://www.omim.org/entry/120270
COLEC10	8q24.12	https://www.omim.org/entry/607620
COLEC11	2p25.3	https://www.omim.org/entry/612502
COLGALT1	19p13.11	https://www.omim.org/entry/617531
COLQ	3p25.1	https://www.omim.org/entry/603033
COMP	19p13.11	https://www.omim.org/entry/600310
COPA	1q23.2	
COPB1	11p15.2	https://www.omim.org/entry/600959
COPB2	3q23	https://www.omim.org/entry/606990
COQ2	4q21.23	https://www.omim.org/entry/609825
COQ4	9q34.11	https://www.omim.org/entry/612898
COQ6	14q24.3	https://www.omim.org/entry/614647
COQ7	16p12.3	https://www.omim.org/entry/601683
COQ8A	1q42.13	https://www.omim.org/entry/606980
COQ8B	19q13.2	https://www.omim.org/entry/615567
COQ9	16q21	https://www.omim.org/entry/612837
CORIN	4p12	https://www.omim.org/entry/605236
CORO1A	16p11.2	https://www.omim.org/entry/605000
COX10	17p12	https://www.omim.org/entry/602125
COX11	17q22	https://www.omim.org/entry/603648
COX14	12q13.12	
COX15	10q24.2	https://www.omim.org/entry/603646
COX16	14q24.2	https://www.omim.org/entry/618064
COX20	1q44	https://www.omim.org/entry/614698
COX4I1	16q24.1	https://www.omim.org/entry/123864
COX4I2	20q11.21	https://www.omim.org/entry/607976
COX5A	15q24.2	https://www.omim.org/entry/603773
COX6A1	12q24.31	https://www.omim.org/entry/602072
COX6A2	16p11.2	https://www.omim.org/entry/602009
COX6B1	19q13.12	https://www.omim.org/entry/124089
COX7B	Xq21.1	https://www.omim.org/entry/300885
CP	3q24-q25.1	https://www.omim.org/entry/117700
CPA1	7q32.2	
CPA6	8q13.2	https://www.omim.org/entry/609562
CPAMD8	19p13.11	https://www.omim.org/entry/608841
CPB1	3q24	
CPE	4q32.3	https://www.omim.org/entry/114855
CPLANE1	5p13.2	https://www.omim.org/entry/614571
CPLX1	4p16.3	https://www.omim.org/entry/605032
CPN1	10q24.2	https://www.omim.org/entry/603103
CPOX	3q11.2	https://www.omim.org/entry/612732
CPS1	2q34	https://www.omim.org/entry/608307
CPSF1	8q24.3	https://www.omim.org/entry/606027
CPSF3	2p25.1	https://www.omim.org/entry/606029
CPT1A	11q13.3	https://www.omim.org/entry/600528

CPT1C	19q13.33	
CPT2	1p32.3	https://www.omim.org/entry/600650
CR2	1q32.2	
CRADD	12q22	https://www.omim.org/entry/603454
CRB1	1q31.3	https://www.omim.org/entry/604210
CRB2	9q33.3	https://www.omim.org/entry/609720
CRBN	3p26.2	https://www.omim.org/entry/609262
CREB1	2q33.3	https://www.omim.org/entry/123810
CREB3L1	11p11.2	https://www.omim.org/entry/616215
CREB3L2	7q33	
CREB3L3	19p13.3	https://www.omim.org/entry/611998
CREBBP	16p13.3	https://www.omim.org/entry/600140
CRELD1	3p25.3	https://www.omim.org/entry/607170
CRIM1	2p22.2	
CRIP1	2p21	https://www.omim.org/entry/604594
CRLF1	19p12	https://www.omim.org/entry/604237
CRLS1	20p12.3	https://www.omim.org/entry/608188
CRNKL1	20p11.23	
CRPPA	7p21.2	https://www.omim.org/entry/614631
CRTAP	3p22.3	https://www.omim.org/entry/605497
CRTC1	19p13.11	https://www.omim.org/entry/607536
CRX	19q13.33	https://www.omim.org/entry/602225
CRY1	12q23.3	
CRYAA	21q22.3	https://www.omim.org/entry/123580
CRYAB	11q23.1	https://www.omim.org/entry/123590
CRYBA1	17q11.2	https://www.omim.org/entry/123610
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CRYBB1	22q12.1	https://www.omim.org/entry/600929
CRYBB2	22q11.23	https://www.omim.org/entry/123620
CRYBB3	22q11.23	https://www.omim.org/entry/123630
CRYGB	2q33.3	https://www.omim.org/entry/123670
CRYGC	2q33.3	https://www.omim.org/entry/123680
CRYGD	2q33.3	https://www.omim.org/entry/123690
CRYGS	3q27.3	https://www.omim.org/entry/123730
CRYM	16p12.2	https://www.omim.org/entry/123740
CSDE1	1p13.2	
CSF1R	5q32	https://www.omim.org/entry/164770
CSF2RA	Xp22.32 and	https://www.omim.org/entry/306250
CSF2RB	22q12.3	https://www.omim.org/entry/138981
CSF3R	1p34.3	https://www.omim.org/entry/138971
CSGALNAC	8p21.3	https://www.omim.org/entry/616615
CSMD1	8p23.2	
CSNK1D	17q25.3	https://www.omim.org/entry/600864
CSNK1G1	15q22.31	
CSNK2A1	20p13	https://www.omim.org/entry/115440
CSNK2B	6p21.33	https://www.omim.org/entry/115441
CSPP1	8q13.1-q13.2	https://www.omim.org/entry/611654
CSRP3	11p15.1	https://www.omim.org/entry/600824
CST3	20p11.21	https://www.omim.org/entry/604312
CST6	11q13.1	

CSTA	3q21.1	https://www.omim.org/entry/184600
CSTB	21q22.3	https://www.omim.org/entry/601145
CTBP1	4p16.3	https://www.omim.org/entry/602618
CTC1	17p13.1	https://www.omim.org/entry/613129
CTCF	16q22.1	https://www.omim.org/entry/604167
CTDP1	18q23	https://www.omim.org/entry/604927
CTH	1p31.1	https://www.omim.org/entry/607657
CTHRC1	8q22.3	https://www.omim.org/entry/610635
CTLA4	2q33.2	https://www.omim.org/entry/123890
CTNNA1	5q31.2	https://www.omim.org/entry/116805
CTNNA2	2p12	https://www.omim.org/entry/114025
CTNNA3	10q21.3	https://www.omim.org/entry/607667
CTNNB1	3p22.1	https://www.omim.org/entry/116806
CTNND1	11q12.1	https://www.omim.org/entry/601045
CTNND2	5p15.2	
CTNS	17p13.2	https://www.omim.org/entry/606272
CTPS1	1p34.2	https://www.omim.org/entry/123860
CTR9	11p15.4	
CTRC	1p36.21	
CTSA	20q13.12	https://www.omim.org/entry/613111
CTSC	11q14.2	https://www.omim.org/entry/602365
CTSD	11p15.5	https://www.omim.org/entry/116840
CTSF	11q13.2	https://www.omim.org/entry/603539
CTSK	1q21.3	https://www.omim.org/entry/601105
CTU2	16q24.3	https://www.omim.org/entry/617057
CUBN	10p13	https://www.omim.org/entry/602997
CUL3	2q36.2	https://www.omim.org/entry/603136
CUL4B	Xq24	https://www.omim.org/entry/300304
CUL7	6p21.1	https://www.omim.org/entry/609577
CUX1	7q22.1	https://www.omim.org/entry/116896
CUX2	12q24.11-q24.12	https://www.omim.org/entry/610648
CWC27	5q12.3	https://www.omim.org/entry/617170
CWF19L1	10q24.31	https://www.omim.org/entry/616120
CXCL10	4q21.1	
CXCL8	4q13.3	
CXCL9	4q21.1	
CXCR1	2q35	
CXCR2	2q35	
CXCR4	2q22.1	https://www.omim.org/entry/162643
CXCR6	3p21.31	
CYB561	17q23.3	https://www.omim.org/entry/600019
CYB5A	18q22.3	https://www.omim.org/entry/613218
CYB5R3	22q13.2	https://www.omim.org/entry/613213
CYBA	16q24.2	https://www.omim.org/entry/608508
CYBB	Xp21.1-p11.4	https://www.omim.org/entry/300481
CYBC1	17q25.3	https://www.omim.org/entry/618334
CYBRD1	2q31.1	
CYC1	8q24.3	https://www.omim.org/entry/123980
CYCS	7p15.3	https://www.omim.org/entry/123970
CYFIP2	5q33.3	https://www.omim.org/entry/606323

CYLC1	Xq21.1	
CYLD	16q12.1	https://www.omim.org/entry/605018
CYP11A1	15q24.1	https://www.omim.org/entry/118485
CYP11B1	8q24.3	https://www.omim.org/entry/610613
CYP11B2	8q24.3	https://www.omim.org/entry/124080
CYP17A1	10q24.32	https://www.omim.org/entry/609300
CYP19A1	15q21.2	https://www.omim.org/entry/107910
CYP1B1	2p22.2	https://www.omim.org/entry/601771
CYP21A2	6p21.33	https://www.omim.org/entry/613815
CYP24A1	20q13.2	https://www.omim.org/entry/126065
CYP26B1	2p13.2	https://www.omim.org/entry/605207
CYP26C1	10q23.33	https://www.omim.org/entry/608428
CYP27A1	2q35	https://www.omim.org/entry/606530
CYP27B1	12q14.1	https://www.omim.org/entry/609506
CYP2A6	19q13.2	https://www.omim.org/entry/122720
CYP2B6	19q13.2	https://www.omim.org/entry/123930
CYP2C19	10q23.33	https://www.omim.org/entry/124020
CYP2C9	10q23.33	https://www.omim.org/entry/601130
CYP2D6	22q13.2	
CYP2R1	11p15.2	https://www.omim.org/entry/608713
CYP2U1	4q25	https://www.omim.org/entry/610670
CYP3A4	7q22.1	https://www.omim.org/entry/124010
CYP3A5	7q22.1	
CYP4F2	19p13.12	
CYP4F22	19p13.12	https://www.omim.org/entry/611495
CYP4V2	4q35.1-q35.2	https://www.omim.org/entry/608614
CYP51A1	7q21.2	
CYP7B1	8q12.3	https://www.omim.org/entry/603711
D2HGDH	2q37.3	https://www.omim.org/entry/609186
DAAM2	6p21.2	https://www.omim.org/entry/606627
DAB1	1p32.2	https://www.omim.org/entry/603448
DACT1	14q23.1	https://www.omim.org/entry/607861
DAG1	3p21.31	https://www.omim.org/entry/128239
DAGLA	11q12.2	https://www.omim.org/entry/614015
DAO	12q24.11	
DARS1	2q21.3	https://www.omim.org/entry/603084
DARS2	1q25.1	https://www.omim.org/entry/610956
DAW1	2q36.3	https://www.omim.org/entry/620279
DAXX	6p21.32	
DBH	9q34.2	https://www.omim.org/entry/609312
DBR1	3q22.3	https://www.omim.org/entry/607024
DBT	1p21.2	https://www.omim.org/entry/248610
DCAF17	2q31.1	https://www.omim.org/entry/612515
DCC	18q21.2	https://www.omim.org/entry/120470
DCDC2	6p22.3	https://www.omim.org/entry/605755
DCHS1	11p15.4	https://www.omim.org/entry/603057
DCLRE1B	1p13.2	https://www.omim.org/entry/609683
DCLRE1C	10p13	https://www.omim.org/entry/605988
DCN	12q21.33	https://www.omim.org/entry/125255
DCPS	11q24.2	https://www.omim.org/entry/610534

DCT	13q32.1	https://www.omim.org/entry/191275
DCTN1	2p13.1	https://www.omim.org/entry/601143
DCX	Xq23	https://www.omim.org/entry/300121
DCXR	17q25.3	
DDB1	11q12.2	https://www.omim.org/entry/600045
DDB2	11p11.2	https://www.omim.org/entry/600811
DDC	7p12.2-p12.1	https://www.omim.org/entry/107930
DDHD1	14q22.1	https://www.omim.org/entry/614603
DDHD2	8p11.23	https://www.omim.org/entry/615003
DDIT3	12q13.3	
DDOST	1p36.12	https://www.omim.org/entry/602202
DDR2	1q23.3	https://www.omim.org/entry/191311
DDRGK1	20p13	https://www.omim.org/entry/616177
DDX11	12p11.21	https://www.omim.org/entry/601150
DDX17	22q13.1	
DDX23	12q13.12	
DDX24	14q32.12	
DDX3X	Xp11.4	https://www.omim.org/entry/300160
DDX3Y	Yq11.221	
DDX41	5q35.3	
DDX59	1q32.1	https://www.omim.org/entry/615464
DDX6	11q23.3	https://www.omim.org/entry/600326
DEAF1	11p15.5	https://www.omim.org/entry/602635
DEF6	6p21.31	https://www.omim.org/entry/610094
DEGS1	1q42.11	https://www.omim.org/entry/615843
DENND5A	11p15.4	https://www.omim.org/entry/617278
DENND5B	12p11.21	
DEPDC5	22q12.2-q12.1	https://www.omim.org/entry/614191
DES	2q35	https://www.omim.org/entry/125660
DGAT1	8q24.3	https://www.omim.org/entry/604900
DGCR8	22q11.21	
DGKE	17q22	https://www.omim.org/entry/601440
DGUOK	2p13.1	https://www.omim.org/entry/601465
DHCR24	1p32.3	https://www.omim.org/entry/606418
DHCR7	11q13.4	https://www.omim.org/entry/602858
DHDDS	1p36.11	https://www.omim.org/entry/608172
DHFR	5q14.1	https://www.omim.org/entry/126060
DHH	12q13.12	https://www.omim.org/entry/605423
DHODH	16q22.2	https://www.omim.org/entry/126064
DHPS	19p13.13	https://www.omim.org/entry/600944
DHRX	Xp22.33 and Yp11.2	
DHTKD1	10p14	https://www.omim.org/entry/614984
DHX16	6p21.33	https://www.omim.org/entry/603405
DHX30	3p21.31	https://www.omim.org/entry/616423
DHX37	12q24.31	https://www.omim.org/entry/617362
DHX38	16q22.2	https://www.omim.org/entry/605584
DHX9	1q25.3	https://www.omim.org/entry/603115
DIABLO	12q24.31	https://www.omim.org/entry/605219
DIAPH1	5q31.3	https://www.omim.org/entry/602121
DIAPH3	13q21.2	https://www.omim.org/entry/614567

DICER1	14q32.13	https://www.omim.org/entry/606241
DIO1	1p32.3	https://www.omim.org/entry/147892
DIP2B	12q13.12	https://www.omim.org/entry/611379
DIP2C	10p15.3	
DIRC3	2q35	
DIS3L2	2q37.1	https://www.omim.org/entry/614184
DISC1	1q42.2	
DISP1	1q41	
DKC1	Xq28	https://www.omim.org/entry/300126
DLAT	11q23.1	https://www.omim.org/entry/608770
DLC1	8p22	https://www.omim.org/entry/604258
DLD	7q31.1	https://www.omim.org/entry/238331
DLG2	11q14.1	
DLG3	Xq13.1	https://www.omim.org/entry/300189
DLG4	17p13.1	https://www.omim.org/entry/602887
DLG5	10q22.3	https://www.omim.org/entry/604090
DLK1	14q32.2	
DLL1	6q27	https://www.omim.org/entry/606582
DLL3	19q13.2	https://www.omim.org/entry/602768
DLL4	15q15.1	https://www.omim.org/entry/605185
DLST	14q24.3	https://www.omim.org/entry/126063
DLX3	17q21.33	https://www.omim.org/entry/600525
DLX5	7q21.3	https://www.omim.org/entry/600028
DMAP1	1p34.1	
DMC1	22q13.1	
DMD	Xp21.2-p21.1	https://www.omim.org/entry/300377
DMGDH	5q14.1	https://www.omim.org/entry/605849
DMP1	4q22.1	https://www.omim.org/entry/600980
DMPK	19q13.32	https://www.omim.org/entry/605377
DMRT1	9p24.3	
DMXL2	15q21.2	https://www.omim.org/entry/612186
DNA2	10q21.3	https://www.omim.org/entry/601810
DNAAF1	16q24.1	https://www.omim.org/entry/613190
DNAAF11	8q24.22	https://www.omim.org/entry/614930
DNAAF2	14q21.3	https://www.omim.org/entry/612517
DNAAF3	19q13.42	https://www.omim.org/entry/614566
DNAAF4	15q21.3	https://www.omim.org/entry/608706
DNAAF5	7p22.3	https://www.omim.org/entry/614864
DNAAF6	Xq22.3	https://www.omim.org/entry/300933
DNAH1	3p21.1	https://www.omim.org/entry/603332
DNAH10	12q24.31	https://www.omim.org/entry/605884
DNAH11	7p15.3	https://www.omim.org/entry/603339
DNAH14	1q42.12	
DNAH17	17q25.3	https://www.omim.org/entry/610063
DNAH2	17p13.1	https://www.omim.org/entry/603333
DNAH3	16p12.3	
DNAH5	5p15.2	https://www.omim.org/entry/603335
DNAH6	2p11.2	
DNAH7	2q32.3	https://www.omim.org/entry/610061
DNAH8	6p21.2	https://www.omim.org/entry/603337

DNAH9	17p12	https://www.omim.org/entry/603330
DNAI1	9p13.3	https://www.omim.org/entry/604366
DNAI2	17q25.1	https://www.omim.org/entry/605483
DNAJB11	3q27.3	https://www.omim.org/entry/611341
DNAJB13	11q13.4	https://www.omim.org/entry/610263
DNAJB2	2q35	https://www.omim.org/entry/604139
DNAJB4	1p31.1	https://www.omim.org/entry/611327
DNAJB6	7q36.3	https://www.omim.org/entry/611332
DNAJC12	10q21.3	https://www.omim.org/entry/606060
DNAJC13	3q22.1	
DNAJC19	3q26.33	https://www.omim.org/entry/608977
DNAJC21	5p13.2	https://www.omim.org/entry/617048
DNAJC3	13q32.1	https://www.omim.org/entry/601184
DNAJC30	7q11.23	https://www.omim.org/entry/618202
DNAJC5	20q13.33	https://www.omim.org/entry/611203
DNAJC6	1p31.3	https://www.omim.org/entry/608375
DNAJC7	17q21.2	
DNAL1	14q24.3	https://www.omim.org/entry/610062
DNALI1	1p34.3	https://www.omim.org/entry/602135
DNASE1L3	3p14.3	https://www.omim.org/entry/602244
DNASE2	19p13.13	https://www.omim.org/entry/126350
DNHD1	11p15.4	https://www.omim.org/entry/617277
DNM1	9q34.11	https://www.omim.org/entry/602377
DNM1L	12p11.21	https://www.omim.org/entry/603850
DNM2	19p13.2	https://www.omim.org/entry/602378
DNMBP	10q24.2	https://www.omim.org/entry/611282
DNMT1	19p13.2	https://www.omim.org/entry/126375
DNMT3A	2p23.3	https://www.omim.org/entry/602769
DNMT3B	20q11.21	https://www.omim.org/entry/602900
DOCK11	Xq24	https://www.omim.org/entry/300681
DOCK2	5q35.1	https://www.omim.org/entry/603122
DOCK3	3p21.2	https://www.omim.org/entry/603123
DOCK4	7q31.1	
DOCK6	19p13.2	https://www.omim.org/entry/614194
DOCK7	1p31.3	https://www.omim.org/entry/615730
DOCK8	9p24.3	https://www.omim.org/entry/611432
DOHH	19p13.3	https://www.omim.org/entry/611262
DOK7	4p16.3	https://www.omim.org/entry/610285
DOLK	9q34.11	https://www.omim.org/entry/610746
DONSON	21q22.11	https://www.omim.org/entry/611428
DOT1L	19p13.3	
DPAGT1	11q23.3	https://www.omim.org/entry/191350
DPF2	11q13.1	https://www.omim.org/entry/601671
DPH1	17p13.3	https://www.omim.org/entry/603527
DPH2	1p34.1	https://www.omim.org/entry/603456
DPH5	1p21.2	https://www.omim.org/entry/611075
DPM1	20q13.13	https://www.omim.org/entry/603503
DPM2	9q34.11	https://www.omim.org/entry/603564
DPM3	1q22	https://www.omim.org/entry/605951
DPP6	7q36.2	https://www.omim.org/entry/126141

DPP9	19p13.3	https://www.omim.org/entry/608258
DPY19L2	12q14.2	https://www.omim.org/entry/613893
DPYD	1p21.3	https://www.omim.org/entry/612779
DPYS	8q22.3	https://www.omim.org/entry/613326
DPYSL5	2p23.3	https://www.omim.org/entry/608383
DRAM2	1p13.3	https://www.omim.org/entry/613360
DRC1	2p23.3	https://www.omim.org/entry/615288
DRD2	11q23.2	
DRD4	11p15.5	https://www.omim.org/entry/126452
DRG1	22q12.2	https://www.omim.org/entry/603952
DROSHA	5p13.3	
DRP2	Xq22.1	
DSC2	18q12.1	https://www.omim.org/entry/125645
DSC3	18q12.1	https://www.omim.org/entry/600271
DSCAM	21q22.2	
DSE	6q22.1	https://www.omim.org/entry/605942
DSG1	18q12.1	https://www.omim.org/entry/125670
DSG2	18q12.1	https://www.omim.org/entry/125671
DSG3	18q12.1	https://www.omim.org/entry/169615
DSG4	18q12.1	https://www.omim.org/entry/607892
DSP	6p24.3	https://www.omim.org/entry/125647
DSPP	4q22.1	https://www.omim.org/entry/125485
DST	6p12.1	https://www.omim.org/entry/113810
DSTYK	1q32.1	https://www.omim.org/entry/612666
DTNA	18q12.1	https://www.omim.org/entry/601239
DTNBP1	6p22.3	https://www.omim.org/entry/607145
DTYMK	2q37.3	https://www.omim.org/entry/188345
DUOX1	15q21.1	
DUOX2	15q21.1	https://www.omim.org/entry/606759
DUOXA2	15q21.1	https://www.omim.org/entry/612772
DUSP6	12q21.33	https://www.omim.org/entry/602748
DUT	15q21.1	https://www.omim.org/entry/601266
DVL1	1p36.33	https://www.omim.org/entry/601365
DVL2	17p13.1	
DVL3	3q27.1	https://www.omim.org/entry/601368
DYM	18q21.1	https://www.omim.org/entry/607461
DYNC1H1	14q32.31	https://www.omim.org/entry/600112
DYNC1I1	7q21.3	
DYNC1I2	2q31.1	https://www.omim.org/entry/603331
DYNC2H1	11q22.3	https://www.omim.org/entry/603297
DYNC2I1	7q36.3	https://www.omim.org/entry/615462
DYNC2I2	9q34.11	https://www.omim.org/entry/613363
DYNC2LI1	2p21	https://www.omim.org/entry/617083
DYNLT2B	3q29	https://www.omim.org/entry/617353
DYRK1A	21q22.13	https://www.omim.org/entry/600855
DYRK1B	19q13.2	https://www.omim.org/entry/604556
DYSF	2p13.2	https://www.omim.org/entry/603009
DZIP1	13q32.1	https://www.omim.org/entry/608671
DZIP1L	3q22.3	https://www.omim.org/entry/617570
EARS2	16p12.2	https://www.omim.org/entry/612799

EBF3	10q26.3	https://www.omim.org/entry/607407
EBP	Xp11.23	https://www.omim.org/entry/300205
ECE1	1p36.12	
ECEL1	2q37.1	https://www.omim.org/entry/605896
ECHS1	10q26.3	https://www.omim.org/entry/602292
ECM1	1q21.2	https://www.omim.org/entry/602201
EDA	Xq13.1	https://www.omim.org/entry/300451
EDAR	2q13	https://www.omim.org/entry/604095
EDARADD	1q42.3-q43	https://www.omim.org/entry/606603
EDEM3	1q25.3	https://www.omim.org/entry/610214
EDN1	6p24.1	https://www.omim.org/entry/131240
EDN3	20q13.32	https://www.omim.org/entry/131242
EDNRA	4q31.22-q31.	https://www.omim.org/entry/131243
EDNRB	13q22.3	https://www.omim.org/entry/131244
EED	11q14.2	https://www.omim.org/entry/605984
EEF1A2	20q13.33	https://www.omim.org/entry/602959
EEF1B2	2q33.3	
EEF1D	8q24.3	
EEF2	19p13.3	
EFEMP1	2p16.1	https://www.omim.org/entry/601548
EFEMP2	11q13.1	https://www.omim.org/entry/604633
EFHC1	6p12.2	
EFL1	15q25.2	https://www.omim.org/entry/617538
EFNB1	Xq13.1	https://www.omim.org/entry/300035
EFTUD2	17q21.31	https://www.omim.org/entry/603892
EGFR	7p11.2	https://www.omim.org/entry/131550
EGLN1	1q42.2	https://www.omim.org/entry/606425
EGR2	10q21.3	https://www.omim.org/entry/129010
EHBP1L1	11q13.1	
EHHADH	3q27.2	
EHMT1	9q34.3	https://www.omim.org/entry/607001
EIF2AK2	2p22.2	https://www.omim.org/entry/176871
EIF2AK3	2p11.2	https://www.omim.org/entry/604032
EIF2AK4	15q15.1	https://www.omim.org/entry/609280
EIF2B1	12q24.31	https://www.omim.org/entry/606686
EIF2B2	14q24.3	https://www.omim.org/entry/606454
EIF2B3	1p34.1	https://www.omim.org/entry/606273
EIF2B4	2p23.3	https://www.omim.org/entry/606687
EIF2B5	3q27.1	https://www.omim.org/entry/603945
EIF2S3	Xp22.11	https://www.omim.org/entry/300161
EIF3F	11p15.4	https://www.omim.org/entry/603914
EIF4A2	3q27.3	https://www.omim.org/entry/601102
EIF4A3	17q25.3	https://www.omim.org/entry/608546
EIF4G1	3q27.1	
EIF5A	17p13.1	https://www.omim.org/entry/600187
ELAC2	17p12	https://www.omim.org/entry/605367
ELANE	19p13.3	https://www.omim.org/entry/130130
ELF4	Xq26.1	https://www.omim.org/entry/300775
ELMO2	20q13.12	https://www.omim.org/entry/606421
ELN	7q11.23	https://www.omim.org/entry/130160

ELOVL1	1p34.2	https://www.omim.org/entry/611813
ELOVL4	6q14.1	https://www.omim.org/entry/605512
ELOVL5	6p12.1	https://www.omim.org/entry/611805
ELP1	9q31.3	https://www.omim.org/entry/603722
ELP2	18q12.2	https://www.omim.org/entry/616054
EMC1	1p36.13	https://www.omim.org/entry/616846
EMC10	19q13.33	https://www.omim.org/entry/614545
EMD	Xq28	https://www.omim.org/entry/300384
EMG1	12p13.31	https://www.omim.org/entry/611531
EMILIN1	2p23.3	https://www.omim.org/entry/130660
EML1	14q32.2	https://www.omim.org/entry/602033
EMP2	16p13.13	https://www.omim.org/entry/602334
EMX2	10q26.11	https://www.omim.org/entry/600035
EN1	2q14.2	
ENAM	4q13.3	https://www.omim.org/entry/606585
ENG	9q34.11	https://www.omim.org/entry/131195
ENO3	17p13.2	https://www.omim.org/entry/131370
ENPP1	6q23.2	https://www.omim.org/entry/173335
ENTPD1	10q24.1	https://www.omim.org/entry/601752
EOGT	3p14.1	https://www.omim.org/entry/614789
EOMES	3p24.1	
EP300	22q13.2	https://www.omim.org/entry/602700
EPAS1	2p21	https://www.omim.org/entry/603349
EPB41	1p35.3	https://www.omim.org/entry/130500
EPB41L3	18p11.31	
EPB42	15q15.2	https://www.omim.org/entry/177070
EPCAM	2p21	https://www.omim.org/entry/185535
EPG5	18q12.3-q21.	https://www.omim.org/entry/615068
EPHA2	1p36.13	https://www.omim.org/entry/176946
EPHB2	1p36.12	
EPHB4	7q22.1	https://www.omim.org/entry/600011
EPHX1	1q42.12	
EPM2A	6q24.3	https://www.omim.org/entry/607566
EPO	7q22.1	https://www.omim.org/entry/133170
EPOR	19p13.2	
EPRS1	1q41	https://www.omim.org/entry/138295
EPS8	12p12.3	
EPS8L2	11p15.5	https://www.omim.org/entry/614988
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ERBB2	17q12	https://www.omim.org/entry/164870
ERBB3	12q13.2	https://www.omim.org/entry/190151
ERBB4	2q34	https://www.omim.org/entry/600543
ERBIN	5q12.3	
ERC1	12p13.33	
ERCC1	19q13.32	https://www.omim.org/entry/126380
ERCC2	19q13.32	https://www.omim.org/entry/126340
ERCC3	2q14.3	https://www.omim.org/entry/133510
ERCC4	16p13.12	https://www.omim.org/entry/133520
ERCC5	13q33.1	https://www.omim.org/entry/133530
ERCC6	10q11.23	https://www.omim.org/entry/609413

ERCC6L2	9q22.32	https://www.omim.org/entry/615667
ERCC8	5q12.1	https://www.omim.org/entry/609412
ERF	19q13.2	https://www.omim.org/entry/611888
ERG	21q22.2	https://www.omim.org/entry/165080
ERGIC1	5q35.1	
ERI1	8p23.1	https://www.omim.org/entry/608739
ERLEC1	2p16.2	
ERLIN1	10q24.31	https://www.omim.org/entry/611604
ERLIN2	8p11.23	https://www.omim.org/entry/611605
ERMARD	6q27	
ESAM	11q24.2	https://www.omim.org/entry/614281
ESCO2	8p21.1	https://www.omim.org/entry/609353
ESM1	5q11.2	
ESPN	1p36.31	https://www.omim.org/entry/606351
ESR1	6q25.1-q25.2	https://www.omim.org/entry/133430
ESRRB	14q24.3	https://www.omim.org/entry/602167
ETFA	15q24.2-q24.	https://www.omim.org/entry/608053
ETFB	19q13.41	https://www.omim.org/entry/130410
ETFDH	4q32.1	https://www.omim.org/entry/231675
ETHE1	19q13.31	https://www.omim.org/entry/608451
ETV6	12p13.2	https://www.omim.org/entry/600618
EVC	4p16.2	https://www.omim.org/entry/604831
EVC2	4p16.2	https://www.omim.org/entry/607261
EWSR1	22q12.2	https://www.omim.org/entry/133450
EXOC2	6p25.3	https://www.omim.org/entry/615329
EXOC3L2	19q13.32	https://www.omim.org/entry/616927
EXOC6B	2p13.2	https://www.omim.org/entry/607880
EXOC7	17q25.1	https://www.omim.org/entry/608163
EXOSC2	9q34.12	https://www.omim.org/entry/602238
EXOSC3	9p13.2	https://www.omim.org/entry/606489
EXOSC5	19q13.2	https://www.omim.org/entry/606492
EXOSC8	13q13.3	https://www.omim.org/entry/606019
EXOSC9	4q27	https://www.omim.org/entry/606180
EXPH5	11q22.3	https://www.omim.org/entry/612878
EXT1	8q24.11	https://www.omim.org/entry/608177
EXT2	11p11.2	https://www.omim.org/entry/608210
EXTL3	8p21.1	https://www.omim.org/entry/605744
EYA1	8q13.3	https://www.omim.org/entry/601653
EYA4	6q23.2	https://www.omim.org/entry/603550
EYS	6q12	https://www.omim.org/entry/612424
EZH1	17q21.2	
EZH2	7q36.1	https://www.omim.org/entry/601573
F10	13q34	https://www.omim.org/entry/613872
F11	4q35.2	https://www.omim.org/entry/264900
F12	5q35.3	https://www.omim.org/entry/610619
F13A1	6p25.1	https://www.omim.org/entry/134570
F13B	1q31.3	https://www.omim.org/entry/134580
F2	11p11.2	https://www.omim.org/entry/176930
F5	1q24.2	https://www.omim.org/entry/612309
F7	13q34	https://www.omim.org/entry/613878

F8	Xq28	https://www.omim.org/entry/300841
F9	Xq27.1	https://www.omim.org/entry/300746
FA2H	16q23.1	https://www.omim.org/entry/611026
FAAP20	1p36.33	
FAAP24	19q13.11	
FADD	11q13.3	https://www.omim.org/entry/602457
FAH	15q25.1	https://www.omim.org/entry/613871
FAM111A	11q12.1	https://www.omim.org/entry/615292
FAM111B	11q12.1	https://www.omim.org/entry/615584
FAM149B1	10q22.2	https://www.omim.org/entry/618413
FAM161A	2p15	https://www.omim.org/entry/613596
FAM177A1	14q13.2	
FAM20A	17q24.2	https://www.omim.org/entry/611062
FAM20C	7p22.3	https://www.omim.org/entry/611061
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FAM83H	8q24.3	https://www.omim.org/entry/611927
FAN1	15q13.3	https://www.omim.org/entry/613534
FANCA	16q24.3	https://www.omim.org/entry/607139
FANCB	Xp22.2	https://www.omim.org/entry/300515
FANCC	9q22.32	https://www.omim.org/entry/613899
FANCD2	3p25.3	https://www.omim.org/entry/613984
FANCE	6p21.31	https://www.omim.org/entry/613976
FANCF	11p14.3	https://www.omim.org/entry/613897
FANCG	9p13.3	https://www.omim.org/entry/602956
FANCI	15q26.1	https://www.omim.org/entry/611360
FANCL	2p16.1	https://www.omim.org/entry/608111
FANCM	14q21.2	https://www.omim.org/entry/609644
FAP	2q24.2	
FAR1	11p15.3	https://www.omim.org/entry/616107
FARS2	6p25.1	https://www.omim.org/entry/611592
FARSA	19p13.13	
FARSB	2q36.1	https://www.omim.org/entry/609690
FAS	10q23.31	https://www.omim.org/entry/134637
FASLG	1q24.3	https://www.omim.org/entry/134638
FASTKD2	2q33.3	https://www.omim.org/entry/612322
FAT1	4q35.2	
FAT2	5q33.1	https://www.omim.org/entry/604269
FAT4	4q28.1	https://www.omim.org/entry/612411
FBLN5	14q32.12	https://www.omim.org/entry/604580
FBN1	15q21.1	https://www.omim.org/entry/134797
FBN2	5q23.3	https://www.omim.org/entry/612570
FBP1	9q22.32	https://www.omim.org/entry/611570
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FBXL3	13q22.3	https://www.omim.org/entry/605653
FBXL4	6q16.1-q16.2	https://www.omim.org/entry/605654
FBXO11	2p16.3	https://www.omim.org/entry/607871
FBXO28	1q42.11	https://www.omim.org/entry/609100
FBXO31	16q24.2	
FBXO38	5q32	https://www.omim.org/entry/608533
FBXO43	8q22.2	https://www.omim.org/entry/609110

FBXO7	22q12.3	https://www.omim.org/entry/605648
FBXW11	5q35.1	https://www.omim.org/entry/605651
FBXW7	4q31.3	https://www.omim.org/entry/606278
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FCGR3A	1q23.3	https://www.omim.org/entry/146740
FCGR3B	1q23.3	
FCHO1	19p13.11	https://www.omim.org/entry/613437
FCN3	1p36.11	https://www.omim.org/entry/604973
FCSK	16q22.1	https://www.omim.org/entry/608675
FDFT1	8p23.1	https://www.omim.org/entry/184420
FDPS	1q22	https://www.omim.org/entry/134629
FDX2	19p13.2	https://www.omim.org/entry/614585
FDXR	17q25.1	https://www.omim.org/entry/103270
FECH	18q21.31	https://www.omim.org/entry/612386
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FEM1C	5q22.3	
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FERMT3	11q13.1	https://www.omim.org/entry/607901
FERRY3	12p13.32	https://www.omim.org/entry/616082
FEZF1	7q31.32	https://www.omim.org/entry/613301
FEZF2	3p14.2	
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FGB	4q31.3	https://www.omim.org/entry/134830
FGD1	Xp11.22	https://www.omim.org/entry/300546
FGD4	12p11.21	https://www.omim.org/entry/611104
FGF10	5p12	https://www.omim.org/entry/602115
FGF12	3q28-q29	https://www.omim.org/entry/601513
FGF13	Xq26.3-q27.1	https://www.omim.org/entry/300070
FGF14	13q33.1	https://www.omim.org/entry/601515
FGF16	Xq21.1	https://www.omim.org/entry/300827
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FGF3	11q13.3	https://www.omim.org/entry/164950
FGF5	4q21.21	https://www.omim.org/entry/165190
FGF8	10q24.32	https://www.omim.org/entry/600483
FGF9	13q12.11	https://www.omim.org/entry/600921
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FGFR2	10q26.13	https://www.omim.org/entry/176943
FGFR3	4p16.3	https://www.omim.org/entry/134934
FGFR4	5q35.2	
FGG	4q32.1	https://www.omim.org/entry/134850
FH	1q43	https://www.omim.org/entry/136850
FHL1	Xq26.3	https://www.omim.org/entry/300163
FHOD3	18q12.2	https://www.omim.org/entry/609691
FIBP	11q13.1	https://www.omim.org/entry/608296
FICD	12q23.3	https://www.omim.org/entry/620875
FIG4	6q21	https://www.omim.org/entry/609390
FIGLA	2p13.3	https://www.omim.org/entry/608697
FILIP1	6q14.1	https://www.omim.org/entry/607307
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FKBP14	7p14.3	https://www.omim.org/entry/614505
FKBP4	12p13.33	
FKBP6	7q11.23	https://www.omim.org/entry/604839
FKRP	19q13.32	https://www.omim.org/entry/606596
FKTN	9q31.2	https://www.omim.org/entry/607440
FLAD1	1q21.3	https://www.omim.org/entry/610595
FLCN	17p11.2	https://www.omim.org/entry/607273
FLG	1q21.3	https://www.omim.org/entry/135940
FLG2	1q21.3	https://www.omim.org/entry/616284
FLI1	11q24.3	https://www.omim.org/entry/193067
FLII	17p11.2	https://www.omim.org/entry/600362
FLNA	Xq28	https://www.omim.org/entry/300017
FLNB	3p14.3	https://www.omim.org/entry/603381
FLNC	7q32.1	https://www.omim.org/entry/102565
FLRT3	20p12.1	https://www.omim.org/entry/604808
FLT3	13q12.2	https://www.omim.org/entry/136351
FLT4	5q35.3	https://www.omim.org/entry/136352
FLVCR1	1q32.3	https://www.omim.org/entry/609144
FLVCR2	14q24.3	https://www.omim.org/entry/610865
FMN2	1q43	https://www.omim.org/entry/606373
FMO3	1q24.3	https://www.omim.org/entry/136132
FMR1	Xq27.3	https://www.omim.org/entry/309550
FN1	2q35	https://www.omim.org/entry/135600
FNIP1	5q31.1	https://www.omim.org/entry/610594
FOCAD	9p21.3	https://www.omim.org/entry/614606
FOLR1	11q13.4	https://www.omim.org/entry/136430
FOSL2	2p23.2	https://www.omim.org/entry/601575
FOXA2	20p11.21	
FOXC1	6p25.3	https://www.omim.org/entry/601090
FOXC2	16q24.1	https://www.omim.org/entry/602402
FOXD3	1p31.3	
FOX E1	9q22.33	https://www.omim.org/entry/602617
FOX E3	1p33	https://www.omim.org/entry/601094
FOX F1	16q24.1	https://www.omim.org/entry/601089
FOX G1	14q12	https://www.omim.org/entry/164874
FOX H1	8q24.3	
FOX I1	5q35.1	https://www.omim.org/entry/601093
FOX I3	2p11.2	https://www.omim.org/entry/612351
FOX J1	17q25.1	https://www.omim.org/entry/602291
FOX L1	16q24.1	https://www.omim.org/entry/603252
FOX L2	3q22.3	https://www.omim.org/entry/605597
FOX N1	17q11.2	https://www.omim.org/entry/600838
FOX O1	13q14.11	https://www.omim.org/entry/136533
FOX P1	3p13	https://www.omim.org/entry/605515
FOX P2	7q31.1	https://www.omim.org/entry/605317
FOX P3	Xp11.23	https://www.omim.org/entry/300292
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FOXRED1	11q24.2	https://www.omim.org/entry/613622

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FPR2	19q13.41	
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FRAS1	4q21.21	https://www.omim.org/entry/607830
FREM1	9p22.3	https://www.omim.org/entry/608944
FREM2	13q13.3	https://www.omim.org/entry/608945
FRMD4A	10p13	
FRMD5	15q15.3	https://www.omim.org/entry/616309
FRMD7	Xq26.2	https://www.omim.org/entry/300628
FRMPD4	Xp22.2	https://www.omim.org/entry/300838
FRRS1L	9q31.3	https://www.omim.org/entry/604574
FRY	13q13.1	
FRYL	4p11	
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FSD1L	9q31.2	
FSHB	11p14.1	https://www.omim.org/entry/136530
FSHR	2p16.3	https://www.omim.org/entry/136435
FSIP2	2q32.1	https://www.omim.org/entry/615796
FTCD	21q22.3	https://www.omim.org/entry/606806
FTH1	11q12.3	https://www.omim.org/entry/134770
FTL	19q13.33	https://www.omim.org/entry/134790
FTO	16q12.2	https://www.omim.org/entry/610966
FTSJ1	Xp11.23	https://www.omim.org/entry/300499
FUCA1	1p36.11	https://www.omim.org/entry/612280
FUS	16p11.2	https://www.omim.org/entry/137070
FUT1	19q13.33	
FUT2	19q13.33	
FUT8	14q23.3	https://www.omim.org/entry/602589
FUZ	19q13.33	
FXN	9q21.11	https://www.omim.org/entry/606829
FXR1	3q26.33	https://www.omim.org/entry/600819
FXYD2	11q23.3	https://www.omim.org/entry/601814
FYB1	5p13.1	https://www.omim.org/entry/602731
FYCO1	3p21.31	https://www.omim.org/entry/607182
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FZD6	8q22.3	https://www.omim.org/entry/603409
FZR1	19p13.3	https://www.omim.org/entry/603619
G6PC1	17q21.31	https://www.omim.org/entry/613742
G6PC3	17q21.31	https://www.omim.org/entry/611045
G6PD	Xq28	https://www.omim.org/entry/305900
GAA	17q25.3	https://www.omim.org/entry/606800
GABBR1	6p22.1	https://www.omim.org/entry/603540
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GABRA2	4p12	https://www.omim.org/entry/137140
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GABRA4	4p12	
GABRA5	15q12	https://www.omim.org/entry/137142

GABRB1	4p12	https://www.omim.org/entry/137190
GABRB2	5q34	https://www.omim.org/entry/600232
GABRB3	15q12	https://www.omim.org/entry/137192
GABRD	1p36.33	
GABRE	Xq28	
GABRG2	5q34	https://www.omim.org/entry/137164
GAD1	2q31.1	https://www.omim.org/entry/605363
GALC	14q31.3	https://www.omim.org/entry/606890
GALE	1p36.11	https://www.omim.org/entry/606953
GALK1	17q25.1	https://www.omim.org/entry/604313
GALM	2p22.1	https://www.omim.org/entry/137030
GALNS	16q24.3	https://www.omim.org/entry/612222
GALNT12	9q22.33	
GALNT2	1q42.13	https://www.omim.org/entry/602274
GALNT3	2q24.3	https://www.omim.org/entry/601756
GALT	9p13.3	https://www.omim.org/entry/606999
GAMT	19p13.3	https://www.omim.org/entry/601240
GAN	16q23.2	https://www.omim.org/entry/605379
GANAB	11q12.3	https://www.omim.org/entry/104160
GARS1	7p14.3	https://www.omim.org/entry/600287
GAS2L2	17q12	
GAS8	16q24.3	https://www.omim.org/entry/605178
GATA1	Xp11.23	https://www.omim.org/entry/305371
GATA2	3q21.3	https://www.omim.org/entry/137295
GATA3	10p14	https://www.omim.org/entry/131320
GATA4	8p23.1	https://www.omim.org/entry/600576
GATA5	20q13.33	https://www.omim.org/entry/611496
GATA6	18q11.2	https://www.omim.org/entry/601656
GATAD2A	19p13.11	
GATAD2B	1q21.3	https://www.omim.org/entry/614998
GATB	4q31.3	
GATC	12q24.31	https://www.omim.org/entry/617210
GATM	15q21.1	https://www.omim.org/entry/602360
GBA1	1q22	https://www.omim.org/entry/606463
GBA2	9p13.3	https://www.omim.org/entry/609471
GBE1	3p12.2	https://www.omim.org/entry/607839
GBF1	10q24.32	https://www.omim.org/entry/603698
GC	4q13.3	
GCDH	19p13.13	https://www.omim.org/entry/608801
GCGR	17q25.3	https://www.omim.org/entry/138033
GCH1	14q22.2	https://www.omim.org/entry/600225
GCK	7p13	https://www.omim.org/entry/138079
GCKR	2p23.3	
GCLC	6p12.1	https://www.omim.org/entry/606857
GCM2	6p24.2	https://www.omim.org/entry/603716
GCNA	Xq13.1	https://www.omim.org/entry/300369
GCNT2	6p24.3-p24.2	https://www.omim.org/entry/600429
GCSH	16q23.2	https://www.omim.org/entry/238330
GDAP1	8q21.11	https://www.omim.org/entry/606598
GDAP2	1p12	https://www.omim.org/entry/618128

GDF1	19p13.11	https://www.omim.org/entry/602880
GDF11	12q13.2	
GDF2	10q11.22	https://www.omim.org/entry/605120
GDF3	12p13.31	https://www.omim.org/entry/606522
GDF5	20q11.22	https://www.omim.org/entry/601146
GDF6	8q22.1	https://www.omim.org/entry/601147
GDF9	5q31.1	https://www.omim.org/entry/601918
GDI1	Xq28	https://www.omim.org/entry/300104
GDNF	5p13.2	
GEMIN4	17p13.3	https://www.omim.org/entry/606969
GEMIN5	5q33.2	https://www.omim.org/entry/607005
GFAP	17q21.31	https://www.omim.org/entry/137780
GFER	16p13.3	https://www.omim.org/entry/600924
GFI1	1p22.1	https://www.omim.org/entry/600871
GFI1B	9q34.13	https://www.omim.org/entry/604383
GFM1	3q25.32	https://www.omim.org/entry/606639
GFM2	5q13.3	https://www.omim.org/entry/606544
GFPT1	2p13.3	https://www.omim.org/entry/138292
GFRA1	10q25.3	https://www.omim.org/entry/601496
GGCX	2p11.2	https://www.omim.org/entry/137167
GGN	19q13.2	https://www.omim.org/entry/609966
GGPS1	1q42.3	https://www.omim.org/entry/606982
GH1	17q23.3	https://www.omim.org/entry/139250
GHR	5p13.1-p12	https://www.omim.org/entry/600946
GHRHR	7p14.3	https://www.omim.org/entry/139191
GHSR	3q26.31	https://www.omim.org/entry/601898
GIGYF1	7q22.1	
GIGYF2	2q37.1	
GIMAP5	7q36.1	https://www.omim.org/entry/608086
GIMAP6	7q36.1	
GINS1	20p11.21	https://www.omim.org/entry/610608
GINS3	16q21	
GIPC1	19p13.12	https://www.omim.org/entry/605072
GIPC3	19p13.3	https://www.omim.org/entry/608792
GIT1	17q11.2	
GJA1	6q22.31	https://www.omim.org/entry/121014
GJA3	13q12.11	https://www.omim.org/entry/121015
GJA4	1p34.3	
GJA5	1q21.2	https://www.omim.org/entry/121013
GJA8	1q21.2	https://www.omim.org/entry/600897
GJB1	Xq13.1	https://www.omim.org/entry/304040
GJB2	13q12.11	https://www.omim.org/entry/121011
GJB3	1p34.3	https://www.omim.org/entry/603324
GJB4	1p34.3	https://www.omim.org/entry/605425
GJB6	13q12.11	https://www.omim.org/entry/604418
GJC2	1q42.13	https://www.omim.org/entry/608803
GJC3	7q22.1	
GK	Xp21.2	https://www.omim.org/entry/300474
GLA	Xq22.1	https://www.omim.org/entry/300644
GLB1	3p22.3	https://www.omim.org/entry/611458

GLDC	9p24.1	https://www.omim.org/entry/238300
GLDN	15q21.2	https://www.omim.org/entry/608603
GLE1	9q34.11	https://www.omim.org/entry/603371
GLI1	12q13.3	https://www.omim.org/entry/165220
GLI2	2q14.2	https://www.omim.org/entry/165230
GLI3	7p14.1	https://www.omim.org/entry/165240
GLIS2	16p13.3	https://www.omim.org/entry/608539
GLIS3	9p24.2	https://www.omim.org/entry/610192
GLMN	1p22.1	https://www.omim.org/entry/601749
GLRA1	5q33.1	https://www.omim.org/entry/138491
GLRA2	Xp22.2	https://www.omim.org/entry/305990
GLRB	4q32.1	https://www.omim.org/entry/138492
GLRX5	14q32.13	https://www.omim.org/entry/609588
GLS	2q32.2	https://www.omim.org/entry/138280
GLT8D1	3p21.1	
GLUD1	10q23.2	https://www.omim.org/entry/138130
GLUL	1q25.3	https://www.omim.org/entry/138290
GLYCTK	3p21.2	https://www.omim.org/entry/610516
GM2A	5q33.1	https://www.omim.org/entry/613109
GMNN	6p22.3	https://www.omim.org/entry/602842
GMPPA	2q35	https://www.omim.org/entry/615495
GMPPB	3p21.31	https://www.omim.org/entry/615320
GNA11	19p13.3	https://www.omim.org/entry/139313
GNA14	9q21.2	
GNAI1	7q21.11	https://www.omim.org/entry/139310
GNAI2	3p21.31	https://www.omim.org/entry/139360
GNAI3	1p13.3	https://www.omim.org/entry/139370
GNAL	18p11.21	https://www.omim.org/entry/139312
GNAO1	16q13	https://www.omim.org/entry/139311
GNAQ	9q21.2	https://www.omim.org/entry/600998
GNAS	20q13.32	https://www.omim.org/entry/139320
GNAS-AS1	20q13.32	https://www.omim.org/entry/610540
GNAT1	3p21.31	https://www.omim.org/entry/139330
GNAT2	1p13.3	https://www.omim.org/entry/139340
GNB1	1p36.33	https://www.omim.org/entry/139380
GNB2	7q22.1	https://www.omim.org/entry/139390
GNB3	12p13.31	https://www.omim.org/entry/139130
GNB4	3q26.33	https://www.omim.org/entry/610863
GNB5	15q21.2	https://www.omim.org/entry/604447
GNE	9p13.3	https://www.omim.org/entry/603824
GNMT	6p21.1	https://www.omim.org/entry/606628
GNPAT	1q42.2	https://www.omim.org/entry/602744
GNPTAB	12q23.2	https://www.omim.org/entry/607840
GNPTG	16p13.3	https://www.omim.org/entry/607838
GNRH1	8p21.2	
GNRHR	4q13.2	https://www.omim.org/entry/138850
GNS	12q14.3	https://www.omim.org/entry/607664
GOLGA2	9q34.11	https://www.omim.org/entry/602580
GOLGA5	14q32.12	
GON4L	1q22	

GON7	14q32.12	https://www.omim.org/entry/617436
GORAB	1q24.2	https://www.omim.org/entry/607983
GOSR2	17q21.32	https://www.omim.org/entry/604027
GOT1	10q24.2	https://www.omim.org/entry/138180
GOT2	16q21	https://www.omim.org/entry/138150
GP1BA	17p13.2	https://www.omim.org/entry/606672
GP1BB	22q11.21	https://www.omim.org/entry/138720
GP6	19q13.42	https://www.omim.org/entry/605546
GP9	3q21.3	https://www.omim.org/entry/173515
GPAA1	8q24.3	https://www.omim.org/entry/603048
GPATCH11	2p22.2	
GPATCH3	1p36.11	
GPC3	Xq26.2	https://www.omim.org/entry/300037
GPC4	Xq26.2	https://www.omim.org/entry/300168
GPC6	13q31.3-q32.	https://www.omim.org/entry/604404
GPD1	12q13.12	https://www.omim.org/entry/138420
GPD1L	3p22.3	https://www.omim.org/entry/611778
GPHN	14q23.3	https://www.omim.org/entry/603930
GPI	19q13.11	https://www.omim.org/entry/172400
GPIHBP1	8q24.3	https://www.omim.org/entry/612757
GNMB	7p15.3	https://www.omim.org/entry/604368
GPR101	Xq26.3	https://www.omim.org/entry/300393
GPR143	Xp22.2	https://www.omim.org/entry/300808
GPR156	3q13.33	https://www.omim.org/entry/610464
GPR161	1q24.2	
GPR179	17q12	https://www.omim.org/entry/614515
GPR68	14q32.11	https://www.omim.org/entry/601404
GPRC5B	16p12.3	https://www.omim.org/entry/605948
GPSM2	1p13.3	https://www.omim.org/entry/609245
GPT2	16q11.2	https://www.omim.org/entry/138210
GPX4	19p13.3	https://www.omim.org/entry/138322
GRAP	17p11.2	https://www.omim.org/entry/604330
GRB10	7p12.1	
GREB1L	18q11.1-q11.	https://www.omim.org/entry/617782
GREM1	15q13.3	
GREM2	1q43	https://www.omim.org/entry/608832
GRHL2	8q22.3	https://www.omim.org/entry/608576
GRHL3	1p36.11	https://www.omim.org/entry/608317
GRHPR	9p13.2	https://www.omim.org/entry/604296
GRIA1	5q33.2	https://www.omim.org/entry/138248
GRIA2	4q32.1	https://www.omim.org/entry/138247
GRIA3	Xq25	https://www.omim.org/entry/305915
GRIA4	11q22.3	https://www.omim.org/entry/138246
GRID2	4q22.1-q22.2	https://www.omim.org/entry/602368
GRIK2	6q16.3	https://www.omim.org/entry/138244
GRIN1	9q34.3	https://www.omim.org/entry/138249
GRIN2A	16p13.2	https://www.omim.org/entry/138253
GRIN2B	12p13.1	https://www.omim.org/entry/138252
GRIN2C	17q25.1	
GRIN2D	19q13.33	https://www.omim.org/entry/602717

GRIN3A	9q31.1	
GRIN3B	19p13.3	
GRIP1	12q14.3	https://www.omim.org/entry/604597
GRK1	13q34	https://www.omim.org/entry/180381
GRM1	6q24.3	https://www.omim.org/entry/604473
GRM6	5q35.3	https://www.omim.org/entry/604096
GRM7	3p26.1	https://www.omim.org/entry/604101
GRN	17q21.31	https://www.omim.org/entry/138945
GRXCR1	4p13	https://www.omim.org/entry/613283
GRXCR2	5q32	
GSC	14q32.13	https://www.omim.org/entry/138890
GSDME	7p15.3	https://www.omim.org/entry/608798
GSN	9q33.2	https://www.omim.org/entry/137350
GSPT2	Xp11.22	
GSR	8p12	https://www.omim.org/entry/138300
GSS	20q11.22	https://www.omim.org/entry/601002
GSTZ1	14q24.3	
GSX2	4q12	https://www.omim.org/entry/616253
GTF2E2	8p12	https://www.omim.org/entry/189964
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GTF3C3	2q33.1	
GTF3C5	9q34.13	
GTPBP1	22q13.1	https://www.omim.org/entry/602245
GTPBP2	6p21.1	https://www.omim.org/entry/607434
GTPBP3	19p13.11	https://www.omim.org/entry/608536
GUCA1A	6p21.1	https://www.omim.org/entry/600364
GUCA1B	6p21.1	https://www.omim.org/entry/602275
GUCY1A1	4q32.1	https://www.omim.org/entry/139396
GUCY2C	12p12.3	https://www.omim.org/entry/601330
GUCY2D	17p13.1	https://www.omim.org/entry/600179
GUSB	7q11.21	https://www.omim.org/entry/611499
GYG1	3q24	https://www.omim.org/entry/603942
GYS1	19q13.33	https://www.omim.org/entry/138570
GYS2	12p12.1	https://www.omim.org/entry/138571
GZF1	20p11.21	https://www.omim.org/entry/613842
GZMA	5q11.2	
GZMB	14q12	
H1-4	6p22.2	https://www.omim.org/entry/142220
H19	11p15.5	
H3-3A	1q42.12	https://www.omim.org/entry/601128
H3-3B	17q25.1	https://www.omim.org/entry/601058
H4C3	6p22.2	https://www.omim.org/entry/602827
H4C5	6p22.2	https://www.omim.org/entry/602830
H4C9	6p22.1	https://www.omim.org/entry/602833
H6PD	1p36.22	https://www.omim.org/entry/138090
HAAO	2p21	https://www.omim.org/entry/604521
HACD1	10p12.33	https://www.omim.org/entry/610467
HACE1	6q16.3	https://www.omim.org/entry/610876
HADH	4q25	https://www.omim.org/entry/601609
HADHA	2p23.3	https://www.omim.org/entry/600890

HADHB	2p23.3	https://www.omim.org/entry/143450
HAL	12q23.1	
HAMP	19q13.12	https://www.omim.org/entry/606464
HAND1	5q33.2	
HARS1	5q31.3	https://www.omim.org/entry/142810
HARS2	5q31.3	https://www.omim.org/entry/600783
HAVCR1	5q33.3	
HAVCR2	5q33.3	https://www.omim.org/entry/606652
HAX1	1q21.3	https://www.omim.org/entry/605998
HBA1	16p13.3	https://www.omim.org/entry/141800
HBA2	16p13.3	https://www.omim.org/entry/141850
HBB	11p15.4	https://www.omim.org/entry/141900
HBD	11p15.4	https://www.omim.org/entry/142000
HBG1	11p15.4	https://www.omim.org/entry/142200
HBG2	11p15.4	https://www.omim.org/entry/142250
HCCS	Xp22.2	https://www.omim.org/entry/300056
HCFC1	Xq28	https://www.omim.org/entry/300019
HCK	20q11.21	https://www.omim.org/entry/142370
HCN1	5p12	https://www.omim.org/entry/602780
HCN2	19p13.3	https://www.omim.org/entry/602781
HCN4	15q24.1	https://www.omim.org/entry/605206
HDAC3	5q31.3	
HDAC4	2q37.3	https://www.omim.org/entry/605314
HDAC6	Xp11.23	
HDAC8	Xq13.1	https://www.omim.org/entry/300269
HEATR3	16q12.1	https://www.omim.org/entry/614951
HECTD4	12q24.13	https://www.omim.org/entry/620209
HECW2	2q32.3	https://www.omim.org/entry/617245
HELLS	10q23.33	https://www.omim.org/entry/603946
HEPACAM	11q24.2	https://www.omim.org/entry/611642
HEPHL1	11q21	
HERC1	15q22.31	https://www.omim.org/entry/605109
HERC2	15q13.1	https://www.omim.org/entry/605837
HES7	17p13.1	https://www.omim.org/entry/608059
HESX1	3p14.3	https://www.omim.org/entry/601802
HEXA	15q23	https://www.omim.org/entry/606869
HEXB	5q13.3	https://www.omim.org/entry/606873
HFE	6p22.2	https://www.omim.org/entry/613609
HFM1	1p22.2	https://www.omim.org/entry/615684
HGD	3q13.33	https://www.omim.org/entry/607474
HGF	7q21.11	https://www.omim.org/entry/142409
HGSNAT	8p11.21-p11.1	https://www.omim.org/entry/610453
HHAT	1q32.2	https://www.omim.org/entry/605743
HIBCH	2q32.2	https://www.omim.org/entry/610690
HID1	17q25.1	https://www.omim.org/entry/605752
HIF1A	14q23.2	
HIKESHI	11q14.2	https://www.omim.org/entry/614908
HINT1	5q23.3	https://www.omim.org/entry/601314
HIRA	22q11.21	
HIVEP2	6q24.2	https://www.omim.org/entry/143054

HJV	1q21.1	https://www.omim.org/entry/608374
HK1	10q22.1	https://www.omim.org/entry/142600
HKDC1	10q22.1	https://www.omim.org/entry/617221
HLA-A	6p22.1	
HLA-B	6p21.33	
HLA-DRB1	6p21.32	
HLCS	21q22.13	https://www.omim.org/entry/609018
HMBS	11q23.3	https://www.omim.org/entry/609806
HMGA2	12q14.3	https://www.omim.org/entry/600698
HMGB1	13q12.3	
HMGCL	1p36.11	https://www.omim.org/entry/613898
HMGCR	5q13.3	https://www.omim.org/entry/142910
HMGCS1	5p12	
HMGCS2	1p12	https://www.omim.org/entry/600234
HMOX1	22q12.3	https://www.omim.org/entry/141250
HMX1	4p16.1	https://www.omim.org/entry/142992
HNF1A	12q24.31	https://www.omim.org/entry/142410
HNF1B	17q12	https://www.omim.org/entry/189907
HNF4A	20q13.12	https://www.omim.org/entry/600281
HNMT	2q22.1	https://www.omim.org/entry/605238
HNRNPA1	12q13.13	https://www.omim.org/entry/164017
HNRNPA2B	7p15.2	https://www.omim.org/entry/600124
HNRNPC	14q11.2	https://www.omim.org/entry/164020
HNRNPD	4q21.22	
HNRNPDL	4q21.22	https://www.omim.org/entry/607137
HNRNPH1	5q35.3	https://www.omim.org/entry/601035
HNRNPH2	Xq22.1	https://www.omim.org/entry/300610
HNRNPK	9q21.32	https://www.omim.org/entry/600712
HNRNPR	1p36.12	https://www.omim.org/entry/607201
HNRNPU	1q44	https://www.omim.org/entry/602869
HNRNPUL2	11q12.3	
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HOMER2	15q25.2	
HOXA1	7p15.2	https://www.omim.org/entry/142955
HOXA11	7p15.2	https://www.omim.org/entry/142958
HOXA13	7p15.2	https://www.omim.org/entry/142959
HOXA2	7p15.2	https://www.omim.org/entry/604685
HOXB1	17q21.32	https://www.omim.org/entry/142968
HOXB13	17q21.32	
HOXC13	12q13.13	https://www.omim.org/entry/142976
HOXD10	2q31.1	https://www.omim.org/entry/142984
HOXD13	2q31.1	https://www.omim.org/entry/142989
HPCA	1p35.1	https://www.omim.org/entry/142622
HPD	12q24.31	https://www.omim.org/entry/609695
HPDL	1p34.1	https://www.omim.org/entry/618994
HPGD	4q34.1	https://www.omim.org/entry/601688
HPRT1	Xq26.2-q26.3	https://www.omim.org/entry/308000
HPS1	10q24.2	https://www.omim.org/entry/604982
HPS3	3q24	https://www.omim.org/entry/606118
HPS4	22q12.1	https://www.omim.org/entry/606682

HPS5	11p15.1	https://www.omim.org/entry/607521
HPS6	10q24.32	https://www.omim.org/entry/607522
HPSE2	10q24.2	https://www.omim.org/entry/613469
HR	8p21.3	https://www.omim.org/entry/602302
HRAS	11p15.5	https://www.omim.org/entry/190020
HRG	3q27.3	https://www.omim.org/entry/142640
HROB	17q21.31	https://www.omim.org/entry/618611
HRURF	8p21.3	https://www.omim.org/entry/619257
HS2ST1	1p22.3	https://www.omim.org/entry/604844
HS6ST1	2q14.3	
HSD11B1	1q32.2	https://www.omim.org/entry/600713
HSD11B2	16q22.1	https://www.omim.org/entry/614232
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HSD17B4	5q23.1	https://www.omim.org/entry/601860
HSD3B2	1p12	https://www.omim.org/entry/613890
HSD3B7	16p11.2	https://www.omim.org/entry/607764
HSF2BP	21q22.3	https://www.omim.org/entry/604554
HSF4	16q22.1	https://www.omim.org/entry/602438
HSPA1L	6p21.33	
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HSPG2	1p36.12	https://www.omim.org/entry/142461
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HTRA2	2p13.1	https://www.omim.org/entry/606441
HTT	4p16.3	https://www.omim.org/entry/613004
HUWE1	Xp11.22	https://www.omim.org/entry/300697
HYAL1	3p21.31	https://www.omim.org/entry/607071
HYAL2	3p21.31	
HYCC1	7p15.3	https://www.omim.org/entry/610531
HYDIN	16q22.2	https://www.omim.org/entry/610812
HYLS1	11q24.2	https://www.omim.org/entry/610693
HYOU1	11q23.3	
IARS1	9q22.31	https://www.omim.org/entry/600709
IARS2	1q41	https://www.omim.org/entry/612801
IBA57	1q42.13	https://www.omim.org/entry/615316
ICOS	2q33.2	https://www.omim.org/entry/604558
ICOSLG	21q22.3	
IDH1	2q34	
IDH2	15q26.1	https://www.omim.org/entry/147650
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IDH3B	20p13	https://www.omim.org/entry/604526
IDO1	8p11.21	
IDS	Xq28	https://www.omim.org/entry/300823
IDUA	4p16.3	https://www.omim.org/entry/252800
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IFIH1	2q24.2	https://www.omim.org/entry/606951

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IFNAR2	21q22.11	https://www.omim.org/entry/602376
IFNE	9p21.3	
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IFNGR1	6q23.3	https://www.omim.org/entry/107470
IFNGR2	21q22.11	https://www.omim.org/entry/147569
IFT122	3q21.3-q22.1	https://www.omim.org/entry/606045
IFT140	16p13.3	https://www.omim.org/entry/614620
IFT172	2p23.3	https://www.omim.org/entry/607386
IFT27	22q12.3	https://www.omim.org/entry/615870
IFT43	14q24.3	https://www.omim.org/entry/614068
IFT52	20q13.12	https://www.omim.org/entry/617094
IFT56	7q34	https://www.omim.org/entry/617453
IFT74	9p21.2	https://www.omim.org/entry/608040
IFT80	3q25.33	https://www.omim.org/entry/611177
IFT81	12q24.11	https://www.omim.org/entry/605489
IGF1	12q23.2	https://www.omim.org/entry/147440
IGF1R	15q26.3	https://www.omim.org/entry/147370
IGF2	11p15.5	https://www.omim.org/entry/147470
IGF2R	6q25.3	https://www.omim.org/entry/147280
IGFALS	16p13.3	https://www.omim.org/entry/601489
IGFBP7	4q12	https://www.omim.org/entry/602867
IGHMBP2	11q13.3	https://www.omim.org/entry/600502
IGLL1	22q11.23	https://www.omim.org/entry/146770
IGSF1	Xq26.1	https://www.omim.org/entry/300137
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IHH	2q35	https://www.omim.org/entry/600726
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IKBKG	Xq28	https://www.omim.org/entry/300248
IKZF1	7p12.2	https://www.omim.org/entry/603023
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IKZF3	17q12-q21.1	
IKZF5	10q26.13	https://www.omim.org/entry/606238
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IL10RA	11q23.3	https://www.omim.org/entry/146933
IL10RB	21q22.11	https://www.omim.org/entry/123889
IL11RA	9p13.3	https://www.omim.org/entry/600939
IL12B	5q33.3	https://www.omim.org/entry/161561
IL12RB1	19p13.11	https://www.omim.org/entry/601604
IL12RB2	1p31.3	
IL17A	6p12.2	
IL17F	6p12.2	
IL17RA	22q11.1	https://www.omim.org/entry/605461
IL17RC	3p25.3	https://www.omim.org/entry/610925
IL17RD	3p14.3	https://www.omim.org/entry/606807
IL18BP	11q13.4	
IL1B	2q14.1	

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IL36RN	2q14.1	https://www.omim.org/entry/605507
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IL6ST	5q11.2	https://www.omim.org/entry/600694
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IMPG2	3q12.3	https://www.omim.org/entry/607056
INF2	14q32.33	https://www.omim.org/entry/610982
ING1	13q34	https://www.omim.org/entry/601566
INHA	2q35	
INO80	15q15.1	
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INPPL1	11q13.4	https://www.omim.org/entry/600829
INS	11p15.5	https://www.omim.org/entry/176730
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INTU	4q28.1	
INVS	9q31.1	https://www.omim.org/entry/243305
IPO8	12p11.21	https://www.omim.org/entry/605600
IPP	1p34.1	
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IQCN	19p13.11	https://www.omim.org/entry/620160
IQSEC1	3p25.2	https://www.omim.org/entry/610166
IQSEC2	Xp11.22	https://www.omim.org/entry/300522
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IRF2	4q35.1	

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IRS1	2q36.3	
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ISCA1	9q21.33	https://www.omim.org/entry/611006
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ISCU	12q23.3	https://www.omim.org/entry/611911
ISG15	1p36.33	https://www.omim.org/entry/147571
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ITCH	20q11.22	https://www.omim.org/entry/606409
ITFG2	12p13.33	
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ITPA	20p13	https://www.omim.org/entry/147520
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JAM3	11q25	https://www.omim.org/entry/606871

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KRT83	12q13.13	https://www.omim.org/entry/602765
KRT85	12q13.13	https://www.omim.org/entry/602767
KRT86	12q13	https://www.omim.org/entry/601928
KRT9	17q21.2	https://www.omim.org/entry/607606
KSR2	12q24.22-q24.23	
KY	3q22.2	https://www.omim.org/entry/605739
KYNU	2q22.2	https://www.omim.org/entry/605197
L1CAM	Xq28	https://www.omim.org/entry/308840
L2HGDH	14q21.3	https://www.omim.org/entry/609584
L3MBTL1	20q13.12	
LACC1	13q14.11	https://www.omim.org/entry/613409
LAG3	12p13.31	
LAGE3	Xq28	https://www.omim.org/entry/300060
LAMA1	18p11.31	https://www.omim.org/entry/150320
LAMA2	6q22.33	https://www.omim.org/entry/156225
LAMA3	18q11.2	https://www.omim.org/entry/600805
LAMA4	6q21	https://www.omim.org/entry/600133
LAMA5	20q13.33	https://www.omim.org/entry/601033
LAMB1	7q31.1	https://www.omim.org/entry/150240
LAMB2	3p21.31	https://www.omim.org/entry/150325
LAMB3	1q32.2	https://www.omim.org/entry/150310
LAMC2	1q25.3	https://www.omim.org/entry/150292
LAMC3	9q34.12	https://www.omim.org/entry/604349
LAMP2	Xq24	https://www.omim.org/entry/309060

LAMTOR2	1q22	https://www.omim.org/entry/610389
LARGE1	22q12.3	https://www.omim.org/entry/603590
LARP1	5q33.2	
LARP7	4q25	https://www.omim.org/entry/612026
LARS1	5q32	
LARS2	3p21.31	https://www.omim.org/entry/604544
LAS1L	Xq12	https://www.omim.org/entry/300964
LAT	16p11.2	https://www.omim.org/entry/602354
LBR	1q42.12	https://www.omim.org/entry/600024
LCA5	6q14.1	https://www.omim.org/entry/611408
LCAT	16q22.1	https://www.omim.org/entry/606967
LCK	1p35.2	https://www.omim.org/entry/153390
LCP2	5q35.1	https://www.omim.org/entry/601603
LCT	2q21.3	https://www.omim.org/entry/603202
LDB3	10q23.2	https://www.omim.org/entry/605906
LDHA	11p15.1	https://www.omim.org/entry/150000
LDHB	12p12.1	
LDHD	16q23.1	https://www.omim.org/entry/607490
LDLR	19p13.2	https://www.omim.org/entry/606945
LDLRAP1	1p36.11	https://www.omim.org/entry/605747
LEF1	4q25	
LEMD2	6p21.31	https://www.omim.org/entry/616312
LEMD3	12q14.3	https://www.omim.org/entry/607844
LEO1	15q21.2	
LEP	7q32.1	https://www.omim.org/entry/164160
LEPR	1p31.3	https://www.omim.org/entry/601007
LETM1	4p16.3	https://www.omim.org/entry/604407
LFNG	7p22.3	https://www.omim.org/entry/602576
LGI1	10q23.33	https://www.omim.org/entry/604619
LGI3	8p21.3	https://www.omim.org/entry/608302
LGI4	19q13.12	https://www.omim.org/entry/608303
LGR4	11p14.1	https://www.omim.org/entry/606666
LHB	19q13.33	https://www.omim.org/entry/152780
LHCGR	2p16.3	https://www.omim.org/entry/152790
LHFPL5	6p21.31	https://www.omim.org/entry/609427
LHX2	9q33.3	
LHX3	9q34.3	https://www.omim.org/entry/600577
LHX4	1q25.2	https://www.omim.org/entry/602146
LHX8	1p31.1	
LIAS	4p14	https://www.omim.org/entry/607031
LIFR	5p13.1	https://www.omim.org/entry/151443
LIG1	19q13.33	https://www.omim.org/entry/126391
LIG3	17q12	https://www.omim.org/entry/600940
LIG4	13q33.3	https://www.omim.org/entry/601837
LIM2	19q13.41	https://www.omim.org/entry/154045
LINGO1	15q24.3	https://www.omim.org/entry/609791
LINGO4	1q21.3	
LINS1	15q26.3	https://www.omim.org/entry/610350
LIPA	10q23.31	https://www.omim.org/entry/613497
LIPC	15q21.3	https://www.omim.org/entry/151670

LIPE	19q13.2	https://www.omim.org/entry/151750
LIPG	18q21.1	
LIPH	3q27.2	https://www.omim.org/entry/607365
LIPN	10q23.31	https://www.omim.org/entry/613924
LIPT1	2q11.2	https://www.omim.org/entry/610284
LIPT2	11q13.4	https://www.omim.org/entry/617659
LITAF	16p13.13	https://www.omim.org/entry/603795
LMAN1	18q21.32	https://www.omim.org/entry/601567
LMBR1	7q36.3	https://www.omim.org/entry/605522
LMBRD1	6q13	https://www.omim.org/entry/612625
LMBRD2	5p13.2	https://www.omim.org/entry/619490
LMF1	16p13.3	https://www.omim.org/entry/611761
LMNA	1q22	https://www.omim.org/entry/150330
LMNB1	5q23.2	https://www.omim.org/entry/150340
LMNB2	19p13.3	https://www.omim.org/entry/150341
LMOD1	1q32.1	
LMOD2	7q31.32	https://www.omim.org/entry/608006
LMOD3	3p14.1	https://www.omim.org/entry/616112
LMX1A	1q23.3	https://www.omim.org/entry/600298
LMX1B	9q33.3	https://www.omim.org/entry/602575
LNPK	2q31.1	https://www.omim.org/entry/610236
LONP1	19p13.2	https://www.omim.org/entry/605490
LORICRIN	1q21.3	https://www.omim.org/entry/152445
LOX	5q23.1	https://www.omim.org/entry/153455
LOXHD1	18q21.1	https://www.omim.org/entry/613072
LOXL1	15q24.1	
LOXL3	2p13.1	https://www.omim.org/entry/607163
LPAR6	13q14.2	https://www.omim.org/entry/609239
LPIN1	2p25.1	https://www.omim.org/entry/605518
LPIN2	18p11.31	https://www.omim.org/entry/605519
LPL	8p21.3	https://www.omim.org/entry/609708
LPP	3q27.3-q28	https://www.omim.org/entry/600700
LRAT	4q32.1	https://www.omim.org/entry/604863
LRBA	4q31.3	https://www.omim.org/entry/606453
LRIG2	1p13.2	https://www.omim.org/entry/608869
LRIT3	4q25	https://www.omim.org/entry/615004
LRMDA	10q22.2-q22.2	https://www.omim.org/entry/614537
LRP1	12q13.3	https://www.omim.org/entry/107770
LRP10	14q11.2	
LRP12	8q22.3	https://www.omim.org/entry/618299
LRP1B	2q22.1-q22.2	
LRP2	2q31.1	https://www.omim.org/entry/600073
LRP4	11p11.2	https://www.omim.org/entry/604270
LRP5	11q13.2	https://www.omim.org/entry/603506
LRP6	12p13.2	https://www.omim.org/entry/603507
LRPAP1	4p16.3	https://www.omim.org/entry/104225
LRPPRC	2p21	https://www.omim.org/entry/607544
LRRC23	12p13.31	https://www.omim.org/entry/620708
LRRC32	11q13.5	https://www.omim.org/entry/137207
LRRC56	11p15.5	https://www.omim.org/entry/618227

LRRC7	1p31.1	
LRRFIP2	3p22.2	
LRRK1	15q26.3	https://www.omim.org/entry/610986
LRRK2	12q12	
LRSAM1	9q33.3-q34.1	https://www.omim.org/entry/610933
LRTOMT	11q13.4	https://www.omim.org/entry/612414
LSS	21q22.3	https://www.omim.org/entry/600909
LTBP1	2p22.3	https://www.omim.org/entry/150390
LTBP2	14q24.3	https://www.omim.org/entry/602091
LTBP3	11q13.1	https://www.omim.org/entry/602090
LTBP4	19q13.2	https://www.omim.org/entry/604710
LTV1	6q24.2	https://www.omim.org/entry/620074
LYN	8q12.1	https://www.omim.org/entry/165120
LYRM4	6p25.1	
LYRM7	5q23.3-q31.1	https://www.omim.org/entry/615831
LYSET	14q32.12	https://www.omim.org/entry/619332
LYST	1q42.3	https://www.omim.org/entry/606897
LYZ	12q15	https://www.omim.org/entry/153450
LZTFL1	3p21.31	https://www.omim.org/entry/606568
LZTR1	22q11.21	https://www.omim.org/entry/600574
LZTS1	8p21.3	https://www.omim.org/entry/606551
M1AP	2p13.1	https://www.omim.org/entry/619098
MAB21L1	13q13.3	https://www.omim.org/entry/601280
MAB21L2	4q31.3	https://www.omim.org/entry/604357
MACF1	1p34.3	https://www.omim.org/entry/608271
MAD1L1	7p22.3	https://www.omim.org/entry/602686
MAD2L2	1p36.22	
MADD	11p11.2	https://www.omim.org/entry/603584
MAF	16q23.2	https://www.omim.org/entry/177075
MAFA	8q24.3	https://www.omim.org/entry/610303
MAFB	20q12	https://www.omim.org/entry/608968
MAG	19q13.1	https://www.omim.org/entry/159460
MAGED2	Xp11.21	https://www.omim.org/entry/300470
MAGEL2	15q11.2	https://www.omim.org/entry/605283
MAGI2	7q21.11	https://www.omim.org/entry/606382
MAGT1	Xq21.1	https://www.omim.org/entry/300715
MAK	6p24.2	https://www.omim.org/entry/154235
MALT1	18q21.32	https://www.omim.org/entry/604860
MAML2	11q21	https://www.omim.org/entry/607537
MAMLD1	Xq28	https://www.omim.org/entry/300120
MAN1B1	9q34.3	https://www.omim.org/entry/604346
MAN2B1	19p13.13	https://www.omim.org/entry/609458
MAN2C1	15q24.2	https://www.omim.org/entry/154580
MANBA	4q24	https://www.omim.org/entry/609489
MANF	3p21.2	https://www.omim.org/entry/601916
MAOA	Xp11.3	https://www.omim.org/entry/309850
MAP1B	5q13.2	https://www.omim.org/entry/157129
MAP2K1	15q22.31	https://www.omim.org/entry/176872
MAP2K2	19p13.3	https://www.omim.org/entry/601263
MAP3K1	5q11.2	https://www.omim.org/entry/600982

MAP3K14	17q21.31	https://www.omim.org/entry/604655
MAP3K20	2q31.1	https://www.omim.org/entry/609479
MAP3K3	17q23.3	
MAP3K6	1p36.11	
MAP3K7	6q15	https://www.omim.org/entry/602614
MAP3K8	10p11.23	https://www.omim.org/entry/191195
MAP4K4	2q11.2	
MAPK1	22q11.22	https://www.omim.org/entry/176948
MAPK8IP3	16p13.3	https://www.omim.org/entry/605431
MAPKAPK5	12q24.12-q24.13	https://www.omim.org/entry/606723
MAPKBP1	15q15.1	https://www.omim.org/entry/616786
MAPRE2	18q12.1-q12.2	https://www.omim.org/entry/605789
MAPT	17q21.31	https://www.omim.org/entry/157140
MARCHF6	5p15.2	https://www.omim.org/entry/613297
MARK2	11q13.1	
MARS1	12q13.3	https://www.omim.org/entry/156560
MARS2	2q33.1	https://www.omim.org/entry/609728
MARVELD2	5q13.2	https://www.omim.org/entry/610572
MASP1	3q27.3	https://www.omim.org/entry/600521
MASP2	1p36.22	https://www.omim.org/entry/605102
MAST1	19p13.13	https://www.omim.org/entry/612256
MAST3	19p13.11	https://www.omim.org/entry/612258
MAST4	5q12.3	
MAT1A	10q22.3	https://www.omim.org/entry/610550
MATN3	2p24.1	https://www.omim.org/entry/602109
MATR3	5q31.2	https://www.omim.org/entry/164015
MAX	14q23.3	https://www.omim.org/entry/154950
MB	22q12.3	https://www.omim.org/entry/160000
MBD4	3q21.3	https://www.omim.org/entry/603574
MBD5	2q23.1	https://www.omim.org/entry/611472
MBOAT7	19q13.42	https://www.omim.org/entry/606048
MBTPS1	16q23.3-q24.1	
MBTPS2	Xp22.12	https://www.omim.org/entry/300294
MC1R	16q24.3	
MC2R	18p11.21	https://www.omim.org/entry/607397
MC3R	20q13.2	
MC4R	18q21.32	https://www.omim.org/entry/155541
MCAT	22q13.2	https://www.omim.org/entry/614479
MCC	5q22.2	https://www.omim.org/entry/159350
MCCC1	3q27.1	https://www.omim.org/entry/609010
MCCC2	5q13.2	https://www.omim.org/entry/609014
MCEE	2p13.3	https://www.omim.org/entry/608419
MCFD2	2p21	https://www.omim.org/entry/607788
MCIDAS	5q11.2	https://www.omim.org/entry/614086
MCM10	10p13	https://www.omim.org/entry/609357
MCM3AP	21q22.3	https://www.omim.org/entry/603294
MCM4	8q11.21	https://www.omim.org/entry/602638
MCM6	2q21.3	https://www.omim.org/entry/601806
MCM7	7q22.1	
MCM8	20p12.3	

MCM9	6q22.31	https://www.omim.org/entry/610098
MCOLN1	19p13.2	https://www.omim.org/entry/605248
MCPH1	8p23.1	https://www.omim.org/entry/607117
MCTS1	Xq24	https://www.omim.org/entry/300587
MDFIC	7q31.1-q31.2	https://www.omim.org/entry/614511
MDH2	7q11.23	https://www.omim.org/entry/154100
MDM2	12q15	
MECOM	3q26.2	https://www.omim.org/entry/165215
MECP2	Xq28	https://www.omim.org/entry/300005
MECR	1p35.3	https://www.omim.org/entry/608205
MED11	17p13.2	https://www.omim.org/entry/612383
MED12	Xq13.1	https://www.omim.org/entry/300188
MED12L	3q25.1	https://www.omim.org/entry/611318
MED13	17q23.2	https://www.omim.org/entry/603808
MED13L	12q24.21	https://www.omim.org/entry/608771
MED16	19p13.3	
MED17	11q21	https://www.omim.org/entry/603810
MED23	6q23.2	https://www.omim.org/entry/605042
MED25	19q13.33	https://www.omim.org/entry/610197
MED27	9q34.13	https://www.omim.org/entry/605044
MEF2C	5q14.3	https://www.omim.org/entry/600662
MEFV	16p13.3	https://www.omim.org/entry/608107
MEG3	14q32.2	
MEGF10	5q23.2	https://www.omim.org/entry/612453
MEGF8	19q13.2	https://www.omim.org/entry/604267
MEI1	22q13.2	https://www.omim.org/entry/608797
MEI4	6q14.1	
MEIOB	16p13.3	https://www.omim.org/entry/617670
MEIS2	15q14	https://www.omim.org/entry/601740
MEN1	11q13	https://www.omim.org/entry/613733
MEOX1	17q21.31	https://www.omim.org/entry/600147
MERTK	2q13	https://www.omim.org/entry/604705
MESD	15q25.1	https://www.omim.org/entry/607783
MESP2	15q26.1	https://www.omim.org/entry/605195
MEST	7q32.2	
MET	7q31.2	https://www.omim.org/entry/164860
METTL23	17q25.2	https://www.omim.org/entry/615262
METTL5	2q31.1	https://www.omim.org/entry/618628
MFAP5	12p13.31	https://www.omim.org/entry/601103
MFF	2q36.3	https://www.omim.org/entry/614785
MFN2	1p36.22	https://www.omim.org/entry/608507
MFRP	11q23.3	https://www.omim.org/entry/606227
MFSD2A	1p34.2	https://www.omim.org/entry/614397
MFSD8	4q28.2	https://www.omim.org/entry/611124
MGAT2	14q21.3	https://www.omim.org/entry/602616
MGME1	20p11.23	https://www.omim.org/entry/615076
MGMT	10q26.3	
MGP	12p12.3	https://www.omim.org/entry/154870
MIB1	18q11.2	https://www.omim.org/entry/608677
MICOS13	19p13.3	https://www.omim.org/entry/616658

MICU1	10q22.1	https://www.omim.org/entry/605084
MID1	Xp22.2	https://www.omim.org/entry/300552
MID2	Xq22.3	
MIEF1	22q13.1	https://www.omim.org/entry/615497
MINAR2	5q23.3	https://www.omim.org/entry/620215
MINPP1	10q23.2	https://www.omim.org/entry/605391
MIP	12q13.3	https://www.omim.org/entry/154050
MIPEP	13q12.12	https://www.omim.org/entry/602241
MIR140	16q22.1	https://www.omim.org/entry/611894
MIR17HG	13q31.3	
MIR184	15q25.1	https://www.omim.org/entry/613146
MIR204	9q21.12	https://www.omim.org/entry/610942
MIR96	7q32.2	https://www.omim.org/entry/611606
MITF	3p13	https://www.omim.org/entry/156845
MKKS	20p12.2	https://www.omim.org/entry/604896
MKRN3	15q11.2	https://www.omim.org/entry/603856
MKS1	17q22	https://www.omim.org/entry/609883
MLC1	22q13.33	https://www.omim.org/entry/605908
MLH1	3p22.2	https://www.omim.org/entry/120436
MLH3	14q24.3	https://www.omim.org/entry/604395
MLIP	6p12.1	https://www.omim.org/entry/614106
MLLT10	10p12.31	https://www.omim.org/entry/602409
MLPH	2q37.3	https://www.omim.org/entry/606526
MLYCD	16q23.3	https://www.omim.org/entry/606761
MMAA	4q31.21	https://www.omim.org/entry/607481
MMAB	12q24.11	https://www.omim.org/entry/607568
MMACHC	1p34.1	https://www.omim.org/entry/609831
MMADHC	2q23.2	https://www.omim.org/entry/611935
MME	3q25.2	https://www.omim.org/entry/120520
MMGT1	Xq26.3	
MMP13	11q22.2	https://www.omim.org/entry/600108
MMP14	14q11.2	https://www.omim.org/entry/600754
MMP19	12q13.2	https://www.omim.org/entry/601807
MMP2	16q12.2	https://www.omim.org/entry/120360
MMP20	11q22.2	https://www.omim.org/entry/604629
MMP21	10q26.2	https://www.omim.org/entry/608416
MMP9	20q13.12	https://www.omim.org/entry/120361
MMUT	6p12.3	https://www.omim.org/entry/609058
MN1	22q12.1	https://www.omim.org/entry/156100
MNS1	15q21.3	https://www.omim.org/entry/610766
MNX1	7q36.3	https://www.omim.org/entry/142994
MOCOS	18q12.2	https://www.omim.org/entry/613274
MOCS1	6p21.2	https://www.omim.org/entry/603707
MOCS2	5q11.2	https://www.omim.org/entry/603708
MOGS	2p13.1	https://www.omim.org/entry/601336
MORC2	22q12.2	https://www.omim.org/entry/616661
MOS	8q12.1	https://www.omim.org/entry/190060
MOV10L1	22q13.33	
MPC1	6q27	https://www.omim.org/entry/614738
MPDU1	17p13.1	https://www.omim.org/entry/604041

MPDZ	9p23	https://www.omim.org/entry/603785
MPEG1	11q12.1	https://www.omim.org/entry/610390
MPI	15q24.1	https://www.omim.org/entry/154550
MPIG6B	6p21.33	
MPL	1p34.2	https://www.omim.org/entry/159530
MPLKIP	7p14.1	https://www.omim.org/entry/609188
MPO	17q22	https://www.omim.org/entry/606989
MPV17	2p23.3	https://www.omim.org/entry/137960
MPZ	1q23.3	https://www.omim.org/entry/159440
MPZL2	11q23.3	https://www.omim.org/entry/604873
MRAP	21q22.11	https://www.omim.org/entry/609196
MRAP2	6q14.2	
MRAS	3q22.3	https://www.omim.org/entry/608435
MRE11	11q21	https://www.omim.org/entry/600814
MRM2	7p22.3	https://www.omim.org/entry/606906
MRPL3	3q22.1	https://www.omim.org/entry/607118
MRPL39	21q21.3	https://www.omim.org/entry/611845
MRPL44	2q36.1	https://www.omim.org/entry/611849
MRPL49	11q13.1	
MRPS16	10q22.2	https://www.omim.org/entry/609204
MRPS2	9q34.3	https://www.omim.org/entry/611971
MRPS22	3q23	https://www.omim.org/entry/605810
MRPS23	17q22	
MRPS34	16p13.3	https://www.omim.org/entry/611994
MS4A1	11q12.2	
MSH2	2p21-p16.3	https://www.omim.org/entry/609309
MSH3	5q14.1	https://www.omim.org/entry/600887
MSH4	1p31.1	https://www.omim.org/entry/602105
MSH5	6p21.33	https://www.omim.org/entry/603382
MSH6	2p16.3	https://www.omim.org/entry/600678
MSL2	3q22.3	https://www.omim.org/entry/614802
MSL3	Xp22.2	https://www.omim.org/entry/300609
MSMB	10q11.22	
MSMO1	4q32.3	https://www.omim.org/entry/607545
MSN	Xq12	https://www.omim.org/entry/309845
MSR1	8p22	https://www.omim.org/entry/153622
MSRB3	12q14.3	https://www.omim.org/entry/613719
MST1R	3p21.31	
MSTO1	1q22	https://www.omim.org/entry/617619
MSX1	4p16.2	https://www.omim.org/entry/142983
MSX2	5q35.2	https://www.omim.org/entry/123101
MTAP	9p21.3	https://www.omim.org/entry/156540
MT-ATP6	mitochondria	
MT-ATP8	mitochondria	
MTCL1	18p11.22	
MT-CO1	mitochondria	
MT-CO2	mitochondria	
MT-CO3	mitochondria	
MT-CYB	mitochondria	
MTFMT	15q22.31	https://www.omim.org/entry/611766

MTHFD1	14q23.3	https://www.omim.org/entry/172460
MTHFR	1p36.22	https://www.omim.org/entry/607093
MTHFS	15q25.1	https://www.omim.org/entry/604197
MTM1	Xq28	https://www.omim.org/entry/300415
MTMR2	11q21	https://www.omim.org/entry/603557
MT-ND1	mitochondria	
MT-ND2	mitochondria	
MT-ND3	mitochondria	
MT-ND4	mitochondria	
MT-ND4L	mitochondria	
MT-ND5	mitochondria	
MT-ND6	mitochondria	
MTNR1B	11q14.3	
MTO1	6q13	https://www.omim.org/entry/614667
MTOR	1p36.22	https://www.omim.org/entry/601231
MTPAP	10p11.23	
MTR	1q43	https://www.omim.org/entry/156570
MTRFR	12q24.31	https://www.omim.org/entry/613541
MT-RNR1	mitochondria	
MTRR	5p15.31	https://www.omim.org/entry/602568
MTSS2	16q22.1	https://www.omim.org/entry/616951
MT-TA	mitochondria	
MT-TC	mitochondria	
MT-TD	mitochondria	
MT-TE	mitochondria	
MT-TF	mitochondria	
MT-TG	mitochondria	
MT-TH	mitochondria	
MT-TI	mitochondria	
MT-TK	mitochondria	
MT-TL1	mitochondria	
MT-TL2	mitochondria	
MT-TM	mitochondria	
MT-TN	mitochondria	
MTPP	4q23	https://www.omim.org/entry/157147
MT-TP	mitochondria	
MT-TQ	mitochondria	
MT-TR	mitochondria	
MT-TS1	mitochondria	
MT-TS2	mitochondria	
MT-TT	mitochondria	
MT-TV	mitochondria	
MT-TW	mitochondria	
MT-TY	mitochondria	
MTX2	2q31.1	https://www.omim.org/entry/608555
MUC1	1q22	https://www.omim.org/entry/158340
MUC16	19p13.2	
MUC5B	11p15.5	
MUSK	9q31.3	https://www.omim.org/entry/601296
MUTYH	1p34.1	https://www.omim.org/entry/604933

MVD	16q24.2	https://www.omim.org/entry/603236
MVK	12q24.11	https://www.omim.org/entry/251170
MX1	21q22.3	
MXI1	10q25.2	https://www.omim.org/entry/600020
MYBBP1A	17p13.2	
MYBPC1	12q23.2	https://www.omim.org/entry/160794
MYBPC3	11p11.2	https://www.omim.org/entry/600958
MYC	8q24.21	https://www.omim.org/entry/190080
MYCBP2	13q22.3	
MYCN	2p24.3	https://www.omim.org/entry/164840
MYD88	3p22.2	https://www.omim.org/entry/602170
MYF5	12q21.31	https://www.omim.org/entry/159990
MYH1	17p13.1	
MYH10	17p13.1	
MYH11	16p13.11	https://www.omim.org/entry/160745
MYH14	19q13.33	https://www.omim.org/entry/608568
MYH2	17p13.1	https://www.omim.org/entry/160740
MYH3	17p13.1	https://www.omim.org/entry/160720
MYH6	14q11.2	https://www.omim.org/entry/160710
MYH7	14q11.2	https://www.omim.org/entry/160760
MYH7B	20q11.22	
MYH8	17p13.1	https://www.omim.org/entry/160741
MYH9	22q12.3	https://www.omim.org/entry/160775
MYL1	2q34	https://www.omim.org/entry/160780
MYL11	16p11.2	https://www.omim.org/entry/617378
MYL2	12q24.11	https://www.omim.org/entry/160781
MYL3	3p21.31	https://www.omim.org/entry/160790
MYL4	17q21.32	
MYL9	20q11.23	
MYLK	3q21.1	https://www.omim.org/entry/600922
MYLK2	20q11.21	https://www.omim.org/entry/606566
MYLK3	16q11.2	
MYMK	9q34.2	https://www.omim.org/entry/615345
MYO15A	17p11.2	https://www.omim.org/entry/602666
MYO18B	22q12.1	https://www.omim.org/entry/607295
MYO1A	12q13.3	
MYO1E	15q22.2	https://www.omim.org/entry/601479
MYO3A	10p12.1	https://www.omim.org/entry/606808
MYO5A	15q21.2	https://www.omim.org/entry/160777
MYO5B	18q21.1	https://www.omim.org/entry/606540
MYO6	6q14.1	https://www.omim.org/entry/600970
MYO7A	11q13.5	https://www.omim.org/entry/276903
MYO9A	15q23	https://www.omim.org/entry/604875
MYOC	1q24.3	https://www.omim.org/entry/601652
MYOCD	17p12	https://www.omim.org/entry/606127
MYOD1	11p15.1	https://www.omim.org/entry/159970
MYOM1	18p11.31	
MYORG	9p13.3	https://www.omim.org/entry/618255
MYOT	5q31.2	https://www.omim.org/entry/604103
MYOZ2	4q26	https://www.omim.org/entry/605602

MYPN	10q21.3	https://www.omim.org/entry/608517
MYRF	11q12.2	https://www.omim.org/entry/608329
MYSM1	1p32.1	https://www.omim.org/entry/612176
MYT1	20q13.33	
MYT1L	2p25.3	https://www.omim.org/entry/613084
MYZAP	15q21.3	https://www.omim.org/entry/614071
NAA10	Xq28	https://www.omim.org/entry/300013
NAA15	4q31.1	https://www.omim.org/entry/608000
NAA20	20p11.23	https://www.omim.org/entry/610833
NAA60	16p13.3	https://www.omim.org/entry/614246
NABP1	2q32.3	
NACC1	19p13.13	https://www.omim.org/entry/610672
NADK2	5p13.2	https://www.omim.org/entry/615787
NADSYN1	11q13.4	https://www.omim.org/entry/608285
NAE1	16q22.1	https://www.omim.org/entry/603385
NAF1	4q32.2	https://www.omim.org/entry/617868
NAGA	22q13.2	https://www.omim.org/entry/104170
NAGLU	17q21.2	https://www.omim.org/entry/609701
NAGS	17q21.31	https://www.omim.org/entry/608300
NALCN	13q32.3-q33.	https://www.omim.org/entry/611549
NANOS1	10q26.11	https://www.omim.org/entry/608226
NANS	9q22.33	https://www.omim.org/entry/605202
NAPB	20p11.21	https://www.omim.org/entry/611270
NARS1	18q21.31	https://www.omim.org/entry/108410
NARS2	11q14.1	https://www.omim.org/entry/612803
NAXD	13q34	https://www.omim.org/entry/615910
NAXE	1q22	https://www.omim.org/entry/608862
NBAS	2p24.3	https://www.omim.org/entry/608025
NBEA	13q13.3	https://www.omim.org/entry/604889
NBEAL2	3p21.31	https://www.omim.org/entry/614169
NBN	8q21.3	https://www.omim.org/entry/602667
NCAPD2	12p13.31	https://www.omim.org/entry/615638
NCAPD3	11q25	https://www.omim.org/entry/609276
NCAPG2	7q36.3	https://www.omim.org/entry/608532
NCDN	1p34.3	https://www.omim.org/entry/608458
NCF1	7q11.23	https://www.omim.org/entry/608512
NCF2	1q25.3	https://www.omim.org/entry/608515
NCF4	22q12.3	https://www.omim.org/entry/601488
NCKAP1	2q32.1	
NCKAP1L	12q13.13-q14	https://www.omim.org/entry/141180
NCOA4	10q11.22	
NCOR1	17p12-p11.2	
NCSTN	1q23.2	https://www.omim.org/entry/605254
NDC1	1p32.3	
NDE1	16p13.11	https://www.omim.org/entry/609449
NDNF	4q27	https://www.omim.org/entry/616506
NDP	Xp11.3	https://www.omim.org/entry/300658
NDRG1	8q24.22	https://www.omim.org/entry/605262
NDST1	5q33.1	https://www.omim.org/entry/600853
NDUFA1	Xq24	https://www.omim.org/entry/300078

NDUFA10	2q37.3	https://www.omim.org/entry/603835
NDUFA11	19p13.3	https://www.omim.org/entry/612638
NDUFA12	12q22	https://www.omim.org/entry/614530
NDUFA13	19p13.11	https://www.omim.org/entry/609435
NDUFA2	5q31.3	https://www.omim.org/entry/602137
NDUFA4	7p21.3	
NDUFA6	22q13.2	https://www.omim.org/entry/602138
NDUFA8	9q33.2	https://www.omim.org/entry/603359
NDUFA9	12p13.3	https://www.omim.org/entry/603834
NDUFAF1	15q15.1	https://www.omim.org/entry/606934
NDUFAF2	5q12.1	https://www.omim.org/entry/609653
NDUFAF3	3p21.31	https://www.omim.org/entry/612911
NDUFAF4	6q16.1	https://www.omim.org/entry/611776
NDUFAF5	20p12.1	https://www.omim.org/entry/612360
NDUFAF6	8q22.1	https://www.omim.org/entry/612392
NDUFAF8	17q25.3	https://www.omim.org/entry/618461
NDUFB10	16p13.3	
NDUFB11	Xp11.3	https://www.omim.org/entry/300403
NDUFB3	2q33.1	https://www.omim.org/entry/603839
NDUFB8	10q24.31	https://www.omim.org/entry/602140
NDUFC2	11q14.1	https://www.omim.org/entry/603845
NDUFS1	2q33.3	https://www.omim.org/entry/157655
NDUFS2	1q23.3	https://www.omim.org/entry/602985
NDUFS3	11p11.2	https://www.omim.org/entry/603846
NDUFS4	5q11.2	https://www.omim.org/entry/602694
NDUFS6	5p15.33	https://www.omim.org/entry/603848
NDUFS7	19p13.3	https://www.omim.org/entry/601825
NDUFS8	11q13.2	https://www.omim.org/entry/602141
NDUFV1	11q13.2	https://www.omim.org/entry/161015
NDUFV2	18p11.22	https://www.omim.org/entry/600532
NEB	2q23.3	https://www.omim.org/entry/161650
NEBL	10p12.31	
NECAP1	12p13.31	https://www.omim.org/entry/611623
NECTIN1	11q23.3	https://www.omim.org/entry/600644
NECTIN4	1q23.3	https://www.omim.org/entry/609607
NEDD4L	18q21.31	https://www.omim.org/entry/606384
NEFH	22q12.2	https://www.omim.org/entry/162230
NEFL	8p21.2	https://www.omim.org/entry/162280
NEK1	4q33	https://www.omim.org/entry/604588
NEK10	3p24.1	https://www.omim.org/entry/618726
NEK2	1q32.3	
NEK8	17q11.2	https://www.omim.org/entry/609799
NEK9	14q24.3	https://www.omim.org/entry/609798
NEMF	14q21.3	https://www.omim.org/entry/608378
NEPRO	3q13.2	https://www.omim.org/entry/617089
NEU1	6p21.33	https://www.omim.org/entry/608272
NEURL4	17p13.1	
NEUROD1	2q31.3	https://www.omim.org/entry/601724
NEUROD2	17q12	https://www.omim.org/entry/601725
NEUROG1	5q31.1	https://www.omim.org/entry/601726

NEUROG3	10q22.1	https://www.omim.org/entry/604882
NEXMIF	Xq13.3	https://www.omim.org/entry/300524
NEXN	1p31.1	https://www.omim.org/entry/613121
NF1	17q11.2	https://www.omim.org/entry/613113
NF2	22q12.2	https://www.omim.org/entry/607379
NFASC	1q32.1	https://www.omim.org/entry/609145
NFAT5	16q22.1	
NFATC1	18q23	
NFE2L2	2q31.2	https://www.omim.org/entry/600492
NFIA	1p31.3	https://www.omim.org/entry/600727
NFIB	9p23-p22.3	https://www.omim.org/entry/600728
NFIX	19p13.13	https://www.omim.org/entry/164005
NFKB1	4q24	https://www.omim.org/entry/164011
NFKB2	10q24.32	https://www.omim.org/entry/164012
NFKBIA	14q13.2	https://www.omim.org/entry/164008
NFS1	20q11.22	https://www.omim.org/entry/603485
NFU1	2p13.3	https://www.omim.org/entry/608100
NGF	1p13.2	https://www.omim.org/entry/162030
NGLY1	3p24.2	https://www.omim.org/entry/610661
NHEJ1	2q35	https://www.omim.org/entry/611290
NHERF1	17q25.1	https://www.omim.org/entry/604990
NHLRC1	6p22.3	https://www.omim.org/entry/608072
NHLRC2	10q25.3	https://www.omim.org/entry/618277
NHP2	5q35.3	https://www.omim.org/entry/606470
NHS	Xp22.2-p22.1	https://www.omim.org/entry/300457
NID1	1q42.3	
NIN	14q22.1	
NIPA1	15q11.2	https://www.omim.org/entry/608145
NIPAL4	5q33.3	https://www.omim.org/entry/609383
NIPBL	5p13.2	https://www.omim.org/entry/608667
NIT1	1q23.3	
NKAP	Xq24	https://www.omim.org/entry/300766
NKX2-1	14q13.3	https://www.omim.org/entry/600635
NKX2-2	20p11.22	
NKX2-5	5q35.1	https://www.omim.org/entry/600584
NKX2-6	8p21.2	https://www.omim.org/entry/611770
NKX3-2	4p15.33	https://www.omim.org/entry/602183
NKX6-2	10q26.3	https://www.omim.org/entry/605955
NLGN1	3q26.31	
NLGN2	17p13.1	
NLGN3	Xq13.1	
NLGN4X	Xp22.32-p22.1	https://www.omim.org/entry/300427
NLRC4	2p22.3	https://www.omim.org/entry/606831
NLRP1	17p13	https://www.omim.org/entry/606636
NLRP12	19q13.42	https://www.omim.org/entry/609648
NLRP2	19q13.42	https://www.omim.org/entry/609364
NLRP3	1q44	https://www.omim.org/entry/606416
NLRP5	19q13.43	https://www.omim.org/entry/609658
NLRP7	19q13.42	https://www.omim.org/entry/609661
NME5	5q31.2	https://www.omim.org/entry/603575

NME8	7p14.1	
NMNAT1	1p36.22	https://www.omim.org/entry/608700
NNT	5p12	https://www.omim.org/entry/607878
NOBOX	7q35	https://www.omim.org/entry/610934
NOD2	16q12.1	https://www.omim.org/entry/605956
NODAL	10q22.1	https://www.omim.org/entry/601265
NOG	17q22	https://www.omim.org/entry/602991
NONO	Xq13.1	https://www.omim.org/entry/300084
NOP10	15q14	
NOP56	20p13	https://www.omim.org/entry/614154
NOS1AP	1q23.3	https://www.omim.org/entry/605551
NOS2	17q11.2	
NOTCH1	9q34.3	https://www.omim.org/entry/190198
NOTCH2	1p12	https://www.omim.org/entry/600275
NOTCH3	19p13.12	https://www.omim.org/entry/600276
NOVA2	19q13.32	https://www.omim.org/entry/601991
NPC1	18q11.2	https://www.omim.org/entry/607623
NPC1L1	7p13	
NPC2	14q24.3	https://www.omim.org/entry/601015
NPHP1	2q13	https://www.omim.org/entry/607100
NPHP3	3q22.1	https://www.omim.org/entry/608002
NPHP4	1p36.31	https://www.omim.org/entry/607215
NPHS1	19q13.12	https://www.omim.org/entry/602716
NPHS2	1q25.2	https://www.omim.org/entry/604766
NPM1	5q35.1	https://www.omim.org/entry/164040
NPNT	4q24	
NPPA	1p36.22	https://www.omim.org/entry/108780
NPR1	1q21.3	
NPR2	9p13.3	https://www.omim.org/entry/108961
NPR3	5p13.3	https://www.omim.org/entry/108962
NPRL2	3p21.31	https://www.omim.org/entry/607072
NPRL3	16p13.3	https://www.omim.org/entry/600928
NPTX1	17q25.3	https://www.omim.org/entry/602367
NR0B1	Xp21.2	https://www.omim.org/entry/300473
NR0B2	1p36.11	https://www.omim.org/entry/604630
NR1H4	12q23.1	https://www.omim.org/entry/603826
NR2E3	15q23	https://www.omim.org/entry/604485
NR2F1	5q15	https://www.omim.org/entry/132890
NR2F2	15q26.2	https://www.omim.org/entry/107773
NR3C1	5q31.3	https://www.omim.org/entry/138040
NR3C2	4q31.23	https://www.omim.org/entry/600983
NR4A2	2q24.1	https://www.omim.org/entry/601828
NR4A3	9q31.1	https://www.omim.org/entry/600542
NR5A1	9q33.3	https://www.omim.org/entry/184757
NRAP	10q25.3	
NRAS	1p13.2	https://www.omim.org/entry/164790
NRCAM	7q31.1	https://www.omim.org/entry/601581
NRG1	8p12	
NRGN	11q24.2	
NRL	14q11.2-q12	https://www.omim.org/entry/162080

NRROS	3q29	https://www.omim.org/entry/615322
NRXN1	2p16.3	https://www.omim.org/entry/600565
NRXN2	11q13.1	
NSD1	5q35.3	https://www.omim.org/entry/606681
NSD2	4p16.3	https://www.omim.org/entry/602952
NSDHL	Xq28	https://www.omim.org/entry/300275
NSF	17q21.31	https://www.omim.org/entry/601633
NSMCE2	8q24.13	https://www.omim.org/entry/617246
NSMCE3	15q13.1	https://www.omim.org/entry/608243
NSMF	9q34.3	https://www.omim.org/entry/608137
NSRP1	17q11.2	https://www.omim.org/entry/616173
NSUN2	5p15.31	https://www.omim.org/entry/610916
NSUN3	3q11.2	https://www.omim.org/entry/617491
NSUN6	10p12.31	https://www.omim.org/entry/617199
NT5C2	10q24.32-q24.33	https://www.omim.org/entry/600417
NT5C3A	7p14.3	https://www.omim.org/entry/606224
NT5E	6q14.3	https://www.omim.org/entry/129190
NTF4	19q13.33	https://www.omim.org/entry/162662
NTHL1	16p13.3	https://www.omim.org/entry/602656
NTN1	17p13.1	https://www.omim.org/entry/601614
NTNG2	9q34.13	https://www.omim.org/entry/618689
NTRK1	1q23.1	https://www.omim.org/entry/191315
NTRK2	9q21.33	https://www.omim.org/entry/600456
NUBPL	14q12	https://www.omim.org/entry/613621
NUDCD3	7p13	
NUDT15	13q14.2	
NUDT2	9p13.3	https://www.omim.org/entry/602852
NUMA1	11q13.4	
NUP107	12q15	https://www.omim.org/entry/607617
NUP133	1q42.13	https://www.omim.org/entry/607613
NUP160	11p11.2	
NUP188	9q34.11	https://www.omim.org/entry/615587
NUP205	7q33	
NUP210	3p25.1	
NUP214	9q34.13	https://www.omim.org/entry/114350
NUP54	4q21.1	https://www.omim.org/entry/607607
NUP62	19q13.33	https://www.omim.org/entry/605815
NUP85	17q25.1	https://www.omim.org/entry/170285
NUP88	17p13.2	https://www.omim.org/entry/602552
NUP93	16q13	https://www.omim.org/entry/614351
NUS1	6q22.1	https://www.omim.org/entry/610463
NXN	17p13.3	https://www.omim.org/entry/612895
NXNL1	19p13.11	
NYX	Xp11.4	https://www.omim.org/entry/300278
OAS1	12q24.13	https://www.omim.org/entry/164350
OAS2	12q24.13	
OAT	10q26.13	https://www.omim.org/entry/613349
OBSCN	1q42.13	
OBSL1	2q35	https://www.omim.org/entry/610991
OCA2	15q12-q13.1	https://www.omim.org/entry/611409

OCLN	5q13.2	https://www.omim.org/entry/602876
OCRL	Xq26.1	https://www.omim.org/entry/300535
ODAD1	19q13.33	https://www.omim.org/entry/615038
ODAD2	10p12.1	https://www.omim.org/entry/615408
ODAD3	19p13.2	https://www.omim.org/entry/615956
ODAD4	17q21.2	https://www.omim.org/entry/617095
ODAPH	4q21.1	https://www.omim.org/entry/614829
ODC1	2p25.1	https://www.omim.org/entry/165640
OFD1	Xp22.2	https://www.omim.org/entry/300170
OGDH	7p13	https://www.omim.org/entry/613022
OGDHL	10q11.23	https://www.omim.org/entry/617513
OGG1	3p25.3	https://www.omim.org/entry/601982
OGT	Xq13.1	https://www.omim.org/entry/300255
ONECUT1	15q21.3	
OPA1	3q29	https://www.omim.org/entry/605290
OPA3	19q13.32	https://www.omim.org/entry/606580
OPCML	11q25	https://www.omim.org/entry/600632
OPHN1	Xq12	https://www.omim.org/entry/300127
OPLAH	8q24.3	https://www.omim.org/entry/614243
OPN1LW	Xq28	https://www.omim.org/entry/300822
OPN1MW	Xq28	https://www.omim.org/entry/300821
OPN1SW	7q32.1	https://www.omim.org/entry/613522
OPTN	10p13	https://www.omim.org/entry/602432
ORAI1	12q24.31	https://www.omim.org/entry/610277
ORC1	1p32.3	https://www.omim.org/entry/601902
ORC4	2q23.1	https://www.omim.org/entry/603056
ORC6	16q11.2	https://www.omim.org/entry/607213
OSBPL2	20q13.33	https://www.omim.org/entry/606731
OSGEP	14q11.2	https://www.omim.org/entry/610107
OSMR	5p13.1	https://www.omim.org/entry/601743
OSTM1	6q21	https://www.omim.org/entry/607649
OTC	Xp11.4	https://www.omim.org/entry/300461
OTOA	16p12.2	https://www.omim.org/entry/607038
OTOF	2p23.3	https://www.omim.org/entry/603681
OTOG	11p15.1	https://www.omim.org/entry/604487
OTOGL	12q21.31	https://www.omim.org/entry/614925
OTUD1	10p12.2	
OTUD5	Xp11.23	https://www.omim.org/entry/300713
OTUD6B	8q21.3	https://www.omim.org/entry/612021
OTUD7A	15q13.3	https://www.omim.org/entry/612024
OTULIN	5p15.2	https://www.omim.org/entry/615712
OTX2	14q22.3	https://www.omim.org/entry/600037
OVOL2	20p11.23	https://www.omim.org/entry/616441
OXCT1	5p13.1	https://www.omim.org/entry/601424
OXGR1	13q32.1	https://www.omim.org/entry/606922
OXR1	8q23.1	https://www.omim.org/entry/605609
P2RX2	12q24.33	https://www.omim.org/entry/600844
P2RY11	19p13.2	
P2RY12	3q25.1	https://www.omim.org/entry/600515
P3H1	1p34.2	https://www.omim.org/entry/610339

P3H2	3q28	https://www.omim.org/entry/610341
P4HA2	5q31.1	https://www.omim.org/entry/600608
P4HB	17q25.3	https://www.omim.org/entry/176790
P4HTM	3p21.31	https://www.omim.org/entry/614584
PABPC1	8q22.3	
PABPN1	14q11.2	https://www.omim.org/entry/602279
PACS1	11q13.1-q13.	https://www.omim.org/entry/607492
PACS2	14q32.33	https://www.omim.org/entry/610423
PADI3	1p36.13	https://www.omim.org/entry/606755
PADI6	1p36.13	https://www.omim.org/entry/610363
PAFAH1B1	17p13.3	https://www.omim.org/entry/601545
PAH	12q23.2	https://www.omim.org/entry/612349
PAK1	11q13.5-q14.	https://www.omim.org/entry/602590
PAK2	3q29	
PAK3	Xq23	https://www.omim.org/entry/300142
PALB2	16p12.2	https://www.omim.org/entry/610355
PAM16	16p13.3	https://www.omim.org/entry/614336
PAN2	12q13.3	
PANK2	20p13	https://www.omim.org/entry/606157
PANX1	11q21	https://www.omim.org/entry/608420
PAPPA2	1q25.2	https://www.omim.org/entry/619485
PAPSS2	10q23.2-q23.	https://www.omim.org/entry/603005
PARK7	1p36.23	https://www.omim.org/entry/602533
PARN	16p13.12	https://www.omim.org/entry/604212
PARP6	15q23	
PARS2	1p32.3	https://www.omim.org/entry/612036
PATL2	15q21.1	https://www.omim.org/entry/614661
PAX1	20p11.22	https://www.omim.org/entry/167411
PAX2	10q24.31	https://www.omim.org/entry/167409
PAX3	2q36.1	https://www.omim.org/entry/606597
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PAX5	9p13.2	
PAX6	11p13	https://www.omim.org/entry/607108
PAX7	1p36.13	https://www.omim.org/entry/167410
PAX8	2q14.1	https://www.omim.org/entry/167415
PAX9	14q13.3	https://www.omim.org/entry/167416
PBX1	1q23.3	https://www.omim.org/entry/176310
PC	11q13.2	https://www.omim.org/entry/608786
PCARE	2p23.2	https://www.omim.org/entry/613425
PCBD1	10q22.1	https://www.omim.org/entry/126090
PCBP2	12q13.13	
PCCA	13q32.3	https://www.omim.org/entry/232000
PCCB	3q22.3	https://www.omim.org/entry/232050
PCDH12	5q31.3	https://www.omim.org/entry/605622
PCDH15	10q21.1	https://www.omim.org/entry/605514
PCDH19	Xq22.1	https://www.omim.org/entry/300460
PCDHGC4	5q31.3	https://www.omim.org/entry/606305
PCGF2	17q12	https://www.omim.org/entry/600346
PCK1	20q13.31	https://www.omim.org/entry/614168
PCLO	7q21.11	

PCM1	8p22	
PCNT	21q22.3	https://www.omim.org/entry/605925
PCSK1	5q15	https://www.omim.org/entry/162150
PCSK9	1p32.3	https://www.omim.org/entry/607786
PCYT1A	3q29	https://www.omim.org/entry/123695
PCYT2	17q25.3	https://www.omim.org/entry/602679
PDCD1	2q37.3	
PDCD10	3q26.1	https://www.omim.org/entry/609118
PDCD1LG2	9p24.1	
PDE10A	6q27	https://www.omim.org/entry/610652
PDE11A	2q31.2	https://www.omim.org/entry/604961
PDE2A	11q13.4	https://www.omim.org/entry/602658
PDE3A	12p12.2	https://www.omim.org/entry/123805
PDE4D	5q11.2-q12.1	https://www.omim.org/entry/600129
PDE6A	5q32	https://www.omim.org/entry/180071
PDE6B	4p16.3	https://www.omim.org/entry/180072
PDE6C	10q23.33	https://www.omim.org/entry/600827
PDE6D	2q37.1	https://www.omim.org/entry/602676
PDE6G	17q25.3	https://www.omim.org/entry/180073
PDE6H	12p12.3	https://www.omim.org/entry/601190
PDE8B	5q13.3	https://www.omim.org/entry/603390
PDGFB	22q13.1	https://www.omim.org/entry/190040
PDGFRA	4q12	https://www.omim.org/entry/173490
PDGFRB	5q32	https://www.omim.org/entry/173410
PDGFRL	8p22	https://www.omim.org/entry/604584
PDHA1	Xp22.12	https://www.omim.org/entry/300502
PDHA2	4q22.3	https://www.omim.org/entry/179061
PDHB	3p14.3	https://www.omim.org/entry/179060
PDHX	11p13	https://www.omim.org/entry/608769
PDK3	Xp22.11	
PDP1	8q22.1	https://www.omim.org/entry/605993
PDSS1	10p12.1	https://www.omim.org/entry/607429
PDSS2	6q21	https://www.omim.org/entry/610564
PDX1	13q12.2	https://www.omim.org/entry/600733
PDXK	21q22.3	https://www.omim.org/entry/179020
PDPN	20p13	https://www.omim.org/entry/131340
PDZD7	10q24.31	https://www.omim.org/entry/612971
PDZD8	10q25.3-q26.	https://www.omim.org/entry/614235
PECAM1	17q23.3	
PEPD	19q13.11	https://www.omim.org/entry/613230
PERCC1	16p13.3	https://www.omim.org/entry/618656
PERP	6q23.3	https://www.omim.org/entry/609301
PET100	19p13.2	https://www.omim.org/entry/614770
PEX1	7q21.2	https://www.omim.org/entry/602136
PEX10	1p36.32	https://www.omim.org/entry/602859
PEX11B	1q21.1	https://www.omim.org/entry/603867
PEX12	17q12	https://www.omim.org/entry/601758
PEX13	2p15	https://www.omim.org/entry/601789
PEX14	1p36.22	https://www.omim.org/entry/601791
PEX16	11p11.2	https://www.omim.org/entry/603360

PEX19	1q23.2	https://www.omim.org/entry/600279
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PEX26	22q11.21	https://www.omim.org/entry/608666
PEX3	6q24.2	https://www.omim.org/entry/603164
PEX5	12p13.31	https://www.omim.org/entry/600414
PEX6	6p21.1	https://www.omim.org/entry/601498
PEX7	6q23.3	https://www.omim.org/entry/601757
PFKM	12q13.11	https://www.omim.org/entry/610681
PFN1	17p13.2	https://www.omim.org/entry/176610
PGAM2	7p13	https://www.omim.org/entry/612931
PGAP1	2q33.1	https://www.omim.org/entry/611655
PGAP2	11p15.4	https://www.omim.org/entry/615187
PGAP3	17q12	https://www.omim.org/entry/611801
PGK1	Xq21.1	https://www.omim.org/entry/311800
PGM1	1p31.3	https://www.omim.org/entry/171900
PGM2L1	11q13.4	https://www.omim.org/entry/611610
PGM3	6q14.1	https://www.omim.org/entry/172100
PHACTR1	6p24.1	https://www.omim.org/entry/608723
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PHF8	Xp11.22	https://www.omim.org/entry/300560
PHGDH	1p12	https://www.omim.org/entry/606879
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PHKA2	Xp22.13	https://www.omim.org/entry/300798
PHKB	16q12.1	https://www.omim.org/entry/172490
PHKG2	16p11.2	https://www.omim.org/entry/172471
PHLDB1	11q23.3	https://www.omim.org/entry/612834
PHOX2A	11q13.4	https://www.omim.org/entry/602753
PHOX2B	4p13	https://www.omim.org/entry/603851
PHYH	10p13	https://www.omim.org/entry/602026
PI4K2A	10q24.2	https://www.omim.org/entry/609763
PI4KA	22q11.21	https://www.omim.org/entry/600286
PI4KB	1q21.3	https://www.omim.org/entry/602758
PIBF1	13q21.33-q21.34	https://www.omim.org/entry/607532
PICALM	11q14.2	https://www.omim.org/entry/603025
PIDD1	11p15.5	https://www.omim.org/entry/605247
PIEZO1	16q24.3	https://www.omim.org/entry/611184
PIEZO2	18p11.22-p11.23	https://www.omim.org/entry/613629
PIGA	Xp22.2	https://www.omim.org/entry/311770
PIGB	15q21.3	https://www.omim.org/entry/604122
PIGC	1q24.3	https://www.omim.org/entry/601730
PIGF	2p21	https://www.omim.org/entry/600153
PIGG	4p16.3	https://www.omim.org/entry/616918
PIGH	14q24.1	https://www.omim.org/entry/600154
PIGK	1p31.1	https://www.omim.org/entry/605087
PIGL	17p11.2	https://www.omim.org/entry/605947
PIGM	1q23.2	https://www.omim.org/entry/610273

PIGN	18q21.33	https://www.omim.org/entry/606097
PIGO	9p13.3	https://www.omim.org/entry/614730
PIGP	21q22.13	https://www.omim.org/entry/605938
PIGQ	16p13.3	https://www.omim.org/entry/605754
PIGS	17q11.2	https://www.omim.org/entry/610271
PIGT	20q13.12	https://www.omim.org/entry/610272
PIGU	20q11.22	https://www.omim.org/entry/608528
PIGV	1p36.11	https://www.omim.org/entry/610274
PIGW	17q12	https://www.omim.org/entry/610275
PIGY	4q22.1	https://www.omim.org/entry/610662
PIK3C2A	11p15.1	https://www.omim.org/entry/603601
PIK3CA	3q26.32	https://www.omim.org/entry/171834
PIK3CD	1p36.22	https://www.omim.org/entry/602839
PIK3CG	7q22.3	https://www.omim.org/entry/601232
PIK3R1	5q13.1	https://www.omim.org/entry/171833
PIK3R2	19p13.11	https://www.omim.org/entry/603157
PIK3R5	17p13.1	https://www.omim.org/entry/611317
PIKFYVE	2q34	https://www.omim.org/entry/609414
PINK1	1p36.12	https://www.omim.org/entry/608309
PIP5K1C	19p13.3	https://www.omim.org/entry/606102
PISD	22q12.2	https://www.omim.org/entry/612770
PITPNM3	17p13.2-p13.	https://www.omim.org/entry/608921
PITRM1	10p15.2	https://www.omim.org/entry/618211
PITX1	5q31.1	https://www.omim.org/entry/602149
PITX2	4q25	https://www.omim.org/entry/601542
PITX3	10q24.32	https://www.omim.org/entry/602669
PJVK	2q31.2	https://www.omim.org/entry/610219
PKD1	16p13.3	https://www.omim.org/entry/601313
PKD1L1	7p12.3	https://www.omim.org/entry/609721
PKD2	4q22.1	https://www.omim.org/entry/173910
PKDCC	2p21	https://www.omim.org/entry/614150
PKHD1	6p12.3-p12.2	https://www.omim.org/entry/606702
PKHD1L1	8q23.1-q23.2	https://www.omim.org/entry/607843
PKLR	1q22	https://www.omim.org/entry/609712
PKP1	1q32.1	https://www.omim.org/entry/601975
PKP2	12p11.21	https://www.omim.org/entry/602861
PLA2G4A	1q31.1	https://www.omim.org/entry/600522
PLA2G5	1p36.13	
PLA2G6	22q13.1	https://www.omim.org/entry/603604
PLA2G7	6p12.3	https://www.omim.org/entry/601690
PLAA	9p21.2	https://www.omim.org/entry/603873
PLAAT3	11q12.3-q13.	https://www.omim.org/entry/613867
PLAG1	8q12.1	https://www.omim.org/entry/603026
PLAGL1	6q24.2	
PLAT	8p11.21	
PLAU	10q22.2	https://www.omim.org/entry/191840
PLCB1	20p12.3	https://www.omim.org/entry/607120
PLCB3	11q13.1	https://www.omim.org/entry/600230
PLCB4	20p12.3-p12.	https://www.omim.org/entry/600810
PLCD1	3p22.2	https://www.omim.org/entry/602142

PLCE1	10q23.33	https://www.omim.org/entry/608414
PLCG2	16q24.1	https://www.omim.org/entry/600220
PLCH1	3q25.31	https://www.omim.org/entry/612835
PLCZ1	12p12.3	https://www.omim.org/entry/608075
PLD1	3q26.31	https://www.omim.org/entry/602382
PLD3	19q13.2	
PLEC	8q24.3	https://www.omim.org/entry/601282
PLEKHA7	11p15	
PLEKHG2	19q13.2	https://www.omim.org/entry/611893
PLEKHG5	1p36.31	https://www.omim.org/entry/611101
PLEKHM1	17q21.31	https://www.omim.org/entry/611466
PLG	6q26	https://www.omim.org/entry/173350
PLIN1	15q26.1	https://www.omim.org/entry/170290
PLIN4	19p13.3	https://www.omim.org/entry/613247
PLK1	16p12.2	
PLK4	4q28.1	https://www.omim.org/entry/605031
PLN	6q22.31	https://www.omim.org/entry/172405
PLOD1	1p36.22	https://www.omim.org/entry/153454
PLOD2	3q24	https://www.omim.org/entry/601865
PLOD3	7q22.1	https://www.omim.org/entry/603066
PLP1	Xq22.2	https://www.omim.org/entry/300401
PLPBP	8p11.23	https://www.omim.org/entry/604436
PLS1	3q23	https://www.omim.org/entry/602734
PLS3	Xq23	https://www.omim.org/entry/300131
PLVAP	19p13.11	https://www.omim.org/entry/607647
PLXNA1	3q21.3	https://www.omim.org/entry/601055
PLXNA3	Xq28	
PLXNB2	22q13.33	
PLXND1	3q22.1	https://www.omim.org/entry/604282
PMFBP1	16q22.2	https://www.omim.org/entry/618085
PML	15q24.1	
PMM2	16p13.2	https://www.omim.org/entry/601785
PMP2	8q21.13	https://www.omim.org/entry/170715
PMP22	17p12	https://www.omim.org/entry/601097
PMPCA	9q34.3	https://www.omim.org/entry/613036
PMPCB	7q22.1	https://www.omim.org/entry/603131
PMS1	2q32.2	
PMS2	7p22.1	https://www.omim.org/entry/600259
PMVK	1q21.3	https://www.omim.org/entry/607622
PNKD	2q35	https://www.omim.org/entry/609023
PNKP	19q13.33	https://www.omim.org/entry/605610
PNLDC1	6q25.3	https://www.omim.org/entry/619529
PNLIP	10q25.3	
PNP	14q11.2	https://www.omim.org/entry/164050
PNPLA1	6p21.31	https://www.omim.org/entry/612121
PNPLA2	11p15.5	https://www.omim.org/entry/609059
PNPLA6	19p13.2	https://www.omim.org/entry/603197
PNPLA8	7q31.1	
PNPO	17q21.32	https://www.omim.org/entry/603287
PNPT1	2p16.1	https://www.omim.org/entry/610316

POC1A	3p21.2	https://www.omim.org/entry/614783
POC1B	12q21.33	https://www.omim.org/entry/614784
POC5	5q13.3	
PODXL	7q32.3	
POFUT1	20q11.21	https://www.omim.org/entry/607491
POGLUT1	3q13.33	https://www.omim.org/entry/615618
POGZ	1q21.3	https://www.omim.org/entry/614787
POLA1	Xp22.11-p21.	https://www.omim.org/entry/312040
POLD1	19q13.3	https://www.omim.org/entry/174761
POLD2	7p13	
POLD3	11q13.4	https://www.omim.org/entry/611415
POLE	12q24.33	https://www.omim.org/entry/174762
POLE2	14q21.3	
POLG	15q26.1	https://www.omim.org/entry/174763
POLG2	17q23.3	https://www.omim.org/entry/604983
POLH	6p21.1	https://www.omim.org/entry/603968
POLK	5q13.3	
POLQ	3q13.33	
POLR1A	2p11.2	https://www.omim.org/entry/616404
POLR1B	2q14.1	https://www.omim.org/entry/602000
POLR1C	6p21.1	https://www.omim.org/entry/610060
POLR1D	13q12.2	https://www.omim.org/entry/613715
POLR2A	17p13.1	https://www.omim.org/entry/180660
POLR3A	10q22.3	https://www.omim.org/entry/614258
POLR3B	12q23.3	https://www.omim.org/entry/614366
POLR3C	1q21.1	
POLR3F	20p11.23	
POLR3GL	1q21.1	https://www.omim.org/entry/617457
POLR3K	16p13.3	https://www.omim.org/entry/606007
POLRMT	19p13.3	https://www.omim.org/entry/601778
POMC	2p23.3	https://www.omim.org/entry/176830
POMGNT1	1p34.1	https://www.omim.org/entry/606822
POMGNT2	3p22.1	https://www.omim.org/entry/614828
POMK	8p11.21	https://www.omim.org/entry/615247
POMP	13q12.3	https://www.omim.org/entry/613386
POMT1	9q34.13	https://www.omim.org/entry/607423
POMT2	14q24.3	https://www.omim.org/entry/607439
POP1	8q22.2	https://www.omim.org/entry/602486
POPDC2	3q13.33	
POPDC3	6q21	https://www.omim.org/entry/605824
POR	7q11.23	https://www.omim.org/entry/124015
PORCN	Xp11.23	https://www.omim.org/entry/300651
POT1	7q31.33	https://www.omim.org/entry/606478
POU1F1	3p11.2	https://www.omim.org/entry/173110
POU3F2	6q16.1	
POU3F3	2q12.1	https://www.omim.org/entry/602480
POU3F4	Xq21.1	https://www.omim.org/entry/300039
POU4F1	13q31.1	https://www.omim.org/entry/601632
POU4F3	5q32	https://www.omim.org/entry/602460
PPA2	4q24	https://www.omim.org/entry/609988

PPARG	3p25.2	https://www.omim.org/entry/601487
PPCS	1p34.2	https://www.omim.org/entry/609853
PPFIA3	19q13.33	
PPFIBP1	12p11.23-p1:	https://www.omim.org/entry/603141
PPIB	15q22.31	https://www.omim.org/entry/123841
PPIL1	6p21.2	https://www.omim.org/entry/601301
PIIP5K2	5q21.1	https://www.omim.org/entry/611648
PPM1D	17q23.3	https://www.omim.org/entry/605100
PPM1K	4q22.1	https://www.omim.org/entry/611065
PPOX	1q23.3	https://www.omim.org/entry/600923
PPP1CB	2p23.2	https://www.omim.org/entry/600590
PPP1R12A	12q21.2-q21.	https://www.omim.org/entry/602021
PPP1R13L	19q13.32	https://www.omim.org/entry/607463
PPP1R15B	1q32.1	https://www.omim.org/entry/613257
PPP1R21	2p16.3	https://www.omim.org/entry/618159
PPP1R3A	7q31.1	https://www.omim.org/entry/600917
PPP1R3F	Xp11.23	
PPP2CA	5q31.1	https://www.omim.org/entry/176915
PPP2R1A	19q13.41	https://www.omim.org/entry/605983
PPP2R1B	11q23.1	https://www.omim.org/entry/603113
PPP2R2B	5q32	https://www.omim.org/entry/604325
PPP2R3C	14q13.2	https://www.omim.org/entry/615902
PPP2R5C	14q32.31	
PPP2R5D	6p21.1	https://www.omim.org/entry/601646
PPP3CA	4q24	https://www.omim.org/entry/114105
PPT1	1p34.2	https://www.omim.org/entry/600722
PQBP1	Xp11.23	https://www.omim.org/entry/300463
PRCC	1q23.1	https://www.omim.org/entry/179755
PRCD	17q25.1	https://www.omim.org/entry/610598
PRDM1	6q21	
PRDM12	9q34.12	https://www.omim.org/entry/616458
PRDM13	6q16.2	https://www.omim.org/entry/616741
PRDM15	21q22.3	
PRDM16	1p36.32	https://www.omim.org/entry/605557
PRDM5	4q27	https://www.omim.org/entry/614161
PRDM6	5q23.2	https://www.omim.org/entry/616982
PRDM9	5p14.2	
PRDX1	1p34.1	https://www.omim.org/entry/176763
PRDX3	10q26.11	https://www.omim.org/entry/604769
PREPL	2p21	https://www.omim.org/entry/609557
PRF1	10q22.1	https://www.omim.org/entry/170280
PRG4	1q31.1	https://www.omim.org/entry/604283
PRICKLE1	12q12	https://www.omim.org/entry/608500
PRICKLE2	3p14.1	
PRIM1	12q13.3	https://www.omim.org/entry/176635
PRIMPOL	4q35.1	https://www.omim.org/entry/615421
PRKACA	19p13.12	https://www.omim.org/entry/601639
PRKACB	1p31.1	https://www.omim.org/entry/176892
PRKAG2	7q36.1	https://www.omim.org/entry/602743
PRKAR1A	17q24.2	https://www.omim.org/entry/188830

PRKAR1B	7p22.3	https://www.omim.org/entry/176911
PRKCA	17q24.2	https://www.omim.org/entry/176960
PRKCD	3p21.1	https://www.omim.org/entry/176977
PRKCG	19q13.42	https://www.omim.org/entry/176980
PRKCSH	19p13.2	https://www.omim.org/entry/177060
PRKD1	14q12	https://www.omim.org/entry/605435
PRKDC	8q11.21	https://www.omim.org/entry/600899
PRKG1	10q11.23-q2:	https://www.omim.org/entry/176894
PRKG2	4q21.21	https://www.omim.org/entry/601591
PRKN	6q26	https://www.omim.org/entry/602544
PRKRA	2q31.2	https://www.omim.org/entry/603424
PRLR	5p13.2	https://www.omim.org/entry/176761
PRMT7	16q22.1	https://www.omim.org/entry/610087
PRMT9	4q31.23	
PRNP	20p13	https://www.omim.org/entry/176640
PROC	2q14.3	https://www.omim.org/entry/612283
PRODH	22q11.21	https://www.omim.org/entry/606810
PRODH2	19q13.12	
PROK1	1p13.3	
PROK2	3p13	https://www.omim.org/entry/607002
PROKR1	2p13.3	
PROKR2	20p12.3	https://www.omim.org/entry/607123
PROM1	4p15.32	https://www.omim.org/entry/604365
PROP1	5q35.3	https://www.omim.org/entry/601538
PRORP	14q13.2	https://www.omim.org/entry/609947
PROS1	3q11.1	https://www.omim.org/entry/176880
PROSER1	13q13.3	
PRPF19	11q12.2	
PRPF3	1q21.2	https://www.omim.org/entry/607301
PRPF31	19q13.42	https://www.omim.org/entry/606419
PRPF4	9q32	https://www.omim.org/entry/607795
PRPF6	20q13.33	https://www.omim.org/entry/613979
PRPF8	17p13.3	https://www.omim.org/entry/607300
PRPH2	6p21.1	https://www.omim.org/entry/179605
PRPS1	Xq22.3	https://www.omim.org/entry/311850
PRR12	19q13.33	https://www.omim.org/entry/616633
PRRT2	16p11.2	https://www.omim.org/entry/614386
PRRX1	1q24.2	https://www.omim.org/entry/167420
PRSS1	7q34	https://www.omim.org/entry/276000
PRSS12	4q26	https://www.omim.org/entry/606709
PRSS56	2q37.1	https://www.omim.org/entry/613858
PRUNE1	1q21.3	https://www.omim.org/entry/617413
PRX	19q13.2	https://www.omim.org/entry/605725
PSAP	10q22.1	https://www.omim.org/entry/176801
PSAT1	9q21.2	https://www.omim.org/entry/610936
PSEN1	14q24.2	https://www.omim.org/entry/104311
PSEN2	1q42.13	https://www.omim.org/entry/600759
PSENEN	19q13.12	https://www.omim.org/entry/607632
PSKH1	16q22.1	https://www.omim.org/entry/177015
PSMB10	16q22.1	https://www.omim.org/entry/176847

PSMB4	1q21.3	
PSMB8	6p21.32	https://www.omim.org/entry/177046
PSMB9	6p21.32	https://www.omim.org/entry/177045
PSMC3	11p11.2	
PSMC3IP	17q21.2	https://www.omim.org/entry/608665
PSMC5	17q23.3	
PSMD11	17q11.2	
PSMD12	17q24.2	https://www.omim.org/entry/604450
PSMF1	20p13	
PSMG2	18p11.21	
PSPH	7p11.2	https://www.omim.org/entry/172480
PSTPIP1	15q24.3	https://www.omim.org/entry/606347
PTCD3	2p11.2	https://www.omim.org/entry/614918
PTCH1	9q22.32	https://www.omim.org/entry/601309
PTCH2	1p34.1	https://www.omim.org/entry/603673
PTCHD1	Xp22.11	
PTCRA	6p21.1	https://www.omim.org/entry/606817
PTDSS1	8q22.1	https://www.omim.org/entry/612792
PTEN	10q23.31	https://www.omim.org/entry/601728
PTF1A	10p12.2	https://www.omim.org/entry/607194
PTGIS	20q13.13	https://www.omim.org/entry/601699
PTGS1	9q33.2	
PTGS2	1q31.1	
PTH	11p15.3	https://www.omim.org/entry/168450
PTH1R	3p21.31	https://www.omim.org/entry/168468
PTHLH	12p11.22	https://www.omim.org/entry/168470
PTPA	9q34.11	https://www.omim.org/entry/600756
PTPN11	12q24.13	https://www.omim.org/entry/176876
PTPN12	7q11.23	https://www.omim.org/entry/600079
PTPN14	1q32.3-q41	https://www.omim.org/entry/603155
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PTPN22	1p13.2	
PTPN23	3p21.31	https://www.omim.org/entry/606584
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PTPN4	2q14.2	
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PTPRJ	11p11.2	https://www.omim.org/entry/600925
PTPRO	12p12.3	https://www.omim.org/entry/600579
PTPRQ	12q21.31	https://www.omim.org/entry/603317
PTRH2	17q23.1	https://www.omim.org/entry/608625
PTRHD1	2p23.3	https://www.omim.org/entry/617342
PTS	11q23.1	https://www.omim.org/entry/612719
PUF60	8q24.3	https://www.omim.org/entry/604819
PUM1	1p35.2	https://www.omim.org/entry/607204
PURA	5q31.3	https://www.omim.org/entry/600473
PUS1	12q24.33	https://www.omim.org/entry/608109
PUS3	11q24.2	https://www.omim.org/entry/616283
PUS7	7q22.3	https://www.omim.org/entry/616261
PXDN	2p25.3	https://www.omim.org/entry/605158
PYCR1	17q25.3	https://www.omim.org/entry/179035

PYCR2	1q42.12	https://www.omim.org/entry/616406
PYGL	14q22.1	https://www.omim.org/entry/613741
PYGM	11q13.1	https://www.omim.org/entry/608455
PYROXD1	12p12.1	https://www.omim.org/entry/617220
QARS1	3p21.31	https://www.omim.org/entry/603727
QDPR	4p15.32	https://www.omim.org/entry/612676
QRICH1	3p21.31	https://www.omim.org/entry/617387
QRICH2	17q25.1	https://www.omim.org/entry/618304
QRSL1	6q21	https://www.omim.org/entry/617209
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RAB11B	19p13.2	https://www.omim.org/entry/604198
RAB12	18p11.22	
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RAB18	10p12.1	https://www.omim.org/entry/602207
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RAB23	6p12.1-p11.2	https://www.omim.org/entry/606144
RAB27A	15q21.3	https://www.omim.org/entry/603868
RAB28	4p15.33	https://www.omim.org/entry/612994
RAB33B	4q31.1	https://www.omim.org/entry/605950
RAB34	17q11.2	https://www.omim.org/entry/610917
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RAB3GAP2	1q41	https://www.omim.org/entry/609275
RAB5C	17q21.2	
RAB7A	3q21.3	https://www.omim.org/entry/602298
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RABL3	3q13.33	
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RAC3	17q25.3	https://www.omim.org/entry/602050
RACGAP1	12q13.12	https://www.omim.org/entry/604980
RAD21	8q24.11	https://www.omim.org/entry/606462
RAD50	5q31.1	https://www.omim.org/entry/604040
RAD51	15q15.1	https://www.omim.org/entry/179617
RAD51B	14q24.1	
RAD51C	17q22	https://www.omim.org/entry/602774
RAD51D	17q12	
RAD54B	8q22.1	https://www.omim.org/entry/604289
RAD54L	1p34.1	https://www.omim.org/entry/603615
RAD9B	12q24.11	
RAF1	3p25.2	https://www.omim.org/entry/164760
RAG1	11p12	https://www.omim.org/entry/179615
RAG2	11p12	https://www.omim.org/entry/179616
RAI1	17p11.2	https://www.omim.org/entry/607642
RALA	7p14.1	https://www.omim.org/entry/179550
RALGAPA1	14q13.2	https://www.omim.org/entry/608884
RALGAPB	20q11.23	
RAMP2	17q21.2	
RANBP2	2q13	
RAP1B	12q15	https://www.omim.org/entry/179530

RAP1GDS1	4q23	https://www.omim.org/entry/179502
RAPSN	11p11.2	https://www.omim.org/entry/601592
RARA	17q21.2	
RARB	3p24.2	https://www.omim.org/entry/180220
RARS1	5q34	https://www.omim.org/entry/107820
RARS2	6q15	https://www.omim.org/entry/611524
RASA1	5q14.3	https://www.omim.org/entry/139150
RASGRP1	15q14	https://www.omim.org/entry/603962
RASGRP2	11q13.1	
RAX	18q21.32	https://www.omim.org/entry/601881
RAX2	19p13.3	https://www.omim.org/entry/610362
RB1	13q14.2	https://www.omim.org/entry/614041
RB1CC1	8q11.23	https://www.omim.org/entry/606837
RBBP5	1q32.1	
RBBP6	16p12.1	
RBBP8	18q11.2	https://www.omim.org/entry/604124
RBCK1	20p13	https://www.omim.org/entry/610924
RBFOX1	16p13.3	
RBL2	16q12.2	https://www.omim.org/entry/180203
RBM10	Xp11.3	https://www.omim.org/entry/300080
RBM12	20q11.22	
RBM20	10q25.2	https://www.omim.org/entry/613171
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RBM8A	1q21.1	https://www.omim.org/entry/605313
RBP3	10q11.22	
RBP4	10q23.33	https://www.omim.org/entry/180250
RBPJ	4p15.2	https://www.omim.org/entry/147183
RBSN	3p25.1	https://www.omim.org/entry/609511
RCBTB1	13q14.2	https://www.omim.org/entry/607867
RCC1	1p35.3	
RD3	1q32.3	https://www.omim.org/entry/180040
RDH11	14q24.1	
RDH12	14q24.1	https://www.omim.org/entry/608830
RDH5	12q13.2	https://www.omim.org/entry/601617
RDX	11q22.3	https://www.omim.org/entry/179410
REC114	15q24.1	https://www.omim.org/entry/618421
RECQL	12p12.1	https://www.omim.org/entry/600537
RECQL4	8q24.3	https://www.omim.org/entry/603780
REEP1	2p11.2	https://www.omim.org/entry/609139
REEP2	5q31.2	https://www.omim.org/entry/609347
REEP6	19p13.3	https://www.omim.org/entry/609346
REL	2p16.1	https://www.omim.org/entry/164910
RELA	11q13.1	https://www.omim.org/entry/164014
RELB	19q13.32	
RELN	7q22.1	https://www.omim.org/entry/600514
RELT	11q13.4	https://www.omim.org/entry/611211
REN	1q32.1	https://www.omim.org/entry/179820
RERE	1p36.23	https://www.omim.org/entry/605226
REST	4q12	https://www.omim.org/entry/600571
RET	10q11.21	https://www.omim.org/entry/164761

RETREG1	5p15.1	https://www.omim.org/entry/613114
REV3L	6q21	
RFC1	4p14	https://www.omim.org/entry/102579
RFC4	3q27.3	
RFT1	3p21.1	https://www.omim.org/entry/611908
RFWD3	16q23.1	
RFX3	9p24.2	
RFX4	12q23.3	
RFX5	1q21.3	https://www.omim.org/entry/601863
RFX6	6q22.1	https://www.omim.org/entry/612659
RFX7	15q21.3	https://www.omim.org/entry/612660
RFXANK	19p13.11	https://www.omim.org/entry/603200
RFXAP	13q13.3	https://www.omim.org/entry/601861
RGR	10q23.1	https://www.omim.org/entry/600342
RGS2	1q31.2	
RGS6	14q24.2	
RGS9	17q24.1	https://www.omim.org/entry/604067
RGS9BP	19q13.11	https://www.omim.org/entry/607814
RHAG	6p12.3	https://www.omim.org/entry/180297
RHBDF2	17q25.1	https://www.omim.org/entry/614404
RHCE	1p36.11	https://www.omim.org/entry/111700
RHD	1p36.11	
RHEB	7q36.1	
RHO	3q22.1	https://www.omim.org/entry/180380
RHOA	3p21.31	https://www.omim.org/entry/165390
RHOBTB2	8p21.3	https://www.omim.org/entry/607352
RHOH	4p14	
RHOT1	17q11.2	
RIC1	9p24.1	https://www.omim.org/entry/610354
RIGI	9p21.1	https://www.omim.org/entry/609631
RILPL1	12q24.31	https://www.omim.org/entry/614092
RIMS1	6q13	
RIMS2	8q22.3	https://www.omim.org/entry/606630
RIN2	20p11.23	https://www.omim.org/entry/610222
RINT1	7q22.3	https://www.omim.org/entry/610089
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RIPK4	21q22.3	https://www.omim.org/entry/605706
RIPOR2	6p22.3	https://www.omim.org/entry/611410
RIPPLY2	6q14.2	
RIT1	1q22	https://www.omim.org/entry/609591
RLBP1	15q26.1	https://www.omim.org/entry/180090
RLIM	Xq13.2	https://www.omim.org/entry/300379
RMND1	6q25.1	https://www.omim.org/entry/614917
RMRP	9p13.3	https://www.omim.org/entry/157660
RNASEH1	2p25.3	https://www.omim.org/entry/604123
RNASEH2A	19p13.13	https://www.omim.org/entry/606034
RNASEH2B	13q14.3	https://www.omim.org/entry/610326
RNASEH2C	11q13.1	https://www.omim.org/entry/610330
RNASEL	1q25.3	https://www.omim.org/entry/180435
RNASET2	6q27	https://www.omim.org/entry/612944

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RNF13	3q25.1	https://www.omim.org/entry/609247
RNF139	8q24.13	https://www.omim.org/entry/603046
RNF168	3q29	https://www.omim.org/entry/612688
RNF170	8p11.21	https://www.omim.org/entry/614649
RNF2	1q25.3	https://www.omim.org/entry/608985
RNF212	4p16.3	https://www.omim.org/entry/612041
RNF213	17q25.3	
RNF216	7p22.1	https://www.omim.org/entry/609948
RNF220	1p34.1	https://www.omim.org/entry/616136
RNF31	14q12	https://www.omim.org/entry/612487
RNF43	17q22	https://www.omim.org/entry/612482
RNF6	13q12.13	https://www.omim.org/entry/604242
RNFT2	12q24.22	
RNH1	11p15.5	
RNPC3	1p21.1	https://www.omim.org/entry/618016
RNU12	22q13.2	https://www.omim.org/entry/620204
RNU4-2	12q24.31	https://www.omim.org/entry/620823
RNU4ATAC	2q14.2	https://www.omim.org/entry/601428
RNU5B-1	15q22	
RNU7-1	12p13.31	https://www.omim.org/entry/617876
ROBO1	3p12.3	https://www.omim.org/entry/602430
ROBO2	3p12.3	https://www.omim.org/entry/602431
ROBO3	11q24.2	https://www.omim.org/entry/608630
ROBO4	11q24.2	https://www.omim.org/entry/607528
ROGDI	16p13.3	https://www.omim.org/entry/614574
ROM1	11q12.3	https://www.omim.org/entry/180721
ROR2	9q22.31	https://www.omim.org/entry/602337
RORA	15q22.2	https://www.omim.org/entry/600825
RORB	9q21.13	
RORC	1q21.3	https://www.omim.org/entry/602943
ROS1	6q22.1	
RP1	8q11.23-q12.	https://www.omim.org/entry/603937
RP1L1	8p23.1	https://www.omim.org/entry/608581
RP2	Xp11.3	https://www.omim.org/entry/300757
RP9	7p14.3	
RPA1	17p13.3	https://www.omim.org/entry/179835
RPE65	1p31.3	https://www.omim.org/entry/180069
RPGR	Xp11.4	https://www.omim.org/entry/312610
RPGRIP1	14q11.2	https://www.omim.org/entry/605446
RPGRIP1L	16q12.2	https://www.omim.org/entry/610937
RPH3A	12q24.13	
RPIA	2p11.2	https://www.omim.org/entry/180430
RPL10	Xq28	https://www.omim.org/entry/312173
RPL11	1p36.11	https://www.omim.org/entry/604175
RPL13	16q24.3	https://www.omim.org/entry/113703
RPL15	3p24.2	https://www.omim.org/entry/604174
RPL21	13q12.2	https://www.omim.org/entry/603636

RPL23	17q12	
RPL26	17p13.1	
RPL27	17q21.31	
RPL31	2q11.2	
RPL35A	3q29	https://www.omim.org/entry/180468
RPL36	19p13.3	
RPL3L	16p13.3	https://www.omim.org/entry/617416
RPL5	1p22.1	https://www.omim.org/entry/603634
RPL9	4p14	
RPS10	6p21.31	https://www.omim.org/entry/603632
RPS14	5q33.1	https://www.omim.org/entry/130620
RPS15	19p13.3	
RPS17	15q25.2	https://www.omim.org/entry/180472
RPS19	19q13.2	https://www.omim.org/entry/603474
RPS20	8q12.1	
RPS23	5q14.2	https://www.omim.org/entry/603683
RPS24	10q22.3	https://www.omim.org/entry/602412
RPS26	12q13.2	https://www.omim.org/entry/603701
RPS27	1q21.3	
RPS27A	2p16.1	
RPS28	19p13.2	https://www.omim.org/entry/603685
RPS29	14q21.3	https://www.omim.org/entry/603633
RPS6KA3	Xp22.12	https://www.omim.org/entry/300075
RPS7	2p25.3	https://www.omim.org/entry/603658
RPSA	3p22.1	https://www.omim.org/entry/150370
RRAGC	1p34.3	https://www.omim.org/entry/608267
RRAGD	6q15	https://www.omim.org/entry/608268
RRAS	19q13.33	
RRAS2	11p15.2	https://www.omim.org/entry/600098
RRM1	11p15.4	https://www.omim.org/entry/180410
RRM2B	8q22.3	https://www.omim.org/entry/604712
RS1	Xp22.13	https://www.omim.org/entry/300839
RSPH1	21q22.3	https://www.omim.org/entry/609314
RSPH3	6q25.3	https://www.omim.org/entry/615876
RSPH4A	6q22.1	https://www.omim.org/entry/612647
RSPH9	6p21.1	https://www.omim.org/entry/612648
RSPO1	1p34.3	https://www.omim.org/entry/609595
RSPO2	8q23.1	https://www.omim.org/entry/610575
RSPO4	20p13	https://www.omim.org/entry/610573
RSPRY1	16q13	https://www.omim.org/entry/616585
RSRC1	3q25.32	https://www.omim.org/entry/613352
RTKL1	20q13.33	https://www.omim.org/entry/608833
RTN2	19q13.32	https://www.omim.org/entry/603183
RTN4IP1	6q21	https://www.omim.org/entry/610502
RTTN	18q22.2	https://www.omim.org/entry/610436
RUBCN	3q29	https://www.omim.org/entry/613516
RUNX1	21q22.12	https://www.omim.org/entry/151385
RUNX2	6p21.1	https://www.omim.org/entry/600211
RUSC2	9p13.3	https://www.omim.org/entry/611053
RXYLT1	12q14.2	https://www.omim.org/entry/605862

RYR1	19q13.2	https://www.omim.org/entry/180901
RYR2	1q43	https://www.omim.org/entry/180902
RYR3	15q13.3-q14	https://www.omim.org/entry/180903
S1PR2	19p13.2	https://www.omim.org/entry/605111
SACS	13q12.12	https://www.omim.org/entry/604490
SAG	2q37.1	https://www.omim.org/entry/181031
SALL1	16q12.1	https://www.omim.org/entry/602218
SALL4	20q13.2	https://www.omim.org/entry/607343
SAMD12	8q24.11-q24.	https://www.omim.org/entry/618073
SAMD7	3q26.2	https://www.omim.org/entry/620493
SAMD9	7q21.2	https://www.omim.org/entry/610456
SAMD9L	7q21.2	https://www.omim.org/entry/611170
SAMHD1	20q11.23	https://www.omim.org/entry/606754
SAR1B	5q31.1	https://www.omim.org/entry/607690
SARDH	9q34.2	
SARS1	1p13.3	https://www.omim.org/entry/607529
SARS2	19q13.2	https://www.omim.org/entry/612804
SART3	12q23.3	
SASH1	6q24.3-q25.1	https://www.omim.org/entry/607955
SASH3	Xq26.1	https://www.omim.org/entry/300441
SASS6	1p21.2	https://www.omim.org/entry/609321
SAT1	Xp22.11	
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SATB2	2q33.1	https://www.omim.org/entry/608148
SBDS	7q11.21	https://www.omim.org/entry/607444
SBF1	22q13.33	https://www.omim.org/entry/603560
SBF2	11p15.4	https://www.omim.org/entry/607697
SC5D	11q23.3-q24.	https://www.omim.org/entry/602286
SCAF4	21q22.11	https://www.omim.org/entry/616023
SCAMP5	15q24.2	
SCAPER	15q24.3	https://www.omim.org/entry/611611
SCARB1	12q24.31	
SCARB2	4q21.1	https://www.omim.org/entry/602257
SCARF2	22q11.21	https://www.omim.org/entry/613619
SCLT1	4q28.2	
SCN10A	3p22.2	https://www.omim.org/entry/604427
SCN11A	3p22.2	https://www.omim.org/entry/604385
SCN1A	2q24.3	https://www.omim.org/entry/182389
SCN1B	19q13.11	https://www.omim.org/entry/600235
SCN2A	2q24.3	https://www.omim.org/entry/182390
SCN2B	11q23.3	https://www.omim.org/entry/601327
SCN3A	2q24.3	https://www.omim.org/entry/182391
SCN3B	11q24.1	https://www.omim.org/entry/608214
SCN4A	17q23.3	https://www.omim.org/entry/603967
SCN4B	11q23.3	https://www.omim.org/entry/608256
SCN5A	3p22.2	https://www.omim.org/entry/600163
SCN8A	12q13.13	https://www.omim.org/entry/600702
SCN9A	2q24.3	https://www.omim.org/entry/603415
SCNM1	1q21.3	https://www.omim.org/entry/608095
SCNN1A	12p13.31	https://www.omim.org/entry/600228

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SCNN1G	16p12.2	https://www.omim.org/entry/600761
SCO1	17p13.1	https://www.omim.org/entry/603644
SCO2	22q13.33	https://www.omim.org/entry/604272
SCP2	1p32.3	
SCRIB	8q24.3	
SCUBE3	6p21.3	https://www.omim.org/entry/614708
SCYL1	11q13.1	https://www.omim.org/entry/607982
SCYL2	12q23.1	https://www.omim.org/entry/616365
SDCCAG8	1q43-q44	https://www.omim.org/entry/613524
SDHA	5p15.33	https://www.omim.org/entry/600857
SDHAF1	19q13.12	https://www.omim.org/entry/612848
SDHAF2	11q12.2	https://www.omim.org/entry/613019
SDHB	1p36.13	https://www.omim.org/entry/185470
SDHC	1q23.3	https://www.omim.org/entry/602413
SDHD	11q23.1	https://www.omim.org/entry/602690
SDR9C7	12q13.3	https://www.omim.org/entry/609769
SEC23A	14q21.1	https://www.omim.org/entry/610511
SEC23B	20p11.23	https://www.omim.org/entry/610512
SEC24B	4q25	
SEC24D	4q26	https://www.omim.org/entry/607186
SEC61A1	3q21.3	https://www.omim.org/entry/609213
SEC63	6q21	https://www.omim.org/entry/608648
SECISBP2	9q22.2	https://www.omim.org/entry/607693
SEL1L	14q31	
SELENBP1	1q21.3	https://www.omim.org/entry/604188
SELENOI	2p23.3	https://www.omim.org/entry/607915
SELENON	1p36.11	https://www.omim.org/entry/606210
SEM1	7q21.3	
SEMA3A	7q21.11	
SEMA3E	7q21.11	
SEMA3F	3p21.31	
SEMA4A	1q22	https://www.omim.org/entry/607292
SEMA6B	19p13.3	https://www.omim.org/entry/608873
SENP7	3q12.3	
SEPHS1	10p13	
SEPSECS	4p15.2	https://www.omim.org/entry/613009
SEPTIN12	16p13.3	https://www.omim.org/entry/611562
SEPTIN9	17q25.3	https://www.omim.org/entry/604061
SERAC1	6q25.3	https://www.omim.org/entry/614725
SERPINA1	14q32.13	https://www.omim.org/entry/107400
SERPINA3	14q32.13	https://www.omim.org/entry/107280
SERPINA6	14q32.13	https://www.omim.org/entry/122500
SERPINA7	Xq22.3	
SERPINB6	6p25.2	
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SERPINB8	18q22.1	https://www.omim.org/entry/601697
SERPINC1	1q25.1	https://www.omim.org/entry/107300
SERPIND1	22q11.21	https://www.omim.org/entry/142360
SERPINE1	7q22.1	https://www.omim.org/entry/173360

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SERPINF2	17p13.3	https://www.omim.org/entry/613168
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SERPINH1	11q13.5	https://www.omim.org/entry/600943
SERPINI1	3q26.1	https://www.omim.org/entry/602445
SET	9q34.11	https://www.omim.org/entry/600960
SETBP1	18q12.3	https://www.omim.org/entry/611060
SETD1A	16p11.2	https://www.omim.org/entry/611052
SETD1B	12q24.31	https://www.omim.org/entry/611055
SETD2	3p21.31	https://www.omim.org/entry/612778
SETD5	3p25.3	https://www.omim.org/entry/615743
SETX	9q34.13	https://www.omim.org/entry/608465
SF3B1	2q33.1	https://www.omim.org/entry/605590
SF3B2	11q13.1	https://www.omim.org/entry/605591
SF3B4	1q21.2	https://www.omim.org/entry/605593
SFRP4	7p14.1	https://www.omim.org/entry/606570
SFTPA1	10q22.3	https://www.omim.org/entry/178630
SFTPA2	10q22.3	https://www.omim.org/entry/178642
SFTPB	2p11.2	https://www.omim.org/entry/178640
SFTPC	8p21.3	https://www.omim.org/entry/178620
SFXN4	10q26.11	https://www.omim.org/entry/615564
SGCA	17q21.33	https://www.omim.org/entry/600119
SGCB	4q12	https://www.omim.org/entry/600900
SGCD	5q33.2-q33.3	https://www.omim.org/entry/601411
SGCE	7q21.3	https://www.omim.org/entry/604149
SGCG	13q12.12	https://www.omim.org/entry/608896
SGMS2	4q25	https://www.omim.org/entry/611574
SGO1	3p24.3	https://www.omim.org/entry/609168
SGPL1	10q22.1	https://www.omim.org/entry/603729
SGSH	17q25.3	https://www.omim.org/entry/605270
SGSM3	22q13.1	
SH2B1	16p11.2	
SH2B3	12q24.12	https://www.omim.org/entry/605093
SH2D1A	Xq25	https://www.omim.org/entry/300490
SH3BP2	4p16.3	https://www.omim.org/entry/602104
SH3KBP1	Xp22.12	
SH3PXD2B	5q35.1	https://www.omim.org/entry/613293
SH3TC2	5q32	https://www.omim.org/entry/608206
SHANK1	19q13.33	
SHANK2	11q13.3-q13.4	
SHANK3	22q13.33	https://www.omim.org/entry/606230
SHARPIN	8q24.3	https://www.omim.org/entry/611885
SHH	7q36.3	https://www.omim.org/entry/600725
SHMT2	12q13.3	https://www.omim.org/entry/138450
SHOC1	9q31.3	https://www.omim.org/entry/618038
SHOC2	10q25.2	https://www.omim.org/entry/602775
SHOX	Xp22.33 and	https://www.omim.org/entry/312865
SHOX2	3q25.32	
SHQ1	3p13	https://www.omim.org/entry/613663
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SI	3q26.1	https://www.omim.org/entry/609845
SIAE	11q24.2	
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SIGMAR1	9p13.3	
SIK1	21q22.3	https://www.omim.org/entry/605705
SIK3	11q23.3	
SIL1	5q31.2	https://www.omim.org/entry/608005
SIM1	6q16.3	
SIN3A	15q24.2	https://www.omim.org/entry/607776
SIN3B	19p13.11	
SIRT3	11p15.5	
SIX1	14q23.1	https://www.omim.org/entry/601205
SIX2	2p21	
SIX3	2p21	https://www.omim.org/entry/603714
SIX5	19q13.32	https://www.omim.org/entry/600963
SIX6	14q23.1	https://www.omim.org/entry/606326
SKI	1p36.33-p36.	https://www.omim.org/entry/164780
SKIC2	6p21.33	https://www.omim.org/entry/600478
SKIC3	5q15	https://www.omim.org/entry/614589
SLC10A1	14q24.1	https://www.omim.org/entry/182396
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SLC44A1	9q31.1-q31.2	https://www.omim.org/entry/606105
SLC45A1	1p36.23	https://www.omim.org/entry/605763
SLC45A2	5p13.2	https://www.omim.org/entry/606202
SLC46A1	17q11.2	https://www.omim.org/entry/611672
SLC4A1	17q21.31	https://www.omim.org/entry/109270
SLC4A10	2q24.2	https://www.omim.org/entry/605556
SLC4A11	20p13	https://www.omim.org/entry/610206
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SLC4A3	2q35	https://www.omim.org/entry/106195
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SLC52A1	17p13.2	https://www.omim.org/entry/607883
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SLC52A3	20p13	https://www.omim.org/entry/613350
SLC5A1	22q12.3	https://www.omim.org/entry/182380
SLC5A2	16p11.2	https://www.omim.org/entry/182381
SLC5A5	19p13.11	https://www.omim.org/entry/601843
SLC5A6	2p23.3	https://www.omim.org/entry/604024
SLC5A7	2q12.3	https://www.omim.org/entry/608761
SLC6A1	3p25.3	https://www.omim.org/entry/137165
SLC6A17	1p13.3	https://www.omim.org/entry/610299
SLC6A19	5p15.33	https://www.omim.org/entry/608893
SLC6A3	5p15.33	https://www.omim.org/entry/126455
SLC6A5	11p15.1	https://www.omim.org/entry/604159
SLC6A6	3p25.1	https://www.omim.org/entry/186854
SLC6A8	Xq28	https://www.omim.org/entry/300036
SLC6A9	1p34.1	https://www.omim.org/entry/601019
SLC7A14	3q26.2	https://www.omim.org/entry/615720
SLC7A6OS	16q22.1	https://www.omim.org/entry/619192
SLC7A7	14q11.2	https://www.omim.org/entry/603593
SLC7A8	14q11.2	
SLC7A9	19q13.11	https://www.omim.org/entry/604144
SLC9A1	1p36.11	https://www.omim.org/entry/107310
SLC9A3	5p15.33	https://www.omim.org/entry/182307
SLC9A6	Xq26.3	https://www.omim.org/entry/300231
SLC9A7	Xp11.3	https://www.omim.org/entry/300368
SLCO1B1	12p12.1	https://www.omim.org/entry/604843
SLCO1B3	12p12.2	https://www.omim.org/entry/605495

SLCO2A1	3q22.1-q22.2	https://www.omim.org/entry/601460
SLF2	10q24.31	https://www.omim.org/entry/610348
SLFN14	17q12	https://www.omim.org/entry/614958
SLIT2	4p15.31	
SLITRK1	13q31.1	https://www.omim.org/entry/609678
SLITRK2	Xq27.3	https://www.omim.org/entry/300561
SLITRK6	13q31.1	https://www.omim.org/entry/609681
SLURP1	8q24.3	https://www.omim.org/entry/606119
SLX4	16p13.3	https://www.omim.org/entry/613278
SMAD1	4q31.21	
SMAD2	18q21.1	https://www.omim.org/entry/601366
SMAD3	15q22.33	https://www.omim.org/entry/603109
SMAD4	18q21.2	https://www.omim.org/entry/600993
SMAD6	15q22.31	https://www.omim.org/entry/602931
SMAD9	13q13.3	https://www.omim.org/entry/603295
SMARCA1	Xq25-q26.1	
SMARCA2	9p24.3	https://www.omim.org/entry/600014
SMARCA4	19p13.2	https://www.omim.org/entry/603254
SMARCA5	4q31.21	
SMARCA14	14q22.3	https://www.omim.org/entry/612761
SMARCA11	2q35	https://www.omim.org/entry/606622
SMARCB1	22q11.23	https://www.omim.org/entry/601607
SMARCC1	3p21.31	
SMARCC2	12q13.2	https://www.omim.org/entry/601734
SMARCD1	12q13.12	https://www.omim.org/entry/601735
SMARCD2	17q23.3	https://www.omim.org/entry/601736
SMARCE1	17q21.2	https://www.omim.org/entry/603111
SMC1A	Xp11.22	https://www.omim.org/entry/300040
SMC3	10q25.2	https://www.omim.org/entry/606062
SMC5	9q21.12	https://www.omim.org/entry/609386
SMCHD1	18p11.32	https://www.omim.org/entry/614982
SMG8	17q22	https://www.omim.org/entry/613175
SMG9	19q13.31	https://www.omim.org/entry/613176
SMN1	5q13.2	https://www.omim.org/entry/600354
SMN2	5q13.2	
SMO	7q32.1	https://www.omim.org/entry/601500
SMOC1	14q24.1	https://www.omim.org/entry/608488
SMOC2	6q27	https://www.omim.org/entry/607223
SMPD1	11p15.4	https://www.omim.org/entry/607608
SMPD4	2q21.1	https://www.omim.org/entry/610457
SMPX	Xp22.12	https://www.omim.org/entry/300226
SMS	Xp22.11	https://www.omim.org/entry/300105
SNAP25	20p12.2	
SNAP29	22q11.21	https://www.omim.org/entry/604202
SNAPC4	9q34.3	https://www.omim.org/entry/602777
SNCA	4q22.1	https://www.omim.org/entry/163890
SNCAIP	5q23.2	
SNCB	5q35.2	https://www.omim.org/entry/602569
SNF8	17q21.32	https://www.omim.org/entry/610904
SNIP1	1p34.3	https://www.omim.org/entry/608241

SNORA31	13q14.13	
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SNRPE	1q32.1	https://www.omim.org/entry/128260
SNRPN	15q11.2	
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SNUPN	15q24.2	https://www.omim.org/entry/607902
SNX10	7p15.2	https://www.omim.org/entry/614780
SNX14	6q14.3	https://www.omim.org/entry/616105
SNX27	1q21.3	
SOCS1	16p13.13	https://www.omim.org/entry/603597
SOD1	21q22.11	https://www.omim.org/entry/147450
SOHLH1	9q34.3	https://www.omim.org/entry/610224
SON	21q22.11	https://www.omim.org/entry/182465
SORD	15q21.1	https://www.omim.org/entry/182500
SORL1	11q24.1	
SOS1	2p22.1	https://www.omim.org/entry/182530
SOS2	14q21.3	https://www.omim.org/entry/601247
SOST	17q21.31	https://www.omim.org/entry/605740
SOX10	22q13.1	https://www.omim.org/entry/602229
SOX11	2p25.2	https://www.omim.org/entry/600898
SOX17	8q11.23	https://www.omim.org/entry/610928
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SOX2	3q26.33	https://www.omim.org/entry/184429
SOX3	Xq27.1	https://www.omim.org/entry/313430
SOX4	6p22.3	https://www.omim.org/entry/184430
SOX5	12p12.1	https://www.omim.org/entry/604975
SOX6	11p15.2	https://www.omim.org/entry/607257
SOX9	17q24.3	https://www.omim.org/entry/608160
SP110	2q37.1	https://www.omim.org/entry/604457
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SP7	12q13.13	https://www.omim.org/entry/606633
SP9	2q31.1	
SPAG1	8q22.2	https://www.omim.org/entry/603395
SPARC	5q33.1	https://www.omim.org/entry/182120
SPART	13q13.3	https://www.omim.org/entry/607111
SPAST	2p22.3	https://www.omim.org/entry/604277
SPATA22	17p13.2	https://www.omim.org/entry/617673
SPATA7	14q31.3	https://www.omim.org/entry/609868
SPECC1L	22q11.23	https://www.omim.org/entry/614140
SPEF2	5p13.2	https://www.omim.org/entry/610172
SPEG	2q35	https://www.omim.org/entry/615950
SPEN	1p36.21-p36.	https://www.omim.org/entry/613484
SPG11	15q21.1	https://www.omim.org/entry/610844
SPG21	15q22.31	https://www.omim.org/entry/608181
SPG7	16q24.3	https://www.omim.org/entry/602783
SPI1	11p11.2	https://www.omim.org/entry/165170
SPIDR	8q11.21	https://www.omim.org/entry/615384
SPINK1	5q32	https://www.omim.org/entry/167790

SPINK5	5q32	https://www.omim.org/entry/605010
SPINT2	19q13.2	https://www.omim.org/entry/605124
SPOP	17q21.33	https://www.omim.org/entry/602650
SPOUT1	9q34.11	
SPPL2A	15q21.2	https://www.omim.org/entry/608238
SPR	2p13.2	https://www.omim.org/entry/182125
SPRED1	15q14	https://www.omim.org/entry/609291
SPRED2	2p14	https://www.omim.org/entry/609292
SPRTN	1q42.2	https://www.omim.org/entry/616086
SPRY4	5q31.3	https://www.omim.org/entry/607984
SPTA1	1q23.1	https://www.omim.org/entry/182860
SPTAN1	9q34.11	https://www.omim.org/entry/182810
SPTB	14q23.3	https://www.omim.org/entry/182870
SPTBN1	2p16.2	https://www.omim.org/entry/182790
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SPTLC1	9q22.31	https://www.omim.org/entry/605712
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SQOR	15q21.1	https://www.omim.org/entry/617658
SQSTM1	5q35.3	https://www.omim.org/entry/601530
SRA1	5q31.3	
SRC	20q11.23	https://www.omim.org/entry/190090
SRCAP	16p11.2	https://www.omim.org/entry/611421
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SRD5A3	4q12	https://www.omim.org/entry/611715
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SRGAP1	12q14.2	
SRP54	14q13.2	https://www.omim.org/entry/604857
SRP72	4q12	https://www.omim.org/entry/602122
SRPK3	Xq28	https://www.omim.org/entry/301002
SRRM2	16p13.3	https://www.omim.org/entry/606032
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SRY	Yp11.2	https://www.omim.org/entry/480000
SS18L1	20q13.33	
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SSR4	Xq28	https://www.omim.org/entry/300090
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ST14	11q24.3	https://www.omim.org/entry/606797
ST3GAL3	1p34.1	https://www.omim.org/entry/606494
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STAB1	3p21.1	
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STAG1	3q22.3	https://www.omim.org/entry/604358
STAG2	Xq25	https://www.omim.org/entry/300826
STAG3	7q22.1	https://www.omim.org/entry/608489
STAMBP	2p13.1	https://www.omim.org/entry/606247
STAP1	4q13.2	
STAR	8p11.23	https://www.omim.org/entry/600617
STARD7	2q11.2	https://www.omim.org/entry/616712

STAT1	2q32.2	https://www.omim.org/entry/600555
STAT2	12q13.3	https://www.omim.org/entry/600556
STAT3	17q21.2	https://www.omim.org/entry/102582
STAT4	2q32.2-q32.3	https://www.omim.org/entry/600558
STAT5B	17q21.2	https://www.omim.org/entry/604260
STAT6	12q13.3	https://www.omim.org/entry/601512
STEEP1	Xq24	
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STIM1	11p15.4	https://www.omim.org/entry/605921
STING1	5q31.2	https://www.omim.org/entry/612374
STK11	19p13.3	https://www.omim.org/entry/602216
STK4	20q13.12	https://www.omim.org/entry/604965
STN1	10q24.33	https://www.omim.org/entry/613128
STOX1	10q22.1	https://www.omim.org/entry/609397
STRA6	15q24.1	https://www.omim.org/entry/610745
STRADA	17q23.3	https://www.omim.org/entry/608626
STRC	15q15.3	https://www.omim.org/entry/606440
STS	Xp22.31	https://www.omim.org/entry/300747
STT3A	11q24.2	https://www.omim.org/entry/601134
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STUB1	16p13.3	https://www.omim.org/entry/607207
STX11	6q24.2	https://www.omim.org/entry/605014
STX16	20q13.32	https://www.omim.org/entry/603666
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STX1B	16p11.2	https://www.omim.org/entry/601485
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STXBP1	9q34.11	https://www.omim.org/entry/602926
STXBP2	19p13.2	https://www.omim.org/entry/601717
STXBP3	1p13.3	
SUCLA2	13q14.2	https://www.omim.org/entry/603921
SUCLG1	2p11.2	https://www.omim.org/entry/611224
SUCO	1q24.3	
SUFU	10q24.32	https://www.omim.org/entry/607035
SUGCT	7p14.1	https://www.omim.org/entry/609187
SULT2B1	19q13.33	https://www.omim.org/entry/604125
SUMF1	3p26.1	https://www.omim.org/entry/607939
SUN5	20q11.21	https://www.omim.org/entry/613942
SUOX	12q13.2	https://www.omim.org/entry/606887
SUPT16H	14q11.2	https://www.omim.org/entry/605012
SUPT5H	19q13.2	
SURF1	9q34.2	https://www.omim.org/entry/185620
SUZ12	17q11.2	https://www.omim.org/entry/606245
SV2A	1q21.2	https://www.omim.org/entry/185860
SVBP	1p34.2	https://www.omim.org/entry/617853
SVIL	10p11.23	https://www.omim.org/entry/604126
SYCE1	10q26.3	
SYCP2	20q13.33	https://www.omim.org/entry/604105
SYCP2L	6p24.2	https://www.omim.org/entry/616799
SYCP3	12q23.2	https://www.omim.org/entry/604759
SYK	9q22.2	https://www.omim.org/entry/600085

SYN1	Xp11.3-p11.2	https://www.omim.org/entry/313440
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SYNE1	6q25.2	https://www.omim.org/entry/608441
SYNE2	14q23.2	https://www.omim.org/entry/608442
SYNE4	19q13.12	https://www.omim.org/entry/615535
SYNGAP1	6p21.32	https://www.omim.org/entry/603384
SYNJ1	21q22.11	https://www.omim.org/entry/604297
SYP	Xp11.23	https://www.omim.org/entry/313475
SYT1	12q21.2	https://www.omim.org/entry/185605
SYT2	1q32.1	https://www.omim.org/entry/600104
SZT2	1p34.2	https://www.omim.org/entry/615463
TAB2	6q25.1	https://www.omim.org/entry/605101
TAC3	12q13.3	https://www.omim.org/entry/162330
TACC2	10q26.13	
TACO1	17q23.3	https://www.omim.org/entry/612958
TACR3	4q24	https://www.omim.org/entry/162332
TACSTD2	1p32.1	https://www.omim.org/entry/137290
TAF1	Xq13.1	https://www.omim.org/entry/313650
TAF13	1p13.3	https://www.omim.org/entry/600774
TAF15	17q12	
TAF2	8q24.12	https://www.omim.org/entry/604912
TAF4	20q13.33	https://www.omim.org/entry/601796
TAF6	7q22.1	https://www.omim.org/entry/602955
TAF8	6p21.1	https://www.omim.org/entry/609514
TAFAZZIN	Xq28	https://www.omim.org/entry/300394
TAL1	1p33	https://www.omim.org/entry/187040
TAL2	9q31.2	https://www.omim.org/entry/186855
TALDO1	11p15.5	https://www.omim.org/entry/602063
TAMM41	3p25.2	https://www.omim.org/entry/614948
TANC2	17q23.2-q23.	https://www.omim.org/entry/615047
TANGO2	22q11.21	https://www.omim.org/entry/616830
TAOK1	17q11.2	https://www.omim.org/entry/610266
TAP1	6p21.32	https://www.omim.org/entry/170260
TAP2	6p21.32	https://www.omim.org/entry/170261
TAPBP	6p21.32	
TAPT1	4p15.32	https://www.omim.org/entry/612758
TARDBP	1p36.22	https://www.omim.org/entry/605078
TARS1	5p13.3	https://www.omim.org/entry/187790
TARS2	1q21.2	https://www.omim.org/entry/612805
TASP1	20p12.1	https://www.omim.org/entry/608270
TAT	16q22.2	https://www.omim.org/entry/613018
TBC1D1	4p14	
TBC1D20	20p13	https://www.omim.org/entry/611663
TBC1D23	3q12.1-q12.2	https://www.omim.org/entry/617687
TBC1D24	16p13.3	https://www.omim.org/entry/613577
TBC1D2B	15q24.3-q25.	https://www.omim.org/entry/619152
TBC1D32	6q22.31	
TBC1D7	6p24.1	https://www.omim.org/entry/612655
TBC1D8B	Xq22.3	https://www.omim.org/entry/301027
TBCD	17q25.3	https://www.omim.org/entry/604649

TBCE	1q42.3	https://www.omim.org/entry/604934
TBCK	4q24	https://www.omim.org/entry/616899
TBK1	12q14.2	https://www.omim.org/entry/604834
TBL1X	Xp22.31-p22.	https://www.omim.org/entry/300196
TBL1XR1	3q26.32	https://www.omim.org/entry/608628
TBP	6q27	https://www.omim.org/entry/600075
TBR1	2q24.2	https://www.omim.org/entry/604616
TBX1	22q11.21	https://www.omim.org/entry/602054
TBX15	1p12	https://www.omim.org/entry/604127
TBX18	6q14.3	https://www.omim.org/entry/604613
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TBX5	12q24.21	https://www.omim.org/entry/601620
TBX6	16p11.2	https://www.omim.org/entry/602427
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TBXAS1	7q34	https://www.omim.org/entry/274180
TBXT	6q27	https://www.omim.org/entry/601397
TCAP	17q12	https://www.omim.org/entry/604488
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TCF12	15q21.3	https://www.omim.org/entry/600480
TCF20	22q13.2	https://www.omim.org/entry/603107
TCF3	19p13.3	https://www.omim.org/entry/147141
TCF4	18q21.2	https://www.omim.org/entry/602272
TCF7L2	10q25.2-q25.3	
TCIRG1	11q13.2	https://www.omim.org/entry/604592
TCN1	11q12.1	
TCN2	22q12.2	https://www.omim.org/entry/613441
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TCTN3	10q24.1	https://www.omim.org/entry/613847
TDP1	14q32.11	
TDP2	6p22.3	https://www.omim.org/entry/605764
TDRD7	9q22.33	https://www.omim.org/entry/611258
TDRD9	14q32.33	
TEAD1	11p15.3	https://www.omim.org/entry/189967
TECPR2	14q32.33	https://www.omim.org/entry/615000
TECR	19p13.12	https://www.omim.org/entry/610057
TECRL	4q13.1	https://www.omim.org/entry/617242
TECTA	11q23.3	https://www.omim.org/entry/602574
TEFM	17q11.2	https://www.omim.org/entry/616422
TEK	9p21.2	https://www.omim.org/entry/600221
TEKT3	17p12	https://www.omim.org/entry/612683
TELO2	16p13.3	https://www.omim.org/entry/611140
TENM3	4q34.3-q35.1	https://www.omim.org/entry/610083

TENM4	11q14.1	https://www.omim.org/entry/610084
TENT5A	6q14.1	https://www.omim.org/entry/611357
TERB1	16q22.1	https://www.omim.org/entry/617332
TERC	3q26.2	https://www.omim.org/entry/602322
TERT	5p15.33	https://www.omim.org/entry/187270
TET2	4q24	https://www.omim.org/entry/612839
TET3	2p13.1	https://www.omim.org/entry/613555
TEX11	Xq13.1	https://www.omim.org/entry/300311
TEX14	17q22	https://www.omim.org/entry/605792
TEX15	8p12	https://www.omim.org/entry/605795
TF	3q22.1	https://www.omim.org/entry/190000
TFAM	10q21.1	
TFAP2A	6p24.3	https://www.omim.org/entry/107580
TFAP2B	6p12.3	https://www.omim.org/entry/601601
TFE3	Xp11.23	https://www.omim.org/entry/314310
TFG	3q12.2	https://www.omim.org/entry/602498
TFR2	7q22.1	https://www.omim.org/entry/604720
TFRC	3q29	https://www.omim.org/entry/190010
TG	8q24.22	https://www.omim.org/entry/188450
TGDS	13q32.1	https://www.omim.org/entry/616146
TGFB1	19q13.2	https://www.omim.org/entry/190180
TGFB2	1q41	https://www.omim.org/entry/190220
TGFB3	14q24.3	https://www.omim.org/entry/190230
TGFB1	5q31.1	https://www.omim.org/entry/601692
TGFBR1	9q22.33	https://www.omim.org/entry/190181
TGFBR2	3p24.1	https://www.omim.org/entry/190182
TGIF1	18p11.31	https://www.omim.org/entry/602630
TGM1	14q12	https://www.omim.org/entry/190195
TGM5	15q15.2	https://www.omim.org/entry/603805
TGM6	20p13	https://www.omim.org/entry/613900
TH	11p15.5	https://www.omim.org/entry/191290
THAP1	8p11.21	https://www.omim.org/entry/609520
THAP11	16q22.1	https://www.omim.org/entry/609119
THBD	20p11.21	https://www.omim.org/entry/188040
THBS1	15q14	
THBS2	6q27	
THG1L	5q33.3	https://www.omim.org/entry/618802
THOC2	Xq25	https://www.omim.org/entry/300395
THOC6	16p13.3	https://www.omim.org/entry/615403
THPO	3q27.1	https://www.omim.org/entry/600044
THRA	17q21.1	https://www.omim.org/entry/190120
THRB	3p24.2	https://www.omim.org/entry/190160
THSD1	13q14.3	https://www.omim.org/entry/616821
THSD4	15q23	https://www.omim.org/entry/614476
THUMPD1	16p12.3	https://www.omim.org/entry/616662
TIA1	2p13.3	https://www.omim.org/entry/603518
TIAM1	21q22.11	https://www.omim.org/entry/600687
TICAM1	19p13.3	
TIE1	1p34.2	https://www.omim.org/entry/600222
TIMM50	19q13.2	https://www.omim.org/entry/607381

TIMM8A	Xq22.1	https://www.omim.org/entry/300356
TIMMDC1	3q13.33	https://www.omim.org/entry/615534
TIMP3	22q12.3	https://www.omim.org/entry/188826
TINF2	14q12	https://www.omim.org/entry/604319
TIRAP	11q24.2	
TJP2	9q21.11	https://www.omim.org/entry/607709
TK2	16q21	https://www.omim.org/entry/188250
TKFC	11q12.2	https://www.omim.org/entry/615844
TKT	3p21.1	https://www.omim.org/entry/606781
TLCD3B	16p11.2	https://www.omim.org/entry/615175
TLE6	19p13.3	https://www.omim.org/entry/612399
TLK2	17q23.2	https://www.omim.org/entry/608439
TLL1	4q32.3	https://www.omim.org/entry/606742
TLR3	4q35.1	
TLR4	9q33.1	
TLR7	Xp22.2	https://www.omim.org/entry/300365
TLR8	Xp22.2	https://www.omim.org/entry/300366
TM4SF20	2q36.3	
TMC1	9q21.13	https://www.omim.org/entry/606706
TMC6	17q25.3	
TMC8	17q25.3	
TMCO1	1q24.1	https://www.omim.org/entry/614123
TMEFF1	9q31.1	
TMEM106F	7p21.3	https://www.omim.org/entry/613413
TMEM107	17p13.1	https://www.omim.org/entry/616183
TMEM126F	11q14.1	https://www.omim.org/entry/612988
TMEM126F	11q14.1	https://www.omim.org/entry/615533
TMEM127	2q11.2	
TMEM132F	17q12	https://www.omim.org/entry/616178
TMEM138	11q12.2	https://www.omim.org/entry/614459
TMEM147	19q13.12	https://www.omim.org/entry/613585
TMEM151F	11q13.2	https://www.omim.org/entry/620108
TMEM163	2q21.3	https://www.omim.org/entry/618978
TMEM165	4q12	https://www.omim.org/entry/614726
TMEM199	17q11.2	https://www.omim.org/entry/616815
TMEM216	11q13.1	https://www.omim.org/entry/613277
TMEM218	11q24.2	https://www.omim.org/entry/619285
TMEM222	1p36.11	https://www.omim.org/entry/619469
TMEM230	20p13-p12.3	
TMEM231	16q23.1	https://www.omim.org/entry/614949
TMEM237	2q33.1	https://www.omim.org/entry/614423
TMEM240	1p36.33	https://www.omim.org/entry/616101
TMEM260	14q22.3	https://www.omim.org/entry/617449
TMEM38B	9q31.2	https://www.omim.org/entry/611236
TMEM43	3p25.1	https://www.omim.org/entry/612048
TMEM53	1p34.1	https://www.omim.org/entry/619722
TMEM63A	1q42.12	https://www.omim.org/entry/618685
TMEM63B	6p21.1	
TMEM63C	14q24.3	https://www.omim.org/entry/619953
TMEM67	8q22.1	https://www.omim.org/entry/609884

TMEM70	8q21.11	https://www.omim.org/entry/612418
TMEM94	17q25.1	https://www.omim.org/entry/618163
TMEM98	17q11.2	https://www.omim.org/entry/615949
TMIE	3p21.31	https://www.omim.org/entry/607237
TMLHE	Xq28	
TMPRSS15	21q21.1	https://www.omim.org/entry/606635
TMPRSS2	21q22.3	
TMPRSS3	21q22.3	https://www.omim.org/entry/605511
TMPRSS6	22q12.3	https://www.omim.org/entry/609862
TMTC3	12q21.32	https://www.omim.org/entry/617218
TMX2	11q12.1	https://www.omim.org/entry/616715
TNC	9q33.1	https://www.omim.org/entry/187380
TNF	6p21.33	
TNFAIP3	6q23.3	https://www.omim.org/entry/191163
TNFRSF10B	8p21.3	https://www.omim.org/entry/603612
TNFRSF11A	18q21.33	https://www.omim.org/entry/603499
TNFRSF11B	8q24.12	https://www.omim.org/entry/602643
TNFRSF13B	17p11.2	https://www.omim.org/entry/604907
TNFRSF13C	22q13.2	https://www.omim.org/entry/606269
TNFRSF14	1p36.32	
TNFRSF18	1p36.33	
TNFRSF1A	12p13.31	https://www.omim.org/entry/191190
TNFRSF21	6p12.3	
TNFRSF4	1p36.33	
TNFRSF9	1p36.23	https://www.omim.org/entry/602250
TNFSF11	13q14.11	https://www.omim.org/entry/602642
TNFSF12	17p13.1	
TNFSF4	1q25.1	
TNIK	3q26.2-q26.3	https://www.omim.org/entry/610005
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TNNC2	20q13.12	https://www.omim.org/entry/191039
TNNI2	11p15.5	https://www.omim.org/entry/191043
TNNI3	19q13.42	https://www.omim.org/entry/191044
TNNI3K	1p31.1	https://www.omim.org/entry/613932
TNNT1	19q13.42	https://www.omim.org/entry/191041
TNNT2	1q32.1	https://www.omim.org/entry/191045
TNNT3	11p15.5	https://www.omim.org/entry/600692
TNPO2	19p13.13	https://www.omim.org/entry/603002
TNPO3	7q32.1	https://www.omim.org/entry/610032
TNR	1q25.1	https://www.omim.org/entry/601995
TNRC6B	22q13.1	https://www.omim.org/entry/610740
TNS2	12q13.13	
TNXB	6p21.33-p21.	https://www.omim.org/entry/600985
TOE1	1p34.1	https://www.omim.org/entry/613931
TOGARAM	14q21.2	https://www.omim.org/entry/617618
TOMM7	7p15.3	https://www.omim.org/entry/607980
TOMM70	3q12.2	
TONSL	8q24.3	https://www.omim.org/entry/604546
TOP1	20q12	https://www.omim.org/entry/126420
TOP2A	17q21.2	https://www.omim.org/entry/126430

TOP2B	3p24.2	https://www.omim.org/entry/126431
TOP3A	17p11.2	https://www.omim.org/entry/601243
TOP6BL	11q13.2	https://www.omim.org/entry/616109
TOPORS	9p21.1	https://www.omim.org/entry/609507
TOR1A	9q34.11	https://www.omim.org/entry/605204
TOR1AIP1	1q25.2	
TP53	17p13.1	https://www.omim.org/entry/191170
TP53RK	20q13.12	https://www.omim.org/entry/608679
TP63	3q28	https://www.omim.org/entry/603273
TP73	1p36.32	https://www.omim.org/entry/601990
TPH1	11p15.1	
TPH2	12q21.1	
TPI1	12p13.31	https://www.omim.org/entry/190450
TPK1	7q35	https://www.omim.org/entry/606370
TPM1	15q22.2	https://www.omim.org/entry/191010
TPM2	9p13.3	https://www.omim.org/entry/190990
TPM3	1q21.3	https://www.omim.org/entry/191030
TPM4	19p13.12-p13.11	https://www.omim.org/entry/600317
TPMT	6p22.3	
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TPP2	13q33.1	https://www.omim.org/entry/190470
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TPSAB1	16p13.3	
TRA2B	3q27.2	
TRAF3	14q32.32	
TRAF3IP1	2q37.3	https://www.omim.org/entry/607380
TRAF3IP2	6q21	
TRAF7	16p13.3	https://www.omim.org/entry/606692
TRAIP	3p21.31	https://www.omim.org/entry/605958
TRAK1	3p22.1	https://www.omim.org/entry/608112
TRAP1	16p13.3	
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TRAPPC11	4q35.1	https://www.omim.org/entry/614138
TRAPPC12	2p25.3	https://www.omim.org/entry/614139
TRAPPC2	Xp22.2	https://www.omim.org/entry/300202
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TRAPPC4	11q23.3	https://www.omim.org/entry/610971
TRAPPC6B	14q21.1	https://www.omim.org/entry/610397
TRAPPC9	8q24.3	https://www.omim.org/entry/611966
TRDN	6q22.31	https://www.omim.org/entry/603283
TREH	11q23.3	https://www.omim.org/entry/275360
TREM2	6p21.1	https://www.omim.org/entry/605086
TREX1	3p21.31	https://www.omim.org/entry/606609
TRHR	8q23.1	https://www.omim.org/entry/188545
TRIM2	4q31.3	https://www.omim.org/entry/614141
TRIM22	11p15.4	
TRIM28	19q13.43	
TRIM32	9q33.1	https://www.omim.org/entry/602290

TRIM37	17q22	https://www.omim.org/entry/605073
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TRIM8	10q24.32	https://www.omim.org/entry/606125
TRIO	5p15.2	https://www.omim.org/entry/601893
TRIOBP	22q13.1	https://www.omim.org/entry/609761
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TRIP12	2q36.3	https://www.omim.org/entry/604506
TRIP13	5p15.33	https://www.omim.org/entry/604507
TRIP4	15q22.31	https://www.omim.org/entry/604501
TRIT1	1p34.2	https://www.omim.org/entry/617840
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TRMT10A	4q23	https://www.omim.org/entry/616013
TRMT10C	3q12.3	https://www.omim.org/entry/615423
TRMT5	14q23.1	https://www.omim.org/entry/611023
TRMU	22q13.31	https://www.omim.org/entry/610230
TRNT1	3p26.2	https://www.omim.org/entry/612907
TRPA1	8q21.11	
TRPC6	11q22.1	https://www.omim.org/entry/603652
TRPM1	15q13.3	https://www.omim.org/entry/603576
TRPM3	9q21.12-q21.1	https://www.omim.org/entry/608961
TRPM4	19q13.33	https://www.omim.org/entry/606936
TRPM6	9q21.13	https://www.omim.org/entry/607009
TRPM7	15q21.2	
TRPS1	8q23.3	https://www.omim.org/entry/604386
TRPV3	17p13.2	https://www.omim.org/entry/607066
TRPV4	12q24.11	https://www.omim.org/entry/605427
TRPV6	7q34	https://www.omim.org/entry/606680
TRRAP	7q22.1	https://www.omim.org/entry/603015
TSC1	9q34.13	https://www.omim.org/entry/605284
TSC2	16p13.3	https://www.omim.org/entry/191092
TSEN15	1q25.3	https://www.omim.org/entry/608756
TSEN2	3p25.2	https://www.omim.org/entry/608753
TSEN34	19q13.42	
TSEN54	17q25.1	https://www.omim.org/entry/608755
TSFM	12q14.1	https://www.omim.org/entry/604723
TSHB	1p13.2	https://www.omim.org/entry/188540
TSHR	14q24-q31	https://www.omim.org/entry/603372
TSHZ1	18q22.3	https://www.omim.org/entry/614427
TSPAN12	7q31.31	https://www.omim.org/entry/613138
TSPAN7	Xp11.4	https://www.omim.org/entry/300096
TSPEAR	21q22.3	https://www.omim.org/entry/612920
TSPOAP1	17q22	https://www.omim.org/entry/610764
TSPYL1	6q22.1	https://www.omim.org/entry/604714
TSR1	17p13.3	
TSR2	Xp11.22	
TTBK2	15q15.2	https://www.omim.org/entry/611695
TTC12	11q23.2	https://www.omim.org/entry/610732
TTC19	17p12	https://www.omim.org/entry/613814
TTC21A	3p22.2	https://www.omim.org/entry/611430

TTC21B	2q24.3	https://www.omim.org/entry/612014
TTC29	4q31.22	https://www.omim.org/entry/618735
TTC5	14q11.2	https://www.omim.org/entry/619014
TTC7A	2p21	https://www.omim.org/entry/609332
TTC8	14q31.3	https://www.omim.org/entry/608132
TTF1	9q34.13	
TTI1	20q11.23	https://www.omim.org/entry/614425
TTI2	8p12	https://www.omim.org/entry/614426
TTLL5	14q24.3	https://www.omim.org/entry/612268
TTN	2q31.2	https://www.omim.org/entry/188840
TPPA	8q12.3	https://www.omim.org/entry/600415
TTR	18q12.1	https://www.omim.org/entry/176300
TUB	11p15.4	
TUBA1A	12q13.12	https://www.omim.org/entry/602529
TUBA3D	2q21.1	https://www.omim.org/entry/617878
TUBA4A	2q35	https://www.omim.org/entry/191110
TUBA8	22q11.21	https://www.omim.org/entry/605742
TUBB	6p21.33	https://www.omim.org/entry/191130
TUBB1	20q13.32	https://www.omim.org/entry/612901
TUBB2A	6p25.2	https://www.omim.org/entry/615101
TUBB2B	6p25.2	https://www.omim.org/entry/612850
TUBB3	16q24.3	https://www.omim.org/entry/602661
TUBB4A	19p13.3	https://www.omim.org/entry/602662
TUBB4B	9q34.3	https://www.omim.org/entry/602660
TUBB8	10p15.3	https://www.omim.org/entry/616768
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TUBGCP2	10q26.3	https://www.omim.org/entry/617817
TUBGCP4	15q15.3	https://www.omim.org/entry/609610
TUBGCP6	22q13.33	https://www.omim.org/entry/610053
TUFM	16p11.2	https://www.omim.org/entry/602389
TUFT1	1q21.3	https://www.omim.org/entry/600087
TULP1	6p21.31	https://www.omim.org/entry/602280
TULP3	12p13.33	https://www.omim.org/entry/604730
TUSC3	8p22	https://www.omim.org/entry/601385
TWIST1	7p21.1	https://www.omim.org/entry/601622
TWIST2	2q37.3	https://www.omim.org/entry/607556
TWNK	10q24.31	https://www.omim.org/entry/606075
TXNDC15	5q31.1	https://www.omim.org/entry/617778
TXNL4A	18q23	https://www.omim.org/entry/611595
TXNRD2	22q11.21	
TYK2	19p13.2	https://www.omim.org/entry/176941
TYMP	22q13.33	https://www.omim.org/entry/131222
TYMS	18p11.32	https://www.omim.org/entry/188350
TYR	11q14.3	https://www.omim.org/entry/606933
TYROBP	19q13.12	https://www.omim.org/entry/604142
TYRP1	9p23	https://www.omim.org/entry/115501
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U2AF2	19q13.42	https://www.omim.org/entry/191318
UBA1	Xp11.3	https://www.omim.org/entry/314370
UBA2	19q13.11	https://www.omim.org/entry/613295

UBA5	3q22.1	https://www.omim.org/entry/610552
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UBAP2L	1q21.3	https://www.omim.org/entry/616472
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UBE3C	7q36.3	https://www.omim.org/entry/614454
UBE4A	11q23.3	https://www.omim.org/entry/603753
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UBR7	14q32.12	https://www.omim.org/entry/613816
UBTF	17q21.31	https://www.omim.org/entry/600673
UCHL1	4p13	https://www.omim.org/entry/191342
UCP3	11q13.4	
UFC1	1q23.3	https://www.omim.org/entry/610554
UFM1	13q13.3	https://www.omim.org/entry/610553
UFSP2	4q35.1	https://www.omim.org/entry/611482
UGDH	4p14	https://www.omim.org/entry/603370
UGP2	2p15	https://www.omim.org/entry/191760
UGT1A1	2q37.1	https://www.omim.org/entry/191740
UMOD	16p12.3	https://www.omim.org/entry/191845
UMPS	3q21.2	https://www.omim.org/entry/613891
UNC119	17q11.2	https://www.omim.org/entry/604011
UNC13A	19p13.11	
UNC13D	17q25.3	https://www.omim.org/entry/608897
UNC45A	15q26.1	https://www.omim.org/entry/611219
UNC45B	17q12	https://www.omim.org/entry/611220
UNC79	14q32.12	
UNC80	2q34	https://www.omim.org/entry/612636
UNC93B1	11q13.2	
UNG	12q24.11	https://www.omim.org/entry/191525
UPB1	22q11.23	https://www.omim.org/entry/606673
UPF1	19p13.11	
UPF3B	Xq24	https://www.omim.org/entry/300298
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UQCRC1	3p21.31	https://www.omim.org/entry/191328
UQCRC2	16p12.2	https://www.omim.org/entry/191329
UQCRFS1	19q12	https://www.omim.org/entry/191327
UQCRCQ	5q31.1	https://www.omim.org/entry/612080
UROC1	3q21.3	
UROD	1p34.1	https://www.omim.org/entry/613521
UROS	10q26.2	https://www.omim.org/entry/606938
USB1	16q21	https://www.omim.org/entry/613276
USH1C	11p15.1	https://www.omim.org/entry/605242
USH1G	17q25.1	https://www.omim.org/entry/607696
USH2A	1q41	https://www.omim.org/entry/608400

USP14	18p11.32	
USP18	22q11.21	https://www.omim.org/entry/607057
USP25	21q21.1	
USP26	Xq26.2	https://www.omim.org/entry/300309
USP27X	Xp11.23	https://www.omim.org/entry/300975
USP45	6q16.2	
USP48	1p36.12	https://www.omim.org/entry/617445
USP53	4q26	https://www.omim.org/entry/617431
USP7	16p13.2	https://www.omim.org/entry/602519
USP8	15q21.2	https://www.omim.org/entry/603158
USP9X	Xp11.4	https://www.omim.org/entry/300072
USP9Y	Yq11.221	https://www.omim.org/entry/400005
UVSSA	4p16.3	https://www.omim.org/entry/614632
VAC14	16q22.1-q22.	https://www.omim.org/entry/604632
VAMP1	12p13.31	https://www.omim.org/entry/185880
VAMP2	17p13.1	https://www.omim.org/entry/185881
VANGL1	1p13.1	https://www.omim.org/entry/610132
VANGL2	1q23.2	https://www.omim.org/entry/600533
VAPB	20q13.32	https://www.omim.org/entry/605704
VARS1	6p21.33	https://www.omim.org/entry/192150
VARS2	6p21.33	https://www.omim.org/entry/612802
VCAN	5q14.2-q14.3	https://www.omim.org/entry/118661
VCL	10q22.2	https://www.omim.org/entry/193065
VCP	9p13.3	https://www.omim.org/entry/601023
VDR	12q13.11	https://www.omim.org/entry/601769
VEGFA	6p21.1	
VEGFC	4q34.3	https://www.omim.org/entry/601528
VGLL2	6q22.1	
VHL	3p25.3	https://www.omim.org/entry/608537
VIM	10p13	https://www.omim.org/entry/193060
VIPAS39	14q24.3	https://www.omim.org/entry/613401
VKORC1	16p11.2	https://www.omim.org/entry/608547
VLDLR	9p24.2	https://www.omim.org/entry/192977
VMA21	Xq28	https://www.omim.org/entry/300913
VPS11	11q23.3	https://www.omim.org/entry/608549
VPS13A	9q21.2	https://www.omim.org/entry/605978
VPS13B	8q22.2	https://www.omim.org/entry/607817
VPS13C	15q22.2	https://www.omim.org/entry/608879
VPS13D	1p36.22-p36.	https://www.omim.org/entry/608877
VPS16	20p13	https://www.omim.org/entry/608550
VPS33A	12q24.31	https://www.omim.org/entry/610034
VPS33B	15q26.1	https://www.omim.org/entry/608552
VPS35	16q11.2	
VPS35L	16p12.3	https://www.omim.org/entry/618981
VPS37A	8p22	https://www.omim.org/entry/609927
VPS41	7p14.1	https://www.omim.org/entry/605485
VPS45	1q21.2	https://www.omim.org/entry/610035
VPS4A	16q23.1	https://www.omim.org/entry/609982
VPS50	7q21.2-q21.3	https://www.omim.org/entry/616465
VPS51	11q13.1	https://www.omim.org/entry/615738

VPS53	17p13.3	https://www.omim.org/entry/615850
VRK1	14q32.2	https://www.omim.org/entry/602168
VSIR	10q22.1	
VSX1	20p11.21	https://www.omim.org/entry/605020
VSX2	14q24.3	https://www.omim.org/entry/142993
VWA1	1p36.33	https://www.omim.org/entry/611901
VWA8	13q14.11	
VWF	12p13.31	https://www.omim.org/entry/613160
WAC	10p12.1	https://www.omim.org/entry/615049
WARS1	14q32.2	https://www.omim.org/entry/191050
WARS2	1p12	https://www.omim.org/entry/604733
WAS	Xp11.23	https://www.omim.org/entry/300392
WASF1	6q21	https://www.omim.org/entry/605035
WASHC4	12q23.3	https://www.omim.org/entry/615748
WASHC5	8q24.13	https://www.omim.org/entry/610657
WBP11	12p12.3	https://www.omim.org/entry/618083
WBP2	17q25.1	https://www.omim.org/entry/606962
WBP4	13q14.11	https://www.omim.org/entry/604981
WDFY3	4q21.23	
WDPCP	2p15	https://www.omim.org/entry/613580
WDR1	4p16.1	https://www.omim.org/entry/604734
WDR11	10q26.12	https://www.omim.org/entry/606417
WDR19	4p14	https://www.omim.org/entry/608151
WDR26	1q42.11-q42.	https://www.omim.org/entry/617424
WDR35	2p24.1	https://www.omim.org/entry/613602
WDR36	5q22.1	https://www.omim.org/entry/609669
WDR37	10p15.3	https://www.omim.org/entry/618586
WDR4	21q22.3	https://www.omim.org/entry/605924
WDR44	Xq24	
WDR45	Xp11.23	https://www.omim.org/entry/300526
WDR45B	17q25.3	https://www.omim.org/entry/609226
WDR5	9q34.2	
WDR62	19q13.12	https://www.omim.org/entry/613583
WDR72	15q21.3	https://www.omim.org/entry/613214
WDR73	15q25.2	https://www.omim.org/entry/616144
WDR81	17p13.3	https://www.omim.org/entry/614218
WDR83OS	19p13.13	
WDR91	7q33	
WEE2	7q34	https://www.omim.org/entry/614084
WFDC2	20q13.12	https://www.omim.org/entry/617548
WFS1	4p16.1	https://www.omim.org/entry/606201
WHRN	9q32	https://www.omim.org/entry/607928
WIPF1	2q31.1	https://www.omim.org/entry/602357
WIP12	7p22.1	
WLS	1p31.3	https://www.omim.org/entry/611514
WNK1	12p13.33	https://www.omim.org/entry/605232
WNK3	Xp11.22	https://www.omim.org/entry/300358
WNK4	17q21.2	https://www.omim.org/entry/601844
WNT1	12q13.12	https://www.omim.org/entry/164820
WNT10A	2q35	https://www.omim.org/entry/606268

WNT10B	12q13.12	https://www.omim.org/entry/601906
WNT11	11q13.5	
WNT2B	1p13.2	https://www.omim.org/entry/601968
WNT3	17q21.31-q21.32	
WNT4	1p36.12	https://www.omim.org/entry/603490
WNT5A	3p14.3	https://www.omim.org/entry/164975
WNT7A	3p25.1	https://www.omim.org/entry/601570
WNT7B	22q13.31	
WNT9B	17q21.32	
WRAP53	17p13.1	https://www.omim.org/entry/612661
WRN	8p12	https://www.omim.org/entry/604611
WT1	11p13	https://www.omim.org/entry/607102
WWOX	16q23.1-q23.	https://www.omim.org/entry/605131
WWP1	8q21.3	
XDH	2p23.1	https://www.omim.org/entry/607633
XIAP	Xq25	https://www.omim.org/entry/300079
XIST	Xq13.2	https://www.omim.org/entry/314670
XK	Xp21.1	https://www.omim.org/entry/314850
XPA	9q22.33	https://www.omim.org/entry/611153
XPC	3p25.1	https://www.omim.org/entry/613208
XPNPEP3	22q13.2	https://www.omim.org/entry/613553
XPR1	1q25.3	https://www.omim.org/entry/605237
XRCC1	19q13.31	
XRCC2	7q36.1	https://www.omim.org/entry/600375
XRCC4	5q14.2	https://www.omim.org/entry/194363
XYLT1	16p12.3	https://www.omim.org/entry/608124
XYLT2	17q21.33	https://www.omim.org/entry/608125
YAP1	11q22.1	https://www.omim.org/entry/606608
YARS1	1p35.1	https://www.omim.org/entry/603623
YARS2	12p11.21	https://www.omim.org/entry/610957
YIF1B	19q13.2	https://www.omim.org/entry/619109
YIPF5	5q31.3	https://www.omim.org/entry/611483
YRDC	1p34.3	https://www.omim.org/entry/612276
YWHAE	17p13.3	
YWHAG	7q11.23	https://www.omim.org/entry/605356
YY1	14q32.2	https://www.omim.org/entry/600013
YY1AP1	1q22	https://www.omim.org/entry/607860
ZAP70	2q11.2	https://www.omim.org/entry/176947
ZBTB11	3q12.3	https://www.omim.org/entry/618181
ZBTB16	11q23.2	https://www.omim.org/entry/176797
ZBTB18	1q44	https://www.omim.org/entry/608433
ZBTB20	3q13.31	https://www.omim.org/entry/606025
ZBTB24	6q21	https://www.omim.org/entry/614064
ZBTB47	3p22.1	
ZBTB7A	19p13.3	https://www.omim.org/entry/605878
ZC3H14	14q31.3	https://www.omim.org/entry/613279
ZC4H2	Xq11.2	https://www.omim.org/entry/300897
ZCCHC8	12q24.31	
ZDHHC9	Xq26.1	https://www.omim.org/entry/300646
ZEB1	10p11.22	https://www.omim.org/entry/189909

ZEB2	2q22.3	https://www.omim.org/entry/605802
ZFHx3	16q22.2-q22.	https://www.omim.org/entry/104155
ZFHx4	8q21.13	
ZFP36L2	2p21	https://www.omim.org/entry/612053
ZFP57	6p22.1	https://www.omim.org/entry/612192
ZFPM2	8q23	https://www.omim.org/entry/603693
ZFTRAF1	8q24.3	
ZFX	Xp22.11	https://www.omim.org/entry/314980
ZFYVE19	15q15.1	https://www.omim.org/entry/619635
ZFYVE26	14q24.1	https://www.omim.org/entry/612012
ZIC1	3q24	https://www.omim.org/entry/600470
ZIC2	13q32.3	https://www.omim.org/entry/603073
ZIC3	Xq26.3	https://www.omim.org/entry/300265
ZMIZ1	10q22.3	https://www.omim.org/entry/607159
ZMPSTE24	1p34.2	https://www.omim.org/entry/606480
ZMYM2	13q12.11	https://www.omim.org/entry/602221
ZMYM3	Xq13.1	https://www.omim.org/entry/300061
ZMYND10	3p21.31	https://www.omim.org/entry/607070
ZMYND11	10p15.3	https://www.omim.org/entry/608668
ZMYND15	17p13.2	
ZMYND8	20q13.12	
ZNF142	2q35	https://www.omim.org/entry/604083
ZNF148	3q21.2	https://www.omim.org/entry/601897
ZNF292	6q14.3	https://www.omim.org/entry/616213
ZNF335	20q13.12	https://www.omim.org/entry/610827
ZNF341	20q11.22	https://www.omim.org/entry/618269
ZNF407	18q23	https://www.omim.org/entry/615894
ZNF408	11p11.2	https://www.omim.org/entry/616454
ZNF423	16q12.1	https://www.omim.org/entry/604557
ZNF462	9q31.2	https://www.omim.org/entry/617371
ZNF469	16q24.2	https://www.omim.org/entry/612078
ZNF526	19q13.2	https://www.omim.org/entry/614387
ZNF644	1p22.2	https://www.omim.org/entry/614159
ZNF668	16p11.2	https://www.omim.org/entry/617103
ZNF687	1q21.3	https://www.omim.org/entry/610568
ZNF699	19p13.2	https://www.omim.org/entry/609571
ZNF711	Xq21.1	https://www.omim.org/entry/314990
ZNF750	17q25.3	
ZNF808	19q13.41	<a href="https://www.omim.org/entry/<NA>">https://www.omim.org/entry/<NA>
ZNFX1	20q13.13	https://www.omim.org/entry/618931
ZNHIT3	17q12	https://www.omim.org/entry/604500
ZNRF3	22q12.1	
ZP1	11q12.2	https://www.omim.org/entry/195000
ZP2	16p12.3-p12.	https://www.omim.org/entry/182888
ZP3	7q11.23	https://www.omim.org/entry/182889
ZRSR2	Xp22.2	https://www.omim.org/entry/300028
ZSCAN10	16p13.3	https://www.omim.org/entry/618365
ZSWIM6	5q12.1	https://www.omim.org/entry/615951
ZSWIM7	17p12	https://www.omim.org/entry/614535
GUCY2D		

C12orf65
LHX1
CBX2

Disease Group

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Tumor

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Individuelle Gene nach Symptomatik

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Individuelle Gene nach Symptomatik
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Skelett- und Bindegewebe

Individuelle Gene nach Symptomatik

Individuelle Gene nach Symptomatik

Skelett- und Bindegewebe

Individuelle Gene nach Symptomatik

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Reproduktionsgenetik

Symbol	Location	OMIM_url
ANOS1	Xp22.31	https://www.omim.org/entry/300836
AR	Xq12	https://www.omim.org/entry/313700
BMP15	Xp11.22	https://www.omim.org/entry/300247
CHD7	8q12.2	https://www.omim.org/entry/608892
CLPP	19p13.3	https://www.omim.org/entry/601119
DHH	12q13.12	https://www.omim.org/entry/605423
DMRT1	9p24.3	
FGF8	10q24.32	https://www.omim.org/entry/600483
FGFR1	8p11.23	https://www.omim.org/entry/136350
FIGLA	2p13.3	https://www.omim.org/entry/608697
FSHB	11p14.1	https://www.omim.org/entry/136530
FSHR	2p16.3	https://www.omim.org/entry/136435
GNRH1	8p21.2	
HARS2	5q31.3	https://www.omim.org/entry/600783
HFM1	1p22.2	https://www.omim.org/entry/615684
HNF1B	17q12	https://www.omim.org/entry/189907
HS6ST1	2q14.3	
HSD17B3	9q22.32	https://www.omim.org/entry/605573
KISS1	1q32.1	
KISS1R	19p13.3	https://www.omim.org/entry/604161
LARS2	3p21.31	https://www.omim.org/entry/604544
MAMLD1	Xq28	https://www.omim.org/entry/300120
MAP3K1	5q11.2	https://www.omim.org/entry/600982
MCM8	20p12.3	
NOBOX	7q35	https://www.omim.org/entry/610934
NR5A1	9q33.3	https://www.omim.org/entry/184757
NSMF	9q34.3	https://www.omim.org/entry/608137
PROK2	3p13	https://www.omim.org/entry/607002
PROKR2	20p12.3	https://www.omim.org/entry/607123
SPRY4	5q31.3	https://www.omim.org/entry/607984
SRD5A2	2p23.1	https://www.omim.org/entry/607306
SRX	Yp11.2	https://www.omim.org/entry/480000
STAG3	7q22.1	https://www.omim.org/entry/608489
TAC3	12q13.3	https://www.omim.org/entry/162330
TACR3	4q24	https://www.omim.org/entry/162332
TBX1	22q11.21	https://www.omim.org/entry/602054
TBX6	16p11.2	https://www.omim.org/entry/602427
TEX11	Xq13.1	https://www.omim.org/entry/300311
TEX14	17q22	https://www.omim.org/entry/605792
WNT4	1p36.12	https://www.omim.org/entry/603490
WNT9B	17q21.32	
WT1	11p13	https://www.omim.org/entry/607102
LHX1		
CBX2		
SOX9	17q24.3	https://www.omim.org/entry/608160

Tumorprädisposition

Symbol	Location	OMIM_url
APC	5q22.2	https://www.omim.org/entry/611731
ATM	11q22.3	https://www.omim.org/entry/607585
BRCA1	17q21.31	https://www.omim.org/entry/113705
BRCA2	13q13.1	https://www.omim.org/entry/600185
CDKN2A	9p21.3	
CHEK2	22q12.1	https://www.omim.org/entry/604373
MAX	14q23.3	https://www.omim.org/entry/154950
MLH1	3p22.2	https://www.omim.org/entry/120436
MSH2	2p21-p16.3	https://www.omim.org/entry/609309
MSH3	5q14.1	https://www.omim.org/entry/600887
MSH6	2p16.3	https://www.omim.org/entry/600678
MUTYH	1p34.1	https://www.omim.org/entry/604933
NTHL1	16p13.3	https://www.omim.org/entry/602656
PALB2	16p12.2	https://www.omim.org/entry/610355
PMS2	7p22.1	https://www.omim.org/entry/600259
POLD1	19q13.3	https://www.omim.org/entry/174761
POLE	12q24.33	https://www.omim.org/entry/174762
RAD51C	17q22	https://www.omim.org/entry/602774
RET	10q11.21	https://www.omim.org/entry/164761
SDHA	5p15.33	https://www.omim.org/entry/600857
SDHAF2	11q12.2	https://www.omim.org/entry/613019
SDHB	1p36.13	https://www.omim.org/entry/185470
SDHC	1q23.3	https://www.omim.org/entry/602413
SMARCB1	22q11.23	https://www.omim.org/entry/601607
TMEM127	2q11.2	
VHL	3p25.3	https://www.omim.org/entry/608537

Augenerkrankungen

Symbol	Location	OMIM_url
ABCA4	1p22.1	https://www.omim.org/entry/601691
ACO2	22q13.2	https://www.omim.org/entry/100850
AIPL1	17p13.2	https://www.omim.org/entry/604392
ANTXR1	2p13.3	https://www.omim.org/entry/606410
ATP1A3	19q13.2	https://www.omim.org/entry/182350
BEST1	11q12.3	https://www.omim.org/entry/607854
CDH23	10q22.1	https://www.omim.org/entry/605516
CDHR1	10q23.1	https://www.omim.org/entry/609502
CEP290	12q21.32	https://www.omim.org/entry/610142
CISD2	4q24	https://www.omim.org/entry/611507
CNGB3	8q21.3	https://www.omim.org/entry/605080
CRB1	1q31.3	https://www.omim.org/entry/604210
CRX	19q13.33	https://www.omim.org/entry/602225
DNM1L	12p11.21	https://www.omim.org/entry/603850
ELOVL4	6q14.1	https://www.omim.org/entry/605512
GUCA1A	6p21.1	https://www.omim.org/entry/600364
GUCY2D	17p13.1	https://www.omim.org/entry/600179
IMPG1	6q14.1	https://www.omim.org/entry/602870
IMPG2	3q12.3	https://www.omim.org/entry/607056
KCNV2	9p24.2	https://www.omim.org/entry/607604
LRAT	4q32.1	https://www.omim.org/entry/604863
MYO7A	11q13.5	https://www.omim.org/entry/276903
NR2F1	5q15	https://www.omim.org/entry/132890
OPA1	3q29	https://www.omim.org/entry/605290
OPA3	19q13.32	https://www.omim.org/entry/606580
PCDH15	10q21.1	https://www.omim.org/entry/605514
PROM1	4p15.32	https://www.omim.org/entry/604365
PRPF31	19q13.42	https://www.omim.org/entry/606419
PRPH2	6p21.1	https://www.omim.org/entry/179605
RDH12	14q24.1	https://www.omim.org/entry/608830
RHO	3q22.1	https://www.omim.org/entry/180380
RP1	8q11.23-q12.1	https://www.omim.org/entry/603937
RPE65	1p31.3	https://www.omim.org/entry/180069
RPGR	Xp11.4	https://www.omim.org/entry/312610
RPGRIP1	14q11.2	https://www.omim.org/entry/605446
SLC25A46	5q22.1	https://www.omim.org/entry/610826
TMEM126A	11q14.1	https://www.omim.org/entry/612988
TULP1	6p21.31	https://www.omim.org/entry/602280
UCHL1	4p13	https://www.omim.org/entry/191342
USH1C	11p15.1	https://www.omim.org/entry/605242
USH2A	1q41	https://www.omim.org/entry/608400
WFS1	4p16.1	https://www.omim.org/entry/606201
GUCY2D		
C12orf65		

Skelett- und Bindegewebe

Symbol	Location	OMIM_url
ACTA2	10q23.31	https://www.omim.org/entry/102620
ADAMTS2	5q35.3	https://www.omim.org/entry/604539
ALPL	1p36.12	https://www.omim.org/entry/171760
B3GALT6	1p36.33	https://www.omim.org/entry/615291
B4GALT7	5q35.3	https://www.omim.org/entry/604327
BMP1	8p21.3	https://www.omim.org/entry/112264
CHST14	15q15.1	https://www.omim.org/entry/608429
COL1A1	17q21.33	https://www.omim.org/entry/120150
COL1A2	7q21.3	https://www.omim.org/entry/120160
COL2A1	12q13.11	https://www.omim.org/entry/120140
COL3A1	2q32.2	https://www.omim.org/entry/120180
COL5A1	9q34.3	https://www.omim.org/entry/120215
COL5A2	2q32.2	https://www.omim.org/entry/120190
COL9A1	6q13	https://www.omim.org/entry/120210
CRTAP	3p22.3	https://www.omim.org/entry/605497
DSE	6q22.1	https://www.omim.org/entry/605942
FBN1	15q21.1	https://www.omim.org/entry/134797
FKBP10	17q21.2	https://www.omim.org/entry/607063
FKBP14	7p14.3	https://www.omim.org/entry/614505
IFITM5	11p15.5	https://www.omim.org/entry/614757
LRP5	11q13.2	https://www.omim.org/entry/603506
MYH11	16p13.11	https://www.omim.org/entry/160745
MYLK	3q21.1	https://www.omim.org/entry/600922
P3H1	1p34.2	https://www.omim.org/entry/610339
PLOD1	1p36.22	https://www.omim.org/entry/153454
PLS3	Xq23	https://www.omim.org/entry/300131
PIIB	15q22.31	https://www.omim.org/entry/123841
PRDM5	4q27	https://www.omim.org/entry/614161
SERPINF1	17p13.3	https://www.omim.org/entry/172860
SERPINH1	11q13.5	https://www.omim.org/entry/600943
SMAD3	15q22.33	https://www.omim.org/entry/603109
SPARC	5q33.1	https://www.omim.org/entry/182120
TGFB2	1q41	https://www.omim.org/entry/190220
TGFBR1	9q22.33	https://www.omim.org/entry/190181
TGFBR2	3p24.1	https://www.omim.org/entry/190182
TMEM38B	9q31.2	https://www.omim.org/entry/611236
TRAPPC2	Xp22.2	https://www.omim.org/entry/300202
WNT1	12q13.12	https://www.omim.org/entry/164820
SOX9	17q24.3	https://www.omim.org/entry/608160

Individuell nach Symptomatik

Symbol	Location	OMIM_url
A2ML1	12p13.31	
A4GALT	22q13.2	https://www.omim.org/entry/607922
AAAS	12q13.13	https://www.omim.org/entry/605378
AAGAB	15q23	https://www.omim.org/entry/614888
AARS1	16q22.1	https://www.omim.org/entry/601065
AARS2	6p21.1	https://www.omim.org/entry/612035
AASS	7q31.32	https://www.omim.org/entry/605113
ABAT	16p13.2	https://www.omim.org/entry/137150
ABCA1	9q31.1	https://www.omim.org/entry/600046
ABCA12	2q35	https://www.omim.org/entry/607800
ABCA13	7p12.3	
ABCA2	9q34.3	https://www.omim.org/entry/600047
ABCA3	16p13.3	https://www.omim.org/entry/601615
ABCA5	17q24.3	
ABCA7	19p13.3	
ABCB1	7q21.12	https://www.omim.org/entry/171050
ABCB11	2q31.1	https://www.omim.org/entry/603201
ABCB4	7q21.12	https://www.omim.org/entry/171060
ABCB6	2q35	https://www.omim.org/entry/605452
ABCB7	Xq13.3	https://www.omim.org/entry/300135
ABCC2	10q24.2	https://www.omim.org/entry/601107
ABCC6	16p13.11	https://www.omim.org/entry/603234
ABCC8	11p15.1	https://www.omim.org/entry/600509
ABCC9	12p12.1	https://www.omim.org/entry/601439
ABCD1	Xq28	https://www.omim.org/entry/300371
ABCD4	14q24.3	https://www.omim.org/entry/603214
ABCG5	2p21	https://www.omim.org/entry/605459
ABCG8	2p21	https://www.omim.org/entry/605460
ABHD12	20p11.21	https://www.omim.org/entry/613599
ABHD16A	6p21.33	https://www.omim.org/entry/142620
ABHD5	3p21.33	https://www.omim.org/entry/604780
ABL1	9q34.12	https://www.omim.org/entry/189980
ABO	9q34.2	
ACACA	17q12	https://www.omim.org/entry/200350
ACAD8	11q25	https://www.omim.org/entry/604773
ACAD9	3q21.3	https://www.omim.org/entry/611103
ACADM	1p31.1	https://www.omim.org/entry/607008
ACADS	12q24.31	https://www.omim.org/entry/606885
ACADSB	10q26.13	https://www.omim.org/entry/600301
ACADVL	17p13.1	https://www.omim.org/entry/609575
ACAN	15q26.1	https://www.omim.org/entry/155760
ACAT1	11q22.3	https://www.omim.org/entry/607809
ACBD5	10p12.1	https://www.omim.org/entry/616618
ACBD6	1q25.2-q25.3	https://www.omim.org/entry/616352
ACD	16q22.1	
ACE	17q23.3	https://www.omim.org/entry/106180
ACE2	Xp22.2	
ACER3	11q13.5	

ACOX1	17q25.1	https://www.omim.org/entry/609751
ACOX2	3p14.3	https://www.omim.org/entry/601641
ACP4	19q13.33	https://www.omim.org/entry/606362
ACP5	19p13.2	https://www.omim.org/entry/171640
ACSF3	16q24.3	https://www.omim.org/entry/614245
ACSL4	Xq23	https://www.omim.org/entry/300157
ACTA1	1q42.13	https://www.omim.org/entry/102610
ACTB	7p22.1	https://www.omim.org/entry/102630
ACTC1	15q14	https://www.omim.org/entry/102540
ACTG1	17q25.3	https://www.omim.org/entry/102560
ACTG2	2p13.1	https://www.omim.org/entry/102545
ACTL6A	3q26.33	
ACTL6B	7q22.1	https://www.omim.org/entry/612458
ACTL7A	9q31.3	https://www.omim.org/entry/604303
ACTL9	19p13.2	https://www.omim.org/entry/619251
ACTN1	14q24.1	https://www.omim.org/entry/102575
ACTN2	1q43	https://www.omim.org/entry/102573
ACTN4	19q13.2	https://www.omim.org/entry/604638
ACVR1	2q24.1	https://www.omim.org/entry/102576
ACVR1B	12q13.13	https://www.omim.org/entry/601300
ACVR2B	3p22.2	https://www.omim.org/entry/602730
ACVRL1	12q13.13	https://www.omim.org/entry/601284
ACY1	3p21.2	https://www.omim.org/entry/104620
ADA	20q13.12	https://www.omim.org/entry/608958
ADA2	22q11.1	https://www.omim.org/entry/607575
ADAM10	15q21.3	https://www.omim.org/entry/602192
ADAM17	2p25.1	
ADAM22	7q21.12	https://www.omim.org/entry/603709
ADAM9	8p11.22	https://www.omim.org/entry/602713
ADAMTS10	19p13.2	https://www.omim.org/entry/608990
ADAMTS13	9q34.2	https://www.omim.org/entry/604134
ADAMTS15	11q24.3	https://www.omim.org/entry/607509
ADAMTS17	15q26.3	https://www.omim.org/entry/607511
ADAMTS18	16q23.1	https://www.omim.org/entry/607512
ADAMTS19	5q23.3	https://www.omim.org/entry/607513
ADAMTS3	4q13.3	https://www.omim.org/entry/605011
ADAMTS9	3p14.1	
ADAMTSL2	9q34.2	https://www.omim.org/entry/612277
ADAMTSL4	1q21.2	https://www.omim.org/entry/610113
ADAR	1q21.3	https://www.omim.org/entry/146920
ADARB1	21q22.3	https://www.omim.org/entry/601218
ADAT3	19p13.3	https://www.omim.org/entry/615302
ADCY10	1q24.2	
ADCY3	2p23.3	
ADCY5	3q21.1	https://www.omim.org/entry/600293
ADCY6	12q13.12	https://www.omim.org/entry/600294
ADD1	4p16.3	
ADD3	10q25.1-q25.2	https://www.omim.org/entry/601568
ADGRE2	19p13.12	https://www.omim.org/entry/606100
ADGRG1	16q21	https://www.omim.org/entry/604110

ADGRG2	Xp22.13	https://www.omim.org/entry/300572
ADGRG6	6q24.2	https://www.omim.org/entry/612243
ADGRL1	19p13.12	https://www.omim.org/entry/616416
ADGRV1	5q14.3	https://www.omim.org/entry/602851
ADH5	4q23	https://www.omim.org/entry/103710
ADIPOQ	3q27.3	https://www.omim.org/entry/605441
ADIPOR1	1q32.1	
ADK	10q22.2	https://www.omim.org/entry/102750
ADNP	20q13.13	https://www.omim.org/entry/611386
ADORA2A	22q11.23	
ADPRS	1p34.3	https://www.omim.org/entry/610624
ADRB2	5q32	https://www.omim.org/entry/109690
ADSL	22q13.1	https://www.omim.org/entry/608222
ADSS1	14q32.33	https://www.omim.org/entry/612498
AEBP1	7p13	https://www.omim.org/entry/602981
AFF2	Xq28	https://www.omim.org/entry/300806
AFF3	2q11.2	https://www.omim.org/entry/601464
AFF4	5q31.1	https://www.omim.org/entry/604417
AFG2A	4q28.1	https://www.omim.org/entry/613940
AFG2B	15q21.1	https://www.omim.org/entry/619578
AFG3L2	18p11.21	https://www.omim.org/entry/604581
AFP	4q13.3	https://www.omim.org/entry/104150
AGA	4q34.3	https://www.omim.org/entry/613228
AGAP1	2q37.2	
AGBL1	15q25.3	https://www.omim.org/entry/615496
AGBL5	2p23.3	https://www.omim.org/entry/615900
AGK	7q34	https://www.omim.org/entry/610345
AGL	1p21.2	https://www.omim.org/entry/610860
AGMO	7p21.2	
AGO1	1p34.3	https://www.omim.org/entry/606228
AGO2	8q24.3	https://www.omim.org/entry/606229
AGPAT2	9q34.3	https://www.omim.org/entry/603100
AGPS	2q31.2	https://www.omim.org/entry/603051
AGR2	7p21.1	https://www.omim.org/entry/606358
AGRN	1p36.33	https://www.omim.org/entry/103320
AGT	1q42.2	https://www.omim.org/entry/106150
AGTPBP1	9q21.33	https://www.omim.org/entry/606830
AGTR1	3q24	https://www.omim.org/entry/106165
AGXT	2q37.3	https://www.omim.org/entry/604285
AHCY	20q11.22	https://www.omim.org/entry/180960
AHDC1	1p36.11-p35.3	https://www.omim.org/entry/615790
AHI1	6q23.3	https://www.omim.org/entry/608894
AHR	7p21.1	https://www.omim.org/entry/600253
AICDA	12p13.31	https://www.omim.org/entry/605257
AIFM1	Xq26.1	https://www.omim.org/entry/300169
AIM2	1q23.1-q23.2	
AIMP1	4q24	https://www.omim.org/entry/603605
AIMP2	7p22.1	https://www.omim.org/entry/600859
AIP	11q13.2	https://www.omim.org/entry/605555
AIRE	21q22.3	https://www.omim.org/entry/607358

AJAP1	1p36.32	
AK1	9q34.11	https://www.omim.org/entry/103000
AK2	1p35.1	https://www.omim.org/entry/103020
AK9	6q21	https://www.omim.org/entry/615358
AKAP3	12p13.32	https://www.omim.org/entry/604689
AKAP9	7q21.2	
AKR1C2	10p15.1	https://www.omim.org/entry/600450
AKR1D1	7q33	https://www.omim.org/entry/604741
AKT1	14q32.33	https://www.omim.org/entry/164730
AKT2	19q13.2	https://www.omim.org/entry/164731
AKT3	1q43-q44	https://www.omim.org/entry/611223
ALAD	9q32	https://www.omim.org/entry/125270
ALAS2	Xp11.21	https://www.omim.org/entry/301300
ALB	4q13.3	https://www.omim.org/entry/103600
ALDH18A1	10q24.1	https://www.omim.org/entry/138250
ALDH1A2	15q21.3	https://www.omim.org/entry/603687
ALDH1A3	15q26.3	https://www.omim.org/entry/600463
ALDH2	12q24.12	https://www.omim.org/entry/100650
ALDH3A2	17p11.2	https://www.omim.org/entry/609523
ALDH4A1	1p36.13	https://www.omim.org/entry/606811
ALDH5A1	6p22.3	https://www.omim.org/entry/610045
ALDH6A1	14q24.3	https://www.omim.org/entry/603178
ALDH7A1	5q23.2	https://www.omim.org/entry/107323
ALDOA	16p11.2	https://www.omim.org/entry/103850
ALDOB	9q31.1	https://www.omim.org/entry/612724
ALG1	16p13.3	https://www.omim.org/entry/605907
ALG11	13q14.3	https://www.omim.org/entry/613666
ALG12	22q13.33	https://www.omim.org/entry/607144
ALG13	Xq23	https://www.omim.org/entry/300776
ALG14	1p21.3	https://www.omim.org/entry/612866
ALG2	9q22.33	https://www.omim.org/entry/607905
ALG3	3q27.1	https://www.omim.org/entry/608750
ALG5	13q13.3	https://www.omim.org/entry/604565
ALG6	1p31.3	https://www.omim.org/entry/604566
ALG8	11q14.1	https://www.omim.org/entry/608103
ALG9	11q23.1	https://www.omim.org/entry/606941
ALK	2p23.2-p23.1	
ALKBH8	11q22.3	https://www.omim.org/entry/613306
ALMS1	2p13.1	https://www.omim.org/entry/606844
ALOX12B	17p13.1	https://www.omim.org/entry/603741
ALOXE3	17p13.1	https://www.omim.org/entry/607206
ALPI	2q37.1	
ALPK1	4q25	https://www.omim.org/entry/607347
ALPK3	15q25.3	https://www.omim.org/entry/617608
ALS2	2q33.1	https://www.omim.org/entry/606352
ALX1	12q21.31	https://www.omim.org/entry/601527
ALX3	1p13.3	https://www.omim.org/entry/606014
ALX4	11p11.2	https://www.omim.org/entry/605420
AMACR	5p13.2	https://www.omim.org/entry/604489
AMBN	4q13.3	https://www.omim.org/entry/601259

AMBRA1	11p11.2	
AMELX	Xp22.2	https://www.omim.org/entry/300391
AMER1	Xq11.2	https://www.omim.org/entry/300647
AMFR	16q13	https://www.omim.org/entry/603243
AMH	19p13.3	https://www.omim.org/entry/600957
AMHR2	12q13.13	https://www.omim.org/entry/600956
AMMECR1	Xq23	https://www.omim.org/entry/300195
AMN	14q32.32	https://www.omim.org/entry/605799
AMOTL1	11q21	
AMPD1	1p13.2	https://www.omim.org/entry/102770
AMPD2	1p13.3	https://www.omim.org/entry/102771
AMPD3	11p15.4	
AMT	3p21.31	https://www.omim.org/entry/238310
ANAPC1	2q13	https://www.omim.org/entry/608473
ANAPC7	12q24.11	https://www.omim.org/entry/606949
ANG	14q11.2	https://www.omim.org/entry/105850
ANGPT2	8p23.1	https://www.omim.org/entry/601922
ANGPTL3	1p31.3	https://www.omim.org/entry/604774
ANGPTL4	19p13.2	https://www.omim.org/entry/605910
ANGPTL6	19p13.2	
ANK1	8p11.21	https://www.omim.org/entry/612641
ANK2	4q25-q26	https://www.omim.org/entry/106410
ANK3	10q21.2	https://www.omim.org/entry/600465
ANKH	5p15.2	https://www.omim.org/entry/605145
ANKLE2	12q24.33	https://www.omim.org/entry/616062
ANKRD1	10q23.31	
ANKRD11	16q24.3	https://www.omim.org/entry/611192
ANKRD17	4q13.3	https://www.omim.org/entry/615929
ANKRD26	10p12.1	https://www.omim.org/entry/610855
ANKRD31	5q13.3	
ANKS1B	12q23.1	
ANKS6	9q22.33	https://www.omim.org/entry/615370
ANKZF1	2q35	
ANLN	7p14.2	https://www.omim.org/entry/616027
ANO1	11q13.3	https://www.omim.org/entry/610108
ANO10	3p22.1-p21.3:	https://www.omim.org/entry/613726
ANO3	11p14.2	https://www.omim.org/entry/610110
ANO4	12q23.1	
ANO5	11p14.3	https://www.omim.org/entry/608662
ANO6	12q12	https://www.omim.org/entry/608663
ANTXR2	4q21.21	https://www.omim.org/entry/608041
ANXA11	10q22.3	https://www.omim.org/entry/602572
AOPEP	9q22.32	https://www.omim.org/entry/619600
AP1B1	22q12.2	https://www.omim.org/entry/600157
AP1G1	16q22.2	https://www.omim.org/entry/603533
AP1S1	7q22.1	https://www.omim.org/entry/603531
AP1S2	Xp22.2	https://www.omim.org/entry/300629
AP1S3	2q36.1	
AP2M1	3q27.1	https://www.omim.org/entry/601024
AP2S1	19q13.32	https://www.omim.org/entry/602242

AP3B1	5q14.1	https://www.omim.org/entry/603401
AP3B2	15q25.2	https://www.omim.org/entry/602166
AP3D1	19p13.3	
AP4B1	1p13.2	https://www.omim.org/entry/607245
AP4E1	15q21.2	https://www.omim.org/entry/607244
AP4M1	7q22.1	https://www.omim.org/entry/602296
AP4S1	14q12	https://www.omim.org/entry/607243
AP5Z1	7p22.1	https://www.omim.org/entry/613653
APC2	19p13.3	https://www.omim.org/entry/612034
APCDD1	18p11.22	https://www.omim.org/entry/607479
APEX1	14q11.2	
APOA1	11q23.3	https://www.omim.org/entry/107680
APOA2	1q23.3	https://www.omim.org/entry/107670
APOA4	11q23.3	
APOA5	11q23.3	https://www.omim.org/entry/606368
APOB	2p24.1	https://www.omim.org/entry/107730
APOC2	19q13.32	https://www.omim.org/entry/608083
APOC3	11q23.3	https://www.omim.org/entry/107720
APOE	19q13.32	https://www.omim.org/entry/107741
APOL1	22q12.3	
APP	21q21.3	https://www.omim.org/entry/104760
APPL1	3p14.3	
APRT	16q24.3	https://www.omim.org/entry/102600
APTX	9p21.1	https://www.omim.org/entry/606350
AQP1	7p14.3	
AQP2	12q13.12	https://www.omim.org/entry/107777
AQP5	12q13.12	https://www.omim.org/entry/600442
ARCN1	11q23.3	https://www.omim.org/entry/600820
ARF1	1q42.13	https://www.omim.org/entry/103180
ARF3	12q13.12	
ARFGEF1	8q13.2	https://www.omim.org/entry/604141
ARFGEF2	20q13.13	https://www.omim.org/entry/605371
ARFGEF3	6q23.3-q24.1	
ARG1	6q23.2	https://www.omim.org/entry/608313
ARHGAP26	5q31.3	https://www.omim.org/entry/605370
ARHGAP29	1p22.1	
ARHGAP31	3q13.32-q13.3	https://www.omim.org/entry/610911
ARHGAP32	11q24.3	
ARHGAP35	19q13.32	
ARHGDIA	17q25.3	https://www.omim.org/entry/601925
ARHGEF1	19q13.2	
ARHGEF10	8p23.3	
ARHGEF18	19p13.2	https://www.omim.org/entry/616432
ARHGEF28	5q13.2	
ARHGEF9	Xq11.1	https://www.omim.org/entry/300429
ARID1A	1p36.11	https://www.omim.org/entry/603024
ARID1B	6q25.3	https://www.omim.org/entry/614556
ARID2	12q12	https://www.omim.org/entry/609539
ARIH1	15q24.1	
ARL11	13q14.2	

ARL13B	3q11.1-q11.2	https://www.omim.org/entry/608922
ARL2BP	16q13	https://www.omim.org/entry/615407
ARL3	10q24.32	https://www.omim.org/entry/604695
ARL6	3q11.2	https://www.omim.org/entry/608845
ARL6IP1	16p12.3	https://www.omim.org/entry/607669
ARMC12	6p21.31	https://www.omim.org/entry/620377
ARMC2	6q21	https://www.omim.org/entry/618424
ARMC5	16p11.2	
ARMC9	2q37.1	https://www.omim.org/entry/617612
ARPC1B	7q22.1	https://www.omim.org/entry/604223
ARPC4	3p25.3	https://www.omim.org/entry/604226
ARPC5	1q25.3	https://www.omim.org/entry/604227
ARR3	Xq13.1	https://www.omim.org/entry/301770
ARSA	22q13.33	https://www.omim.org/entry/607574
ARSB	5q14.1	https://www.omim.org/entry/611542
ARSG	17q24.2	https://www.omim.org/entry/610008
ARSK	5q15	https://www.omim.org/entry/610011
ARSL	Xp22.33	https://www.omim.org/entry/300180
ARV1	1q42.2	https://www.omim.org/entry/611647
ARX	Xp21.3	https://www.omim.org/entry/300382
ASAH1	8p22	https://www.omim.org/entry/613468
ASB10	7q36.1	https://www.omim.org/entry/615054
ASCC1	10q22.1	https://www.omim.org/entry/614215
ASCC3	6q16.3	https://www.omim.org/entry/614217
ASH1L	1q22	https://www.omim.org/entry/607999
ASL	7q11.21	https://www.omim.org/entry/608310
ASMT	Xp22.3 and Yp11.3	
ASNS	7q21.3	https://www.omim.org/entry/108370
ASPA	17p13.2	https://www.omim.org/entry/608034
ASPH	8q12.3	https://www.omim.org/entry/600582
ASPM	1q31.3	https://www.omim.org/entry/605481
ASPRV1	2p13.3	https://www.omim.org/entry/611765
ASPSR1	17q25.3	https://www.omim.org/entry/606236
ASS1	9q34.11	https://www.omim.org/entry/603470
ASTN1	1q25.2	
ASXL1	20q11.21	https://www.omim.org/entry/612990
ASXL2	2p23.3	https://www.omim.org/entry/612991
ASXL3	18q12.1	https://www.omim.org/entry/615115
ATAD1	10q23.31	https://www.omim.org/entry/614452
ATAD3A	1p36.33	https://www.omim.org/entry/612316
ATCAY	19p13.3	https://www.omim.org/entry/608179
ATF6	1q23.3	https://www.omim.org/entry/605537
ATG4D	19p13.2	
ATG7	3p25.3	https://www.omim.org/entry/608760
ATIC	2q35	https://www.omim.org/entry/601731
ATL1	14q22.1	https://www.omim.org/entry/606439
ATL3	11q13.1	https://www.omim.org/entry/609369
ATN1	12p13.31	https://www.omim.org/entry/607462
ATOH7	10q21.3	https://www.omim.org/entry/609875
ATP10B	5q34	

ATP11A	13q34	https://www.omim.org/entry/605868
ATP13A2	1p36.13	https://www.omim.org/entry/610513
ATP13A3	3q29	https://www.omim.org/entry/610232
ATP1A1	1p13.1	https://www.omim.org/entry/182310
ATP1A2	1q23.2	https://www.omim.org/entry/182340
ATP2A1	16p11.2	https://www.omim.org/entry/108730
ATP2A2	12q24.11	https://www.omim.org/entry/108740
ATP2A3	17p13.2	
ATP2B1	12q21.33	https://www.omim.org/entry/108731
ATP2B2	3p25.3	https://www.omim.org/entry/108733
ATP2B3	Xq28	
ATP2C1	3q22.1	https://www.omim.org/entry/604384
ATP5F1A	18q21.1	https://www.omim.org/entry/164360
ATP5F1D	19p13.3	https://www.omim.org/entry/603150
ATP5F1E	20q13.32	https://www.omim.org/entry/606153
ATP5MC3	2q31.1	https://www.omim.org/entry/602736
ATP5MK	10q24.33	https://www.omim.org/entry/615204
ATP5PO	21q22.11	https://www.omim.org/entry/600828
ATP6AP1	Xq28	https://www.omim.org/entry/300197
ATP6AP2	Xp11.4	https://www.omim.org/entry/300556
ATP6V0A1	17q21.2	https://www.omim.org/entry/192130
ATP6V0A2	12q24.31	https://www.omim.org/entry/611716
ATP6V0A4	7q34	https://www.omim.org/entry/605239
ATP6V0C	16p13.3	https://www.omim.org/entry/108745
ATP6V1A	3q13.31	https://www.omim.org/entry/607027
ATP6V1B1	2p13.3	https://www.omim.org/entry/192132
ATP6V1B2	8p21.3	https://www.omim.org/entry/606939
ATP6V1E1	22q11.21	https://www.omim.org/entry/108746
ATP7A	Xq21.1	https://www.omim.org/entry/300011
ATP7B	13q14.3	https://www.omim.org/entry/606882
ATP8A2	13q12.13	https://www.omim.org/entry/605870
ATP8B1	18q21.31	https://www.omim.org/entry/602397
ATP9A	20q13.2	https://www.omim.org/entry/609126
ATPAF2	17p11.2	
ATR	3q23	https://www.omim.org/entry/601215
ATRX	Xq21.1	https://www.omim.org/entry/300032
ATXN1	6p22.3	https://www.omim.org/entry/601556
ATXN10	22q13.31	https://www.omim.org/entry/611150
ATXN2	12q24.12	https://www.omim.org/entry/601517
ATXN3	14q32.12	https://www.omim.org/entry/607047
ATXN7	3p14.1	https://www.omim.org/entry/607640
ATXN7L3	17q21.31	
ATXN8OS	13q21.33	https://www.omim.org/entry/603680
AUH	9q22.31	https://www.omim.org/entry/600529
AURKC	19q13.43	https://www.omim.org/entry/603495
AUTS2	7q11.22	https://www.omim.org/entry/607270
AVIL	12q14.1	https://www.omim.org/entry/613397
AVP	20p13	https://www.omim.org/entry/192340
AVPR2	Xq28	https://www.omim.org/entry/300538
AXIN1	16p13.3	https://www.omim.org/entry/603816

AXIN2	17q24.1	https://www.omim.org/entry/604025
AXL	19q13.2	
B2M	15q21.1	https://www.omim.org/entry/109700
B3GALNT1	3q26.1	
B3GALNT2	1q42.3	https://www.omim.org/entry/610194
B3GAT3	11q12.3	https://www.omim.org/entry/606374
B3GLCT	13q12.3	https://www.omim.org/entry/610308
B4GALNT1	12q13.3	https://www.omim.org/entry/601873
B4GALNT2	17q21.32	https://www.omim.org/entry/111730
B4GALT1	9p21.1	https://www.omim.org/entry/137060
B4GAT1	11q13.2	https://www.omim.org/entry/605517
B9D1	17p11.2	https://www.omim.org/entry/614144
B9D2	19q13.2	https://www.omim.org/entry/611951
BAAT	9q31.1	https://www.omim.org/entry/602938
BACH2	6q15	https://www.omim.org/entry/605394
BAG3	10q26.11	https://www.omim.org/entry/603883
BAG5	14q32.33	https://www.omim.org/entry/603885
BANF1	11q13.1	https://www.omim.org/entry/603811
BAP1	3p21.1	https://www.omim.org/entry/603089
BARD1	2q35	
BAX	19q13.33	https://www.omim.org/entry/600040
BAZ2B	2q24.2	
BBIP1	10q25.2	https://www.omim.org/entry/613605
BBS1	11q13.2	https://www.omim.org/entry/209901
BBS10	12q21.2	https://www.omim.org/entry/610148
BBS12	4q27	https://www.omim.org/entry/610683
BBS2	16q13	https://www.omim.org/entry/606151
BBS4	15q24.1	https://www.omim.org/entry/600374
BBS5	2q31.1	https://www.omim.org/entry/603650
BBS7	4q27	https://www.omim.org/entry/607590
BBS9	7p14.3	https://www.omim.org/entry/607968
BCAP31	Xq28	https://www.omim.org/entry/300398
BCAS3	17q23.2	https://www.omim.org/entry/607470
BCAT2	19q13.33	https://www.omim.org/entry/113530
BCHE	3q26.1	https://www.omim.org/entry/177400
BCKDHA	19q13.2	https://www.omim.org/entry/608348
BCKDHB	6q14.1	https://www.omim.org/entry/248611
BCKDK	16p11.2	https://www.omim.org/entry/614901
BCL10	1p22.3	https://www.omim.org/entry/603517
BCL11A	2p16.1	https://www.omim.org/entry/606557
BCL11B	14q32.2	https://www.omim.org/entry/606558
BCL2	18q21.33	https://www.omim.org/entry/151430
BCL6	3q27.3	
BCOR	Xp11.4	https://www.omim.org/entry/300485
BCORL1	Xq26.1	https://www.omim.org/entry/300688
BCR	22q11.23	
BCS1L	2q35	https://www.omim.org/entry/603647
BEAN1	16q21	https://www.omim.org/entry/612051
BET1	7q21.3	https://www.omim.org/entry/605456
BFSP1	20p12.1	https://www.omim.org/entry/603307

BFSP2	3q22.1	https://www.omim.org/entry/603212
BGN	Xq28	https://www.omim.org/entry/301870
BHLHA9	17p13.3	https://www.omim.org/entry/615416
BHLHE22	8q12.3	
BICC1	10q21.1	
BICD2	9q22.31	https://www.omim.org/entry/609797
BICRA	19q13.33	https://www.omim.org/entry/605690
BIN1	2q14.3	https://www.omim.org/entry/601248
BIRC3	11q22.2	
BLK	8p23.1	https://www.omim.org/entry/191305
BLM	15q26.1	https://www.omim.org/entry/604610
BLNK	10q24.1	
BLOC1S1	12q13.2	
BLOC1S3	19q13.32	https://www.omim.org/entry/609762
BLOC1S5	6p24.3	https://www.omim.org/entry/607289
BLOC1S6	15q21.1	https://www.omim.org/entry/604310
BLTP1	4q27	https://www.omim.org/entry/611565
BLVRA	7p13	https://www.omim.org/entry/109750
BMP2	20p12.3	https://www.omim.org/entry/112261
BMP4	14q22.2	https://www.omim.org/entry/112262
BMP6	6p24.3	
BMP7	20q13.31	
BMPER	7p14.3	https://www.omim.org/entry/608699
BMPR1A	10q23.2	https://www.omim.org/entry/601299
BMPR1B	4q22.3	https://www.omim.org/entry/603248
BMPR2	2q33.1-q33.2	https://www.omim.org/entry/600799
BNC1	15q25.2	
BNC2	9p22.3-p22.2	https://www.omim.org/entry/608669
BOD1	5q35.2	
BOLA3	2p13.1	https://www.omim.org/entry/613183
BORCS8	19p13.11	https://www.omim.org/entry/616601
BPGM	7q33	https://www.omim.org/entry/613896
BPNT2	8q12.1	https://www.omim.org/entry/614010
BPTF	17q24.2	https://www.omim.org/entry/601819
BRAF	7q34	https://www.omim.org/entry/164757
BRAT1	7p22.3	https://www.omim.org/entry/614506
BRD4	19p13.12	https://www.omim.org/entry/608749
BRF1	14q32.33	https://www.omim.org/entry/604902
BRIP1	17q23.2	https://www.omim.org/entry/605882
BRPF1	3p25.3	https://www.omim.org/entry/602410
BRSK2	11p15.5	
BRWD1	21q22.2	https://www.omim.org/entry/617824
BRWD3	Xq21.1	https://www.omim.org/entry/300553
BSCL2	11q12.3	https://www.omim.org/entry/606158
BSN	3p21.31	
BSND	1p32.3	https://www.omim.org/entry/606412
BTD	3p25.1	https://www.omim.org/entry/609019
BTG4	11q23.1	https://www.omim.org/entry/605673
BTK	Xq22.1	https://www.omim.org/entry/300300
BTLA	3q13.2	

BUB1	2q13	https://www.omim.org/entry/602452
BUB1B	15q15.1	https://www.omim.org/entry/602860
BUB3	10q26.13	
BUD13	11q23.3	
BVES	6q21	
C10orf71	10q11.23	
C12orf57	12p13.31	https://www.omim.org/entry/615140
C14orf39	14q23.1	https://www.omim.org/entry/617307
C19orf12	19q12	https://www.omim.org/entry/614297
C1GALT1C1	Xq24	https://www.omim.org/entry/300611
C1QA	1p36.12	https://www.omim.org/entry/120550
C1QB	1p36.12	https://www.omim.org/entry/120570
C1QBP	17p13.2	https://www.omim.org/entry/601269
C1QC	1p36.12	https://www.omim.org/entry/120575
C1QTNF5	11q23.3	https://www.omim.org/entry/608752
C1R	12p13.31	https://www.omim.org/entry/613785
C1S	12p13.31	https://www.omim.org/entry/120580
C2	6p21.33	https://www.omim.org/entry/613927
C2CD3	11q13.4	https://www.omim.org/entry/615944
C2orf69	2q33.1	https://www.omim.org/entry/619219
C3	19p13.3	https://www.omim.org/entry/120700
C3orf52	3q13.2	https://www.omim.org/entry/611956
C4A	6p21.33	https://www.omim.org/entry/120810
C4B	6p21.33	https://www.omim.org/entry/120820
C5	9q33.2	https://www.omim.org/entry/120900
C6	5p13.1	https://www.omim.org/entry/217050
C7	5p13.1	https://www.omim.org/entry/217070
C8A	1p32.2	https://www.omim.org/entry/120950
C8B	1p32.2	https://www.omim.org/entry/120960
C8G	9q34.3	
C9	5p13.1	https://www.omim.org/entry/120940
C9orf72	9p21.2	https://www.omim.org/entry/614260
CA12	15q22.2	https://www.omim.org/entry/603263
CA2	8q21.2	https://www.omim.org/entry/611492
CA4	17q23.1	
CA5A	16q24.2	https://www.omim.org/entry/114761
CA8	8q12.1	https://www.omim.org/entry/114815
CABIN1	22q11.23	
CABP2	11q13.2	https://www.omim.org/entry/607314
CABP4	11q13.2	https://www.omim.org/entry/608965
CACHD1	1p31.3	
CACNA1A	19p13.13	https://www.omim.org/entry/601011
CACNA1B	9q34.3	https://www.omim.org/entry/601012
CACNA1C	12p13.33	https://www.omim.org/entry/114205
CACNA1D	3p21.1	https://www.omim.org/entry/114206
CACNA1E	1q25.3	https://www.omim.org/entry/601013
CACNA1F	Xp11.23	https://www.omim.org/entry/300110
CACNA1G	17q21.33	https://www.omim.org/entry/604065
CACNA1H	16p13.3	https://www.omim.org/entry/607904
CACNA1I	22q13.1	https://www.omim.org/entry/608230

CACNA1S	1q32.1	https://www.omim.org/entry/114208
CACNA2D1	7q21.11	https://www.omim.org/entry/114204
CACNA2D2	3p21.31	https://www.omim.org/entry/607082
CACNA2D4	12p13.33	https://www.omim.org/entry/608171
CACNB2	10p12	https://www.omim.org/entry/600003
CACNB4	2q23.3	
CAD	2p23.3	https://www.omim.org/entry/114010
CADM3	1q23.2	https://www.omim.org/entry/609743
CALM1	14q32.11	https://www.omim.org/entry/114180
CALM2	2p21	https://www.omim.org/entry/114182
CALM3	19q13.32	https://www.omim.org/entry/114183
CALR	19p13.13	https://www.omim.org/entry/109091
CAMK2A	5q32	https://www.omim.org/entry/114078
CAMK2B	7p13	https://www.omim.org/entry/607707
CAMK2D	4q26	
CAMK2G	10q22.2	https://www.omim.org/entry/602123
CAMK4	5q22.1	
CAMSAP1	9q34.3	https://www.omim.org/entry/613774
CAMTA1	1p36.31-p36.1	https://www.omim.org/entry/611501
CANT1	17q25.3	https://www.omim.org/entry/613165
CAP2	6p22.3	https://www.omim.org/entry/618385
CAPN1	11q13.1	https://www.omim.org/entry/114220
CAPN10	2q37.3	
CAPN15	16p13.3	https://www.omim.org/entry/603267
CAPN3	15q15.1	https://www.omim.org/entry/114240
CAPN5	11q13.5	https://www.omim.org/entry/602537
CAPNS1	19q13.12	https://www.omim.org/entry/114170
CAPRIN1	11p13	https://www.omim.org/entry/601178
CARD11	7p22.2	https://www.omim.org/entry/607210
CARD14	17q25.3	https://www.omim.org/entry/607211
CARD9	9q34.3	https://www.omim.org/entry/607212
CARMIL2	16q22.1	https://www.omim.org/entry/610859
CARS1	11p15.4	https://www.omim.org/entry/123859
CARS2	13q34	https://www.omim.org/entry/612800
CASK	Xp11.4	https://www.omim.org/entry/300172
CASP1	11q22.3	
CASP10	2q33.1	https://www.omim.org/entry/601762
CASP14	19p13.12	https://www.omim.org/entry/605848
CASP2	7q34	https://www.omim.org/entry/600639
CASP3	4q35.1	
CASP8	2q33.1	https://www.omim.org/entry/601763
CASQ1	1q23.2	https://www.omim.org/entry/114250
CASQ2	1p13.1	https://www.omim.org/entry/114251
CASR	3q13.33-q21.1	https://www.omim.org/entry/601199
CAST	5q15	https://www.omim.org/entry/114090
CASZ1	1p36.22	
CAT	11p13	https://www.omim.org/entry/115500
CATSPER1	11q13.1	https://www.omim.org/entry/606389
CAV1	7q31.2	https://www.omim.org/entry/601047
CAV3	3p25.3	https://www.omim.org/entry/601253

CAVIN1	17q21.2	https://www.omim.org/entry/603198
CAVIN4	9q31.1	
CBFB	16q22.1	https://www.omim.org/entry/121360
CBL	11q23.3	https://www.omim.org/entry/165360
CBLB	3q13.11	https://www.omim.org/entry/604491
CBLIF	11q12.1	https://www.omim.org/entry/609342
CBS	21q22.3	https://www.omim.org/entry/613381
CBX1	17q21.32	
CBY1	22q13.1	
CC2D1A	19p13.12	https://www.omim.org/entry/610055
CC2D2A	4p15.32	https://www.omim.org/entry/612013
CCBE1	18q21.32	https://www.omim.org/entry/612753
CCDC103	17q21.31	
CCDC115	2q21.1	https://www.omim.org/entry/613734
CCDC134	22q13.2	https://www.omim.org/entry/618788
CCDC146	7q11.23	https://www.omim.org/entry/619829
CCDC174	3p25.1	https://www.omim.org/entry/616735
CCDC22	Xp11.23	https://www.omim.org/entry/300859
CCDC32	15q15.1	https://www.omim.org/entry/618941
CCDC34	11p14.1	https://www.omim.org/entry/612324
CCDC39	3q26.33	https://www.omim.org/entry/613798
CCDC40	17q25.3	https://www.omim.org/entry/613799
CCDC47	17q23.3	https://www.omim.org/entry/618260
CCDC50	3q28	
CCDC6	10q21.2	
CCDC65	12q13.12	https://www.omim.org/entry/611088
CCDC78	16p13.3	
CCDC8	19q13.32	https://www.omim.org/entry/614145
CCDC82	11q21	
CCDC88A	2p16.1	
CCDC88C	14q32.11-q32	https://www.omim.org/entry/611204
CCIN	9p13.3	https://www.omim.org/entry/603960
CCL2	17q12	
CCL5	17q12	
CCM2	7p13	https://www.omim.org/entry/607929
CCN6	6q21	https://www.omim.org/entry/603400
CCND1	11q13.3	
CCND2	12p13.32	https://www.omim.org/entry/123833
CCNF	16p13.3	https://www.omim.org/entry/600227
CCNO	5q11.2	https://www.omim.org/entry/607752
CCNQ	Xq28	https://www.omim.org/entry/300708
CCR2	3p21.31	https://www.omim.org/entry/601267
CCR5	3p21.31	
CCT5	5p15.2	
CD14	5q31.3	
CD151	11p15.5	https://www.omim.org/entry/602243
CD160	1q21.1	
CD163	12p13.31	
CD164	6q21	
CD19	16p11.2	https://www.omim.org/entry/107265

CD2	1p13.1	
CD244	1q23.3	
CD247	1q24.2	
CD27	12p13.31	https://www.omim.org/entry/186711
CD274	9p24.1	
CD28	2q33.2	
CD2AP	6p12.3	https://www.omim.org/entry/604241
CD320	19p13.2	https://www.omim.org/entry/606475
CD36	7q21.11	https://www.omim.org/entry/173510
CD38	4p15.32	
CD3D	11q23.3	https://www.omim.org/entry/186790
CD3E	11q23.3	https://www.omim.org/entry/186830
CD3G	11q23.3	https://www.omim.org/entry/186740
CD4	12p13.31	https://www.omim.org/entry/186940
CD40	20q13.12	https://www.omim.org/entry/109535
CD40LG	Xq26.3	https://www.omim.org/entry/300386
CD46	1q32.2	
CD55	1q32.2	https://www.omim.org/entry/125240
CD59	11p13	https://www.omim.org/entry/107271
CD70	19p13.3	https://www.omim.org/entry/602840
CD79A	19q13.2	https://www.omim.org/entry/112205
CD79B	17q23.3	https://www.omim.org/entry/147245
CD80	3q13.33	
CD81	11p15.5	https://www.omim.org/entry/186845
CD86	3q13.33	
CD8A	2p11.2	https://www.omim.org/entry/186910
CD8B	2p11.2	
CD96	3q13.13-q13.31	https://www.omim.org/entry/606037
CDAN1	15q15.2	https://www.omim.org/entry/607465
CDC14A	1p21.2	https://www.omim.org/entry/603504
CDC20	1p34.2	https://www.omim.org/entry/603618
CDC23	5q31.2	
CDC42	1p36.12	https://www.omim.org/entry/116952
CDC42BPB	14q32.32	https://www.omim.org/entry/614062
CDC45	22q11.21	https://www.omim.org/entry/603465
CDC6	17q21.2	
CDC73	1q31.2	https://www.omim.org/entry/607393
CDCA7	2q31.1	https://www.omim.org/entry/609937
CDCA8	1p34.3	
CDH1	16q22.1	https://www.omim.org/entry/192090
CDH11	16q21	https://www.omim.org/entry/600023
CDH15	16q24.3	https://www.omim.org/entry/114019
CDH2	18q12.1	https://www.omim.org/entry/114020
CDH3	16q22.1	https://www.omim.org/entry/114021
CDIN1	15q14	https://www.omim.org/entry/615626
CDK10	16q24.3	https://www.omim.org/entry/603464
CDK13	7p14.1	https://www.omim.org/entry/603309
CDK16	Xp11.3	
CDK19	6q21	https://www.omim.org/entry/614720
CDK4	12q14.1	

CDK5RAP2	9q33.2	https://www.omim.org/entry/608201
CDK6	7q21.2	
CDK8	13q12.13	https://www.omim.org/entry/603184
CDK9	9q34.11	
CDKL5	Xp22.13	https://www.omim.org/entry/300203
CDKN1B	12p13.1	https://www.omim.org/entry/600778
CDKN1C	11p15.4	https://www.omim.org/entry/600856
CDKN2B	9p21.3	
CDON	11q24.2	https://www.omim.org/entry/608707
CDSN	6p21.33	https://www.omim.org/entry/602593
CDT1	16q24.3	https://www.omim.org/entry/605525
CDX1	5q32	
CDX2	13q12.2	
CEACAM16	19q13.31-q13	https://www.omim.org/entry/614591
CEBPA	19q13.11	https://www.omim.org/entry/116897
CEBPE	14q11.2	https://www.omim.org/entry/600749
CEL	9q34.13	https://www.omim.org/entry/114840
CELA2A	1p36.21	https://www.omim.org/entry/609443
CELA3B	1p36.12	
CELF2	10p14	https://www.omim.org/entry/602538
CELSR1	22q13.31	https://www.omim.org/entry/604523
CELSR2	1p13.3	
CELSR3	3p21.31	
CEMIP	15q25.1	
CENPE	4q24	
CENPF	1q41	https://www.omim.org/entry/600236
CENPJ	13q12.12-q12.13	
CEP104	1p36.32	https://www.omim.org/entry/616690
CEP112	17q24.1	https://www.omim.org/entry/618980
CEP120	5q23.2	https://www.omim.org/entry/613446
CEP135	4q12	https://www.omim.org/entry/611423
CEP152	15q21.1	https://www.omim.org/entry/613529
CEP164	11q23.3	https://www.omim.org/entry/614848
CEP19	3q29	https://www.omim.org/entry/615586
CEP250	20q11.22	https://www.omim.org/entry/609689
CEP295	11q21	https://www.omim.org/entry/617728
CEP41	7q32.2	https://www.omim.org/entry/610523
CEP55	10q23.33	https://www.omim.org/entry/610000
CEP57	11q21	https://www.omim.org/entry/607951
CEP63	3q22.2	
CEP76	18p11.21	
CEP78	9q21.2	https://www.omim.org/entry/617110
CEP83	12q22	https://www.omim.org/entry/615847
CEP85L	6q22.31	https://www.omim.org/entry/618865
CERKL	2q31.3	https://www.omim.org/entry/608381
CERS1	19p13.11	https://www.omim.org/entry/606919
CERS3	15q26.3	https://www.omim.org/entry/615276
CERT1	5q13.3	https://www.omim.org/entry/604677
CES1	16q12.2	https://www.omim.org/entry/114835
CETP	16q13	https://www.omim.org/entry/118470

CFAP20	16q21	
CFAP251	12q24.31	https://www.omim.org/entry/618146
CFAP298	21q22.11	https://www.omim.org/entry/615494
CFAP300	11q22.1	https://www.omim.org/entry/618058
CFAP410	21q22.3	https://www.omim.org/entry/603191
CFAP418	8q22.1	https://www.omim.org/entry/614477
CFAP43	10q25.1	https://www.omim.org/entry/617558
CFAP44	3q13.2	https://www.omim.org/entry/617559
CFAP45	1q23.2	https://www.omim.org/entry/605152
CFAP47	Xp21.1	https://www.omim.org/entry/301057
CFAP52	17p13.1	https://www.omim.org/entry/609804
CFAP53	18q21.1	https://www.omim.org/entry/614759
CFAP57	1p34.2	https://www.omim.org/entry/614259
CFAP58	10q25.1	https://www.omim.org/entry/619129
CFAP61	20p11.23	https://www.omim.org/entry/620381
CFAP65	2q35	https://www.omim.org/entry/614270
CFAP69	7q21.13	https://www.omim.org/entry/617949
CFAP74	1p36.33	https://www.omim.org/entry/620187
CFAP91	3q13.33	https://www.omim.org/entry/609910
CFB	6p21.33	
CFC1	2q21.1	https://www.omim.org/entry/605194
CFD	19p13.3	https://www.omim.org/entry/134350
CFH	1q31.3	https://www.omim.org/entry/134370
CFHR1	1q31.3	
CFHR2	1q31.3	
CFHR3	1q31.3	
CFHR4	1q31.3	
CFHR5	1q31.3	https://www.omim.org/entry/608593
CFI	4q25	https://www.omim.org/entry/217030
CFL2	14q13.1	https://www.omim.org/entry/601443
CFP	Xp11.23	https://www.omim.org/entry/300383
CFTR	7q31.2	https://www.omim.org/entry/602421
CHAMP1	13q34	https://www.omim.org/entry/616327
CHAT	10q11.23	https://www.omim.org/entry/118490
CHCHD10	22q11.23	https://www.omim.org/entry/615903
CHCHD2	7p11.2	https://www.omim.org/entry/616244
CHD1	5q15-q21.1	https://www.omim.org/entry/602118
CHD1L	1q21.1	
CHD2	15q26.1	https://www.omim.org/entry/602119
CHD3	17p13.1	https://www.omim.org/entry/602120
CHD4	12p13.31	https://www.omim.org/entry/603277
CHD5	1p36.31	https://www.omim.org/entry/610771
CHD8	14q11.2	https://www.omim.org/entry/610528
CHEK1	11q24.2	https://www.omim.org/entry/603078
CHKA	11q13.2	https://www.omim.org/entry/118491
CHKB	22q13.33	https://www.omim.org/entry/612395
CHM	Xq21.2	https://www.omim.org/entry/300390
CHMP1A	16q24.3	https://www.omim.org/entry/164010
CHMP2B	3p11.2	https://www.omim.org/entry/609512
CHMP4B	20q11.22	https://www.omim.org/entry/610897

CHN1	2q31.1	https://www.omim.org/entry/118423
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CHRD1	Xq23	https://www.omim.org/entry/300350
CHRM3	1q43	https://www.omim.org/entry/118494
CHRNA1	2q31.1	https://www.omim.org/entry/100690
CHRNA2	8p21.2	https://www.omim.org/entry/118502
CHRNA3	15q25.1	https://www.omim.org/entry/118503
CHRNA4	20q13.33	https://www.omim.org/entry/118504
CHRNA5	17p13.1	https://www.omim.org/entry/100710
CHRNA6	1q21.3	https://www.omim.org/entry/118507
CHRNA7	2q37.1	https://www.omim.org/entry/100720
CHRNA8	17p13.2	https://www.omim.org/entry/100725
CHRNA9	2q37.1	https://www.omim.org/entry/100730
CHST3	10q22.1	https://www.omim.org/entry/603799
CHST6	16q23.1	https://www.omim.org/entry/605294
CHSY1	15q26.3	https://www.omim.org/entry/608183
CHUK	10q24.31	
CIAO1	2q11.2	https://www.omim.org/entry/604333
CIB1	15q26.1	
CIB2	15q25.1	https://www.omim.org/entry/605564
CIC	19q13.2	https://www.omim.org/entry/612082
CIITA	16p13.13	https://www.omim.org/entry/600005
CILK1	6p12.1	https://www.omim.org/entry/612325
CIROP	14q11.2	https://www.omim.org/entry/619703
CIT	12q24.23	https://www.omim.org/entry/605629
CITED2	6q24.1	https://www.omim.org/entry/602937
CKAP2L	2q14.1	https://www.omim.org/entry/616174
CLASP1	2q14.2-q14.3	
CLCC1	1p13.3	https://www.omim.org/entry/617539
CLCF1	11q13.2	https://www.omim.org/entry/607672
CLCN1	7q34	https://www.omim.org/entry/118425
CLCN2	3q27.1	https://www.omim.org/entry/600570
CLCN3	4q33	https://www.omim.org/entry/600580
CLCN4	Xp22.2	https://www.omim.org/entry/302910
CLCN5	Xp11.23	https://www.omim.org/entry/300008
CLCN6	1p36.22	https://www.omim.org/entry/602726
CLCN7	16p13.3	https://www.omim.org/entry/602727
CLCNKA	1p36.13	https://www.omim.org/entry/602024
CLCNKB	1p36.13	https://www.omim.org/entry/602023
CLDN1	3q28	https://www.omim.org/entry/603718
CLDN10	13q32.1	https://www.omim.org/entry/617579
CLDN11	3q26.2	https://www.omim.org/entry/601326
CLDN14	21q22.13	https://www.omim.org/entry/605608
CLDN16	3q28	https://www.omim.org/entry/603959
CLDN19	1p34.2	https://www.omim.org/entry/610036
CLDN5	22q11.21	
CLDN9	16p13.3	https://www.omim.org/entry/615799
CLEC16A	16p13.13	
CLEC3B	3p21.31	https://www.omim.org/entry/187520
CLEC7A	12p13.2	https://www.omim.org/entry/606264

CLMP	11q24.1	https://www.omim.org/entry/611693
CLN3	16p12.1	https://www.omim.org/entry/607042
CLN5	13q22.3	https://www.omim.org/entry/608102
CLN6	15q23	https://www.omim.org/entry/606725
CLN8	8p23.3	https://www.omim.org/entry/607837
CLP1	11q12.1	https://www.omim.org/entry/608757
CLPB	11q13.4	https://www.omim.org/entry/616254
CLRN1	3q25.1	https://www.omim.org/entry/606397
CLRN2	4p15.32	https://www.omim.org/entry/618988
CLTC	17q23.1	https://www.omim.org/entry/118955
CLU	8p21.1	
CLUAP1	16p13.3	
CLXN	8q11.21	https://www.omim.org/entry/619564
CNBP	3q21.3	https://www.omim.org/entry/116955
CNGA1	4p12	https://www.omim.org/entry/123825
CNGA3	2q11.2	https://www.omim.org/entry/600053
CNGB1	16q21	https://www.omim.org/entry/600724
CNKS1R1	1p36.11	
CNKS1R2	Xp22.12	https://www.omim.org/entry/300724
CNNM2	10q24.32	https://www.omim.org/entry/607803
CNNM4	2q11.2	https://www.omim.org/entry/607805
CNOT1	16q21	https://www.omim.org/entry/604917
CNOT2	12q15	https://www.omim.org/entry/604909
CNOT3	19q13.42	https://www.omim.org/entry/604910
CNOT9	2q35	
CNP	17q21.2	
CNPY3	6p21.1	https://www.omim.org/entry/610774
CNTN1	12q12	https://www.omim.org/entry/600016
CNTN2	1q32.1	https://www.omim.org/entry/190197
CNTNAP1	17q21.2	https://www.omim.org/entry/602346
CNTNAP2	7q35-q36.1	https://www.omim.org/entry/604569
COA5	2q11.2	
COA6	1q42.2	https://www.omim.org/entry/614772
COA7	1p32.3	https://www.omim.org/entry/615623
COA8	14q32.33	https://www.omim.org/entry/616003
COASY	17q21.2	https://www.omim.org/entry/609855
COCH	14q12	https://www.omim.org/entry/603196
COG1	17q25.1	https://www.omim.org/entry/606973
COG2	1q42.2	
COG3	13q14.13	https://www.omim.org/entry/606975
COG4	16q22.1	https://www.omim.org/entry/606976
COG5	7q22.3	https://www.omim.org/entry/606821
COG6	13q14.11	https://www.omim.org/entry/606977
COG7	16p12.2	https://www.omim.org/entry/606978
COG8	16q22.1	https://www.omim.org/entry/606979
COL10A1	6q22.1	https://www.omim.org/entry/120110
COL11A1	1p21.1	https://www.omim.org/entry/120280
COL11A2	6p21.32	https://www.omim.org/entry/120290
COL12A1	6q13-q14.1	https://www.omim.org/entry/120320
COL13A1	10q22.1	https://www.omim.org/entry/120350

COL17A1	10q25.1	https://www.omim.org/entry/113811
COL18A1	21q22.3	https://www.omim.org/entry/120328
COL25A1	4q25	https://www.omim.org/entry/610004
COL27A1	9q32	https://www.omim.org/entry/608461
COL4A1	13q34	https://www.omim.org/entry/120130
COL4A2	13q34	https://www.omim.org/entry/120090
COL4A3	2q36.3	https://www.omim.org/entry/120070
COL4A4	2q36.3	https://www.omim.org/entry/120131
COL4A5	Xq22.3	https://www.omim.org/entry/303630
COL4A6	Xq22.3	
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COL6A2	21q22.3	https://www.omim.org/entry/120240
COL6A3	2q37.3	https://www.omim.org/entry/120250
COL7A1	3p21.31	https://www.omim.org/entry/120120
COL8A2	1p34.3	https://www.omim.org/entry/120252
COL9A2	1p34.2	https://www.omim.org/entry/120260
COL9A3	20q13.33	https://www.omim.org/entry/120270
COLEC10	8q24.12	https://www.omim.org/entry/607620
COLEC11	2p25.3	https://www.omim.org/entry/612502
COLGALT1	19p13.11	https://www.omim.org/entry/617531
COLQ	3p25.1	https://www.omim.org/entry/603033
COMP	19p13.11	https://www.omim.org/entry/600310
COPA	1q23.2	
COPB1	11p15.2	https://www.omim.org/entry/600959
COPB2	3q23	https://www.omim.org/entry/606990
COQ2	4q21.23	https://www.omim.org/entry/609825
COQ4	9q34.11	https://www.omim.org/entry/612898
COQ6	14q24.3	https://www.omim.org/entry/614647
COQ7	16p12.3	https://www.omim.org/entry/601683
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COQ8B	19q13.2	https://www.omim.org/entry/615567
COQ9	16q21	https://www.omim.org/entry/612837
CORIN	4p12	https://www.omim.org/entry/605236
CORO1A	16p11.2	https://www.omim.org/entry/605000
COX10	17p12	https://www.omim.org/entry/602125
COX11	17q22	https://www.omim.org/entry/603648
COX14	12q13.12	
COX15	10q24.2	https://www.omim.org/entry/603646
COX16	14q24.2	https://www.omim.org/entry/618064
COX20	1q44	https://www.omim.org/entry/614698
COX4I1	16q24.1	https://www.omim.org/entry/123864
COX4I2	20q11.21	https://www.omim.org/entry/607976
COX5A	15q24.2	https://www.omim.org/entry/603773
COX6A1	12q24.31	https://www.omim.org/entry/602072
COX6A2	16p11.2	https://www.omim.org/entry/602009
COX6B1	19q13.12	https://www.omim.org/entry/124089
COX7B	Xq21.1	https://www.omim.org/entry/300885
CP	3q24-q25.1	https://www.omim.org/entry/117700
CPA1	7q32.2	
CPA6	8q13.2	https://www.omim.org/entry/609562

CPAMD8	19p13.11	https://www.omim.org/entry/608841
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CPLX1	4p16.3	https://www.omim.org/entry/605032
CPN1	10q24.2	https://www.omim.org/entry/603103
CPOX	3q11.2	https://www.omim.org/entry/612732
CPS1	2q34	https://www.omim.org/entry/608307
CPSF1	8q24.3	https://www.omim.org/entry/606027
CPSF3	2p25.1	https://www.omim.org/entry/606029
CPT1A	11q13.3	https://www.omim.org/entry/600528
CPT1C	19q13.33	
CPT2	1p32.3	https://www.omim.org/entry/600650
CR2	1q32.2	
CRADD	12q22	https://www.omim.org/entry/603454
CRB2	9q33.3	https://www.omim.org/entry/609720
CRBN	3p26.2	https://www.omim.org/entry/609262
CREB1	2q33.3	https://www.omim.org/entry/123810
CREB3L1	11p11.2	https://www.omim.org/entry/616215
CREB3L2	7q33	
CREB3L3	19p13.3	https://www.omim.org/entry/611998
CREBBP	16p13.3	https://www.omim.org/entry/600140
CRELD1	3p25.3	https://www.omim.org/entry/607170
CRIM1	2p22.2	
CRIPT	2p21	https://www.omim.org/entry/604594
CRLF1	19p12	https://www.omim.org/entry/604237
CRLS1	20p12.3	https://www.omim.org/entry/608188
CRNKL1	20p11.23	
CRPPA	7p21.2	https://www.omim.org/entry/614631
CRTC1	19p13.11	https://www.omim.org/entry/607536
CRY1	12q23.3	
CRYAA	21q22.3	https://www.omim.org/entry/123580
CRYAB	11q23.1	https://www.omim.org/entry/123590
CRYBA1	17q11.2	https://www.omim.org/entry/123610
CRYBA4	22q12.1	https://www.omim.org/entry/123631
CRYBB1	22q12.1	https://www.omim.org/entry/600929
CRYBB2	22q11.23	https://www.omim.org/entry/123620
CRYBB3	22q11.23	https://www.omim.org/entry/123630
CRYGB	2q33.3	https://www.omim.org/entry/123670
CRYGC	2q33.3	https://www.omim.org/entry/123680
CRYGD	2q33.3	https://www.omim.org/entry/123690
CRYGS	3q27.3	https://www.omim.org/entry/123730
CRYM	16p12.2	https://www.omim.org/entry/123740
CSDE1	1p13.2	
CSF1R	5q32	https://www.omim.org/entry/164770
CSF2RA	Xp22.32 and Y	https://www.omim.org/entry/306250
CSF2RB	22q12.3	https://www.omim.org/entry/138981
CSF3R	1p34.3	https://www.omim.org/entry/138971
CSGALNACT1	8p21.3	https://www.omim.org/entry/616615
CSMD1	8p23.2	

CSNK1D	17q25.3	https://www.omim.org/entry/600864
CSNK1G1	15q22.31	
CSNK2A1	20p13	https://www.omim.org/entry/115440
CSNK2B	6p21.33	https://www.omim.org/entry/115441
CSPP1	8q13.1-q13.2	https://www.omim.org/entry/611654
CSRP3	11p15.1	https://www.omim.org/entry/600824
CST3	20p11.21	https://www.omim.org/entry/604312
CST6	11q13.1	
CSTA	3q21.1	https://www.omim.org/entry/184600
CSTB	21q22.3	https://www.omim.org/entry/601145
CTBP1	4p16.3	https://www.omim.org/entry/602618
CTC1	17p13.1	https://www.omim.org/entry/613129
CTCF	16q22.1	https://www.omim.org/entry/604167
CTDP1	18q23	https://www.omim.org/entry/604927
CTH	1p31.1	https://www.omim.org/entry/607657
CTHRC1	8q22.3	https://www.omim.org/entry/610635
CTLA4	2q33.2	https://www.omim.org/entry/123890
CTNNA1	5q31.2	https://www.omim.org/entry/116805
CTNNA2	2p12	https://www.omim.org/entry/114025
CTNNA3	10q21.3	https://www.omim.org/entry/607667
CTNNB1	3p22.1	https://www.omim.org/entry/116806
CTNND1	11q12.1	https://www.omim.org/entry/601045
CTNND2	5p15.2	
CTNS	17p13.2	https://www.omim.org/entry/606272
CTPS1	1p34.2	https://www.omim.org/entry/123860
CTR9	11p15.4	
CTRC	1p36.21	
CTSA	20q13.12	https://www.omim.org/entry/613111
CTSC	11q14.2	https://www.omim.org/entry/602365
CTSD	11p15.5	https://www.omim.org/entry/116840
CTSF	11q13.2	https://www.omim.org/entry/603539
CTSK	1q21.3	https://www.omim.org/entry/601105
CTU2	16q24.3	https://www.omim.org/entry/617057
CUBN	10p13	https://www.omim.org/entry/602997
CUL3	2q36.2	https://www.omim.org/entry/603136
CUL4B	Xq24	https://www.omim.org/entry/300304
CUL7	6p21.1	https://www.omim.org/entry/609577
CUX1	7q22.1	https://www.omim.org/entry/116896
CUX2	12q24.11-q24	https://www.omim.org/entry/610648
CWC27	5q12.3	https://www.omim.org/entry/617170
CWF19L1	10q24.31	https://www.omim.org/entry/616120
CXCL10	4q21.1	
CXCL8	4q13.3	
CXCL9	4q21.1	
CXCR1	2q35	
CXCR2	2q35	
CXCR4	2q22.1	https://www.omim.org/entry/162643
CXCR6	3p21.31	
CYB561	17q23.3	https://www.omim.org/entry/600019
CYB5A	18q22.3	https://www.omim.org/entry/613218

CYB5R3	22q13.2	https://www.omim.org/entry/613213
CYBA	16q24.2	https://www.omim.org/entry/608508
CYBB	Xp21.1-p11.4	https://www.omim.org/entry/300481
CYBC1	17q25.3	https://www.omim.org/entry/618334
CYBRD1	2q31.1	
CYC1	8q24.3	https://www.omim.org/entry/123980
CYCS	7p15.3	https://www.omim.org/entry/123970
CYFIP2	5q33.3	https://www.omim.org/entry/606323
CYLC1	Xq21.1	
CYLD	16q12.1	https://www.omim.org/entry/605018
CYP11A1	15q24.1	https://www.omim.org/entry/118485
CYP11B1	8q24.3	https://www.omim.org/entry/610613
CYP11B2	8q24.3	https://www.omim.org/entry/124080
CYP17A1	10q24.32	https://www.omim.org/entry/609300
CYP19A1	15q21.2	https://www.omim.org/entry/107910
CYP1B1	2p22.2	https://www.omim.org/entry/601771
CYP21A2	6p21.33	https://www.omim.org/entry/613815
CYP24A1	20q13.2	https://www.omim.org/entry/126065
CYP26B1	2p13.2	https://www.omim.org/entry/605207
CYP26C1	10q23.33	https://www.omim.org/entry/608428
CYP27A1	2q35	https://www.omim.org/entry/606530
CYP27B1	12q14.1	https://www.omim.org/entry/609506
CYP2A6	19q13.2	https://www.omim.org/entry/122720
CYP2B6	19q13.2	https://www.omim.org/entry/123930
CYP2C19	10q23.33	https://www.omim.org/entry/124020
CYP2C9	10q23.33	https://www.omim.org/entry/601130
CYP2D6	22q13.2	
CYP2R1	11p15.2	https://www.omim.org/entry/608713
CYP2U1	4q25	https://www.omim.org/entry/610670
CYP3A4	7q22.1	https://www.omim.org/entry/124010
CYP3A5	7q22.1	
CYP4F2	19p13.12	
CYP4F22	19p13.12	https://www.omim.org/entry/611495
CYP4V2	4q35.1-q35.2	https://www.omim.org/entry/608614
CYP51A1	7q21.2	
CYP7B1	8q12.3	https://www.omim.org/entry/603711
D2HGDH	2q37.3	https://www.omim.org/entry/609186
DAAM2	6p21.2	https://www.omim.org/entry/606627
DAB1	1p32.2	https://www.omim.org/entry/603448
DACT1	14q23.1	https://www.omim.org/entry/607861
DAG1	3p21.31	https://www.omim.org/entry/128239
DAGLA	11q12.2	https://www.omim.org/entry/614015
DAO	12q24.11	
DARS1	2q21.3	https://www.omim.org/entry/603084
DARS2	1q25.1	https://www.omim.org/entry/610956
DAW1	2q36.3	https://www.omim.org/entry/620279
DAXX	6p21.32	
DBH	9q34.2	https://www.omim.org/entry/609312
DBR1	3q22.3	https://www.omim.org/entry/607024
DBT	1p21.2	https://www.omim.org/entry/248610

DCAF17	2q31.1	https://www.omim.org/entry/612515
DCC	18q21.2	https://www.omim.org/entry/120470
DCDC2	6p22.3	https://www.omim.org/entry/605755
DCHS1	11p15.4	https://www.omim.org/entry/603057
DCLRE1B	1p13.2	https://www.omim.org/entry/609683
DCLRE1C	10p13	https://www.omim.org/entry/605988
DCN	12q21.33	https://www.omim.org/entry/125255
DCPS	11q24.2	https://www.omim.org/entry/610534
DCT	13q32.1	https://www.omim.org/entry/191275
DCTN1	2p13.1	https://www.omim.org/entry/601143
DCX	Xq23	https://www.omim.org/entry/300121
DCXR	17q25.3	
DDB1	11q12.2	https://www.omim.org/entry/600045
DDB2	11p11.2	https://www.omim.org/entry/600811
DDC	7p12.2-p12.1	https://www.omim.org/entry/107930
DDHD1	14q22.1	https://www.omim.org/entry/614603
DDHD2	8p11.23	https://www.omim.org/entry/615003
DDIT3	12q13.3	
DDOST	1p36.12	https://www.omim.org/entry/602202
DDR2	1q23.3	https://www.omim.org/entry/191311
DDRGK1	20p13	https://www.omim.org/entry/616177
DDX11	12p11.21	https://www.omim.org/entry/601150
DDX17	22q13.1	
DDX23	12q13.12	
DDX24	14q32.12	
DDX3X	Xp11.4	https://www.omim.org/entry/300160
DDX3Y	Yq11.221	
DDX41	5q35.3	
DDX59	1q32.1	https://www.omim.org/entry/615464
DDX6	11q23.3	https://www.omim.org/entry/600326
DEAF1	11p15.5	https://www.omim.org/entry/602635
DEF6	6p21.31	https://www.omim.org/entry/610094
DEGS1	1q42.11	https://www.omim.org/entry/615843
DENND5A	11p15.4	https://www.omim.org/entry/617278
DENND5B	12p11.21	
DEPDC5	22q12.2-q12.1	https://www.omim.org/entry/614191
DES	2q35	https://www.omim.org/entry/125660
DGAT1	8q24.3	https://www.omim.org/entry/604900
DGCR8	22q11.21	
DGKE	17q22	https://www.omim.org/entry/601440
DGUOK	2p13.1	https://www.omim.org/entry/601465
DHCR24	1p32.3	https://www.omim.org/entry/606418
DHCR7	11q13.4	https://www.omim.org/entry/602858
DHDDS	1p36.11	https://www.omim.org/entry/608172
DHFR	5q14.1	https://www.omim.org/entry/126060
DHODH	16q22.2	https://www.omim.org/entry/126064
DHPS	19p13.13	https://www.omim.org/entry/600944
DHRX	Xp22.33 and Yp11.2	
DHTKD1	10p14	https://www.omim.org/entry/614984
DHX16	6p21.33	https://www.omim.org/entry/603405

DHX30	3p21.31	https://www.omim.org/entry/616423
DHX37	12q24.31	https://www.omim.org/entry/617362
DHX38	16q22.2	https://www.omim.org/entry/605584
DHX9	1q25.3	https://www.omim.org/entry/603115
DIABLO	12q24.31	https://www.omim.org/entry/605219
DIAPH1	5q31.3	https://www.omim.org/entry/602121
DIAPH3	13q21.2	https://www.omim.org/entry/614567
DICER1	14q32.13	https://www.omim.org/entry/606241
DIO1	1p32.3	https://www.omim.org/entry/147892
DIP2B	12q13.12	https://www.omim.org/entry/611379
DIP2C	10p15.3	
DIRC3	2q35	
DIS3L2	2q37.1	https://www.omim.org/entry/614184
DISC1	1q42.2	
DISP1	1q41	
DKC1	Xq28	https://www.omim.org/entry/300126
DLAT	11q23.1	https://www.omim.org/entry/608770
DLC1	8p22	https://www.omim.org/entry/604258
DLD	7q31.1	https://www.omim.org/entry/238331
DLG2	11q14.1	
DLG3	Xq13.1	https://www.omim.org/entry/300189
DLG4	17p13.1	https://www.omim.org/entry/602887
DLG5	10q22.3	https://www.omim.org/entry/604090
DLK1	14q32.2	
DLL1	6q27	https://www.omim.org/entry/606582
DLL3	19q13.2	https://www.omim.org/entry/602768
DLL4	15q15.1	https://www.omim.org/entry/605185
DLST	14q24.3	https://www.omim.org/entry/126063
DLX3	17q21.33	https://www.omim.org/entry/600525
DLX5	7q21.3	https://www.omim.org/entry/600028
DMAP1	1p34.1	
DMC1	22q13.1	
DMD	Xp21.2-p21.1	https://www.omim.org/entry/300377
DMGDH	5q14.1	https://www.omim.org/entry/605849
DMP1	4q22.1	https://www.omim.org/entry/600980
DMPK	19q13.32	https://www.omim.org/entry/605377
DMXL2	15q21.2	https://www.omim.org/entry/612186
DNA2	10q21.3	https://www.omim.org/entry/601810
DNAAF1	16q24.1	https://www.omim.org/entry/613190
DNAAF11	8q24.22	https://www.omim.org/entry/614930
DNAAF2	14q21.3	https://www.omim.org/entry/612517
DNAAF3	19q13.42	https://www.omim.org/entry/614566
DNAAF4	15q21.3	https://www.omim.org/entry/608706
DNAAF5	7p22.3	https://www.omim.org/entry/614864
DNAAF6	Xq22.3	https://www.omim.org/entry/300933
DNAH1	3p21.1	https://www.omim.org/entry/603332
DNAH10	12q24.31	https://www.omim.org/entry/605884
DNAH11	7p15.3	https://www.omim.org/entry/603339
DNAH14	1q42.12	
DNAH17	17q25.3	https://www.omim.org/entry/610063

DNAH2	17p13.1	https://www.omim.org/entry/603333
DNAH3	16p12.3	
DNAH5	5p15.2	https://www.omim.org/entry/603335
DNAH6	2p11.2	
DNAH7	2q32.3	https://www.omim.org/entry/610061
DNAH8	6p21.2	https://www.omim.org/entry/603337
DNAH9	17p12	https://www.omim.org/entry/603330
DNAI1	9p13.3	https://www.omim.org/entry/604366
DNAI2	17q25.1	https://www.omim.org/entry/605483
DNAJB11	3q27.3	https://www.omim.org/entry/611341
DNAJB13	11q13.4	https://www.omim.org/entry/610263
DNAJB2	2q35	https://www.omim.org/entry/604139
DNAJB4	1p31.1	https://www.omim.org/entry/611327
DNAJB6	7q36.3	https://www.omim.org/entry/611332
DNAJC12	10q21.3	https://www.omim.org/entry/606060
DNAJC13	3q22.1	
DNAJC19	3q26.33	https://www.omim.org/entry/608977
DNAJC21	5p13.2	https://www.omim.org/entry/617048
DNAJC3	13q32.1	https://www.omim.org/entry/601184
DNAJC30	7q11.23	https://www.omim.org/entry/618202
DNAJC5	20q13.33	https://www.omim.org/entry/611203
DNAJC6	1p31.3	https://www.omim.org/entry/608375
DNAJC7	17q21.2	
DNAL1	14q24.3	https://www.omim.org/entry/610062
DNALI1	1p34.3	https://www.omim.org/entry/602135
DNASE1L3	3p14.3	https://www.omim.org/entry/602244
DNASE2	19p13.13	https://www.omim.org/entry/126350
DNHD1	11p15.4	https://www.omim.org/entry/617277
DNM1	9q34.11	https://www.omim.org/entry/602377
DNM2	19p13.2	https://www.omim.org/entry/602378
DNMBP	10q24.2	https://www.omim.org/entry/611282
DNMT1	19p13.2	https://www.omim.org/entry/126375
DNMT3A	2p23.3	https://www.omim.org/entry/602769
DNMT3B	20q11.21	https://www.omim.org/entry/602900
DOCK11	Xq24	https://www.omim.org/entry/300681
DOCK2	5q35.1	https://www.omim.org/entry/603122
DOCK3	3p21.2	https://www.omim.org/entry/603123
DOCK4	7q31.1	
DOCK6	19p13.2	https://www.omim.org/entry/614194
DOCK7	1p31.3	https://www.omim.org/entry/615730
DOCK8	9p24.3	https://www.omim.org/entry/611432
DOHH	19p13.3	https://www.omim.org/entry/611262
DOK7	4p16.3	https://www.omim.org/entry/610285
DOLK	9q34.11	https://www.omim.org/entry/610746
DONSON	21q22.11	https://www.omim.org/entry/611428
DOT1L	19p13.3	
DPAGT1	11q23.3	https://www.omim.org/entry/191350
DPF2	11q13.1	https://www.omim.org/entry/601671
DPH1	17p13.3	https://www.omim.org/entry/603527
DPH2	1p34.1	https://www.omim.org/entry/603456

DPH5	1p21.2	https://www.omim.org/entry/611075
DPM1	20q13.13	https://www.omim.org/entry/603503
DPM2	9q34.11	https://www.omim.org/entry/603564
DPM3	1q22	https://www.omim.org/entry/605951
DPP6	7q36.2	https://www.omim.org/entry/126141
DPP9	19p13.3	https://www.omim.org/entry/608258
DPY19L2	12q14.2	https://www.omim.org/entry/613893
DPYD	1p21.3	https://www.omim.org/entry/612779
DPYS	8q22.3	https://www.omim.org/entry/613326
DPYSL5	2p23.3	https://www.omim.org/entry/608383
DRAM2	1p13.3	https://www.omim.org/entry/613360
DRC1	2p23.3	https://www.omim.org/entry/615288
DRD2	11q23.2	
DRD4	11p15.5	https://www.omim.org/entry/126452
DRG1	22q12.2	https://www.omim.org/entry/603952
DROSHA	5p13.3	
DRP2	Xq22.1	
DSC2	18q12.1	https://www.omim.org/entry/125645
DSC3	18q12.1	https://www.omim.org/entry/600271
DSCAM	21q22.2	
DSG1	18q12.1	https://www.omim.org/entry/125670
DSG2	18q12.1	https://www.omim.org/entry/125671
DSG3	18q12.1	https://www.omim.org/entry/169615
DSG4	18q12.1	https://www.omim.org/entry/607892
DSP	6p24.3	https://www.omim.org/entry/125647
DSPP	4q22.1	https://www.omim.org/entry/125485
DST	6p12.1	https://www.omim.org/entry/113810
DSTYK	1q32.1	https://www.omim.org/entry/612666
DTNA	18q12.1	https://www.omim.org/entry/601239
DTNBP1	6p22.3	https://www.omim.org/entry/607145
DTYMK	2q37.3	https://www.omim.org/entry/188345
DUOX1	15q21.1	
DUOX2	15q21.1	https://www.omim.org/entry/606759
DUOXA2	15q21.1	https://www.omim.org/entry/612772
DUSP6	12q21.33	https://www.omim.org/entry/602748
DUT	15q21.1	https://www.omim.org/entry/601266
DVL1	1p36.33	https://www.omim.org/entry/601365
DVL2	17p13.1	
DVL3	3q27.1	https://www.omim.org/entry/601368
DYM	18q21.1	https://www.omim.org/entry/607461
DYNC1H1	14q32.31	https://www.omim.org/entry/600112
DYNC1I1	7q21.3	
DYNC1I2	2q31.1	https://www.omim.org/entry/603331
DYNC2H1	11q22.3	https://www.omim.org/entry/603297
DYNC2I1	7q36.3	https://www.omim.org/entry/615462
DYNC2I2	9q34.11	https://www.omim.org/entry/613363
DYNC2L1	2p21	https://www.omim.org/entry/617083
DYNLT2B	3q29	https://www.omim.org/entry/617353
DYRK1A	21q22.13	https://www.omim.org/entry/600855
DYRK1B	19q13.2	https://www.omim.org/entry/604556

DYSF	2p13.2	https://www.omim.org/entry/603009
DZIP1	13q32.1	https://www.omim.org/entry/608671
DZIP1L	3q22.3	https://www.omim.org/entry/617570
EARS2	16p12.2	https://www.omim.org/entry/612799
EBF3	10q26.3	https://www.omim.org/entry/607407
EBP	Xp11.23	https://www.omim.org/entry/300205
ECE1	1p36.12	
ECEL1	2q37.1	https://www.omim.org/entry/605896
ECHS1	10q26.3	https://www.omim.org/entry/602292
ECM1	1q21.2	https://www.omim.org/entry/602201
EDA	Xq13.1	https://www.omim.org/entry/300451
EDAR	2q13	https://www.omim.org/entry/604095
EDARADD	1q42.3-q43	https://www.omim.org/entry/606603
EDEM3	1q25.3	https://www.omim.org/entry/610214
EDN1	6p24.1	https://www.omim.org/entry/131240
EDN3	20q13.32	https://www.omim.org/entry/131242
EDNRA	4q31.22-q31.1	https://www.omim.org/entry/131243
EDNRB	13q22.3	https://www.omim.org/entry/131244
EED	11q14.2	https://www.omim.org/entry/605984
EEF1A2	20q13.33	https://www.omim.org/entry/602959
EEF1B2	2q33.3	
EEF1D	8q24.3	
EEF2	19p13.3	
EFEMP1	2p16.1	https://www.omim.org/entry/601548
EFEMP2	11q13.1	https://www.omim.org/entry/604633
EFHC1	6p12.2	
EFL1	15q25.2	https://www.omim.org/entry/617538
EFNB1	Xq13.1	https://www.omim.org/entry/300035
EFTUD2	17q21.31	https://www.omim.org/entry/603892
EGFR	7p11.2	https://www.omim.org/entry/131550
EGLN1	1q42.2	https://www.omim.org/entry/606425
EGR2	10q21.3	https://www.omim.org/entry/129010
EHBP1L1	11q13.1	
EHHADH	3q27.2	
EHMT1	9q34.3	https://www.omim.org/entry/607001
EIF2AK2	2p22.2	https://www.omim.org/entry/176871
EIF2AK3	2p11.2	https://www.omim.org/entry/604032
EIF2AK4	15q15.1	https://www.omim.org/entry/609280
EIF2B1	12q24.31	https://www.omim.org/entry/606686
EIF2B2	14q24.3	https://www.omim.org/entry/606454
EIF2B3	1p34.1	https://www.omim.org/entry/606273
EIF2B4	2p23.3	https://www.omim.org/entry/606687
EIF2B5	3q27.1	https://www.omim.org/entry/603945
EIF2S3	Xp22.11	https://www.omim.org/entry/300161
EIF3F	11p15.4	https://www.omim.org/entry/603914
EIF4A2	3q27.3	https://www.omim.org/entry/601102
EIF4A3	17q25.3	https://www.omim.org/entry/608546
EIF4G1	3q27.1	
EIF5A	17p13.1	https://www.omim.org/entry/600187
ELAC2	17p12	https://www.omim.org/entry/605367

ELANE	19p13.3	https://www.omim.org/entry/130130
ELF4	Xq26.1	https://www.omim.org/entry/300775
ELMO2	20q13.12	https://www.omim.org/entry/606421
ELN	7q11.23	https://www.omim.org/entry/130160
ELOVL1	1p34.2	https://www.omim.org/entry/611813
ELOVL5	6p12.1	https://www.omim.org/entry/611805
ELP1	9q31.3	https://www.omim.org/entry/603722
ELP2	18q12.2	https://www.omim.org/entry/616054
EMC1	1p36.13	https://www.omim.org/entry/616846
EMC10	19q13.33	https://www.omim.org/entry/614545
EMD	Xq28	https://www.omim.org/entry/300384
EMG1	12p13.31	https://www.omim.org/entry/611531
EMILIN1	2p23.3	https://www.omim.org/entry/130660
EML1	14q32.2	https://www.omim.org/entry/602033
EMP2	16p13.13	https://www.omim.org/entry/602334
EMX2	10q26.11	https://www.omim.org/entry/600035
EN1	2q14.2	
ENAM	4q13.3	https://www.omim.org/entry/606585
ENG	9q34.11	https://www.omim.org/entry/131195
ENO3	17p13.2	https://www.omim.org/entry/131370
ENPP1	6q23.2	https://www.omim.org/entry/173335
ENTPD1	10q24.1	https://www.omim.org/entry/601752
EOGT	3p14.1	https://www.omim.org/entry/614789
EOMES	3p24.1	
EP300	22q13.2	https://www.omim.org/entry/602700
EPAS1	2p21	https://www.omim.org/entry/603349
EPB41	1p35.3	https://www.omim.org/entry/130500
EPB41L3	18p11.31	
EPB42	15q15.2	https://www.omim.org/entry/177070
EPCAM	2p21	https://www.omim.org/entry/185535
EPG5	18q12.3-q21.1	https://www.omim.org/entry/615068
EPHA2	1p36.13	https://www.omim.org/entry/176946
EPHB2	1p36.12	
EPHB4	7q22.1	https://www.omim.org/entry/600011
EPHX1	1q42.12	
EPM2A	6q24.3	https://www.omim.org/entry/607566
EPO	7q22.1	https://www.omim.org/entry/133170
EPOR	19p13.2	
EPRS1	1q41	https://www.omim.org/entry/138295
EPS8	12p12.3	
EPS8L2	11p15.5	https://www.omim.org/entry/614988
ERAL1	17q11.2	https://www.omim.org/entry/607435
ERBB2	17q12	https://www.omim.org/entry/164870
ERBB3	12q13.2	https://www.omim.org/entry/190151
ERBB4	2q34	https://www.omim.org/entry/600543
ERBIN	5q12.3	
ERC1	12p13.33	
ERCC1	19q13.32	https://www.omim.org/entry/126380
ERCC2	19q13.32	https://www.omim.org/entry/126340
ERCC3	2q14.3	https://www.omim.org/entry/133510

ERCC4	16p13.12	https://www.omim.org/entry/133520
ERCC5	13q33.1	https://www.omim.org/entry/133530
ERCC6	10q11.23	https://www.omim.org/entry/609413
ERCC6L2	9q22.32	https://www.omim.org/entry/615667
ERCC8	5q12.1	https://www.omim.org/entry/609412
ERF	19q13.2	https://www.omim.org/entry/611888
ERG	21q22.2	https://www.omim.org/entry/165080
ERGIC1	5q35.1	
ERI1	8p23.1	https://www.omim.org/entry/608739
ERLEC1	2p16.2	
ERLIN1	10q24.31	https://www.omim.org/entry/611604
ERLIN2	8p11.23	https://www.omim.org/entry/611605
ERMARD	6q27	
ESAM	11q24.2	https://www.omim.org/entry/614281
ESCO2	8p21.1	https://www.omim.org/entry/609353
ESM1	5q11.2	
ESPN	1p36.31	https://www.omim.org/entry/606351
ESR1	6q25.1-q25.2	https://www.omim.org/entry/133430
ESRRB	14q24.3	https://www.omim.org/entry/602167
ETFA	15q24.2-q24.3	https://www.omim.org/entry/608053
ETFB	19q13.41	https://www.omim.org/entry/130410
ETFDH	4q32.1	https://www.omim.org/entry/231675
ETHE1	19q13.31	https://www.omim.org/entry/608451
ETV6	12p13.2	https://www.omim.org/entry/600618
EVC	4p16.2	https://www.omim.org/entry/604831
EVC2	4p16.2	https://www.omim.org/entry/607261
EWSR1	22q12.2	https://www.omim.org/entry/133450
EXOC2	6p25.3	https://www.omim.org/entry/615329
EXOC3L2	19q13.32	https://www.omim.org/entry/616927
EXOC6B	2p13.2	https://www.omim.org/entry/607880
EXOC7	17q25.1	https://www.omim.org/entry/608163
EXOSC2	9q34.12	https://www.omim.org/entry/602238
EXOSC3	9p13.2	https://www.omim.org/entry/606489
EXOSC5	19q13.2	https://www.omim.org/entry/606492
EXOSC8	13q13.3	https://www.omim.org/entry/606019
EXOSC9	4q27	https://www.omim.org/entry/606180
EXPH5	11q22.3	https://www.omim.org/entry/612878
EXT1	8q24.11	https://www.omim.org/entry/608177
EXT2	11p11.2	https://www.omim.org/entry/608210
EXTL3	8p21.1	https://www.omim.org/entry/605744
EYA1	8q13.3	https://www.omim.org/entry/601653
EYA4	6q23.2	https://www.omim.org/entry/603550
EYS	6q12	https://www.omim.org/entry/612424
EZH1	17q21.2	
EZH2	7q36.1	https://www.omim.org/entry/601573
F10	13q34	https://www.omim.org/entry/613872
F11	4q35.2	https://www.omim.org/entry/264900
F12	5q35.3	https://www.omim.org/entry/610619
F13A1	6p25.1	https://www.omim.org/entry/134570
F13B	1q31.3	https://www.omim.org/entry/134580

F2	11p11.2	https://www.omim.org/entry/176930
F5	1q24.2	https://www.omim.org/entry/612309
F7	13q34	https://www.omim.org/entry/613878
F8	Xq28	https://www.omim.org/entry/300841
F9	Xq27.1	https://www.omim.org/entry/300746
FA2H	16q23.1	https://www.omim.org/entry/611026
FAAP20	1p36.33	
FAAP24	19q13.11	
FADD	11q13.3	https://www.omim.org/entry/602457
FAH	15q25.1	https://www.omim.org/entry/613871
FAM111A	11q12.1	https://www.omim.org/entry/615292
FAM111B	11q12.1	https://www.omim.org/entry/615584
FAM149B1	10q22.2	https://www.omim.org/entry/618413
FAM161A	2p15	https://www.omim.org/entry/613596
FAM177A1	14q13.2	
FAM20A	17q24.2	https://www.omim.org/entry/611062
FAM20C	7p22.3	https://www.omim.org/entry/611061
FAM50A	Xq28	https://www.omim.org/entry/300453
FAM83H	8q24.3	https://www.omim.org/entry/611927
FAN1	15q13.3	https://www.omim.org/entry/613534
FANCA	16q24.3	https://www.omim.org/entry/607139
FANCB	Xp22.2	https://www.omim.org/entry/300515
FANCC	9q22.32	https://www.omim.org/entry/613899
FANCD2	3p25.3	https://www.omim.org/entry/613984
FANCE	6p21.31	https://www.omim.org/entry/613976
FANCF	11p14.3	https://www.omim.org/entry/613897
FANCG	9p13.3	https://www.omim.org/entry/602956
FANCI	15q26.1	https://www.omim.org/entry/611360
FANCL	2p16.1	https://www.omim.org/entry/608111
FANCM	14q21.2	https://www.omim.org/entry/609644
FAP	2q24.2	
FAR1	11p15.3	https://www.omim.org/entry/616107
FARS2	6p25.1	https://www.omim.org/entry/611592
FARSA	19p13.13	
FARSB	2q36.1	https://www.omim.org/entry/609690
FAS	10q23.31	https://www.omim.org/entry/134637
FASLG	1q24.3	https://www.omim.org/entry/134638
FASTKD2	2q33.3	https://www.omim.org/entry/612322
FAT1	4q35.2	
FAT2	5q33.1	https://www.omim.org/entry/604269
FAT4	4q28.1	https://www.omim.org/entry/612411
FBLN5	14q32.12	https://www.omim.org/entry/604580
FBN2	5q23.3	https://www.omim.org/entry/612570
FBP1	9q22.32	https://www.omim.org/entry/611570
FBRSL1	12q24.33	
FBXL3	13q22.3	https://www.omim.org/entry/605653
FBXL4	6q16.1-q16.2	https://www.omim.org/entry/605654
FBXO11	2p16.3	https://www.omim.org/entry/607871
FBXO28	1q42.11	https://www.omim.org/entry/609100
FBXO31	16q24.2	

FBXO38	5q32	https://www.omim.org/entry/608533
FBXO43	8q22.2	https://www.omim.org/entry/609110
FBXO7	22q12.3	https://www.omim.org/entry/605648
FBXW11	5q35.1	https://www.omim.org/entry/605651
FBXW7	4q31.3	https://www.omim.org/entry/606278
FCGR2A	1q23.3	
FCGR3A	1q23.3	https://www.omim.org/entry/146740
FCGR3B	1q23.3	
FCHO1	19p13.11	https://www.omim.org/entry/613437
FCN3	1p36.11	https://www.omim.org/entry/604973
FCSK	16q22.1	https://www.omim.org/entry/608675
FDFT1	8p23.1	https://www.omim.org/entry/184420
FDPS	1q22	https://www.omim.org/entry/134629
FDX2	19p13.2	https://www.omim.org/entry/614585
FDXR	17q25.1	https://www.omim.org/entry/103270
FECH	18q21.31	https://www.omim.org/entry/612386
FEM1B	15q23	
FEM1C	5q22.3	
FERMT1	20p12.3	https://www.omim.org/entry/607900
FERMT3	11q13.1	https://www.omim.org/entry/607901
FERRY3	12p13.32	https://www.omim.org/entry/616082
FEZF1	7q31.32	https://www.omim.org/entry/613301
FEZF2	3p14.2	
FGA	4q31.3	https://www.omim.org/entry/134820
FGB	4q31.3	https://www.omim.org/entry/134830
FGD1	Xp11.22	https://www.omim.org/entry/300546
FGD4	12p11.21	https://www.omim.org/entry/611104
FGF10	5p12	https://www.omim.org/entry/602115
FGF12	3q28-q29	https://www.omim.org/entry/601513
FGF13	Xq26.3-q27.1	https://www.omim.org/entry/300070
FGF14	13q33.1	https://www.omim.org/entry/601515
FGF16	Xq21.1	https://www.omim.org/entry/300827
FGF17	8p21.3	https://www.omim.org/entry/603725
FGF23	12p13.32	https://www.omim.org/entry/605380
FGF3	11q13.3	https://www.omim.org/entry/164950
FGF5	4q21.21	https://www.omim.org/entry/165190
FGF9	13q12.11	https://www.omim.org/entry/600921
FGFR2	10q26.13	https://www.omim.org/entry/176943
FGFR3	4p16.3	https://www.omim.org/entry/134934
FGFR4	5q35.2	
FGG	4q32.1	https://www.omim.org/entry/134850
FH	1q43	https://www.omim.org/entry/136850
FHL1	Xq26.3	https://www.omim.org/entry/300163
FHOD3	18q12.2	https://www.omim.org/entry/609691
FIBP	11q13.1	https://www.omim.org/entry/608296
FICD	12q23.3	https://www.omim.org/entry/620875
FIG4	6q21	https://www.omim.org/entry/609390
FILIP1	6q14.1	https://www.omim.org/entry/607307
FIP1L1	4q12	
FITM2	20q13.12	https://www.omim.org/entry/612029

FKBP4	12p13.33	
FKBP6	7q11.23	https://www.omim.org/entry/604839
FKRP	19q13.32	https://www.omim.org/entry/606596
FKTN	9q31.2	https://www.omim.org/entry/607440
FLAD1	1q21.3	https://www.omim.org/entry/610595
FLCN	17p11.2	https://www.omim.org/entry/607273
FLG	1q21.3	https://www.omim.org/entry/135940
FLG2	1q21.3	https://www.omim.org/entry/616284
FLI1	11q24.3	https://www.omim.org/entry/193067
FLII	17p11.2	https://www.omim.org/entry/600362
FLNA	Xq28	https://www.omim.org/entry/300017
FLNB	3p14.3	https://www.omim.org/entry/603381
FLNC	7q32.1	https://www.omim.org/entry/102565
FLRT3	20p12.1	https://www.omim.org/entry/604808
FLT3	13q12.2	https://www.omim.org/entry/136351
FLT4	5q35.3	https://www.omim.org/entry/136352
FLVCR1	1q32.3	https://www.omim.org/entry/609144
FLVCR2	14q24.3	https://www.omim.org/entry/610865
FMN2	1q43	https://www.omim.org/entry/606373
FMO3	1q24.3	https://www.omim.org/entry/136132
FMR1	Xq27.3	https://www.omim.org/entry/309550
FN1	2q35	https://www.omim.org/entry/135600
FNIP1	5q31.1	https://www.omim.org/entry/610594
FOCAD	9p21.3	https://www.omim.org/entry/614606
FOLR1	11q13.4	https://www.omim.org/entry/136430
FOSL2	2p23.2	https://www.omim.org/entry/601575
FOXA2	20p11.21	
FOXC1	6p25.3	https://www.omim.org/entry/601090
FOXC2	16q24.1	https://www.omim.org/entry/602402
FOXD3	1p31.3	
FOX E1	9q22.33	https://www.omim.org/entry/602617
FOX E3	1p33	https://www.omim.org/entry/601094
FOX F1	16q24.1	https://www.omim.org/entry/601089
FOX G1	14q12	https://www.omim.org/entry/164874
FOX H1	8q24.3	
FOX I1	5q35.1	https://www.omim.org/entry/601093
FOX I3	2p11.2	https://www.omim.org/entry/612351
FOX J1	17q25.1	https://www.omim.org/entry/602291
FOX L1	16q24.1	https://www.omim.org/entry/603252
FOX L2	3q22.3	https://www.omim.org/entry/605597
FOX N1	17q11.2	https://www.omim.org/entry/600838
FOX O1	13q14.11	https://www.omim.org/entry/136533
FOX P1	3p13	https://www.omim.org/entry/605515
FOX P2	7q31.1	https://www.omim.org/entry/605317
FOX P3	Xp11.23	https://www.omim.org/entry/300292
FOX P4	6p21.1	
FOXRED1	11q24.2	https://www.omim.org/entry/613622
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FPR2	19q13.41	
FRA10AC1	10q23.33	https://www.omim.org/entry/608866

FRAS1	4q21.21	https://www.omim.org/entry/607830
FREM1	9p22.3	https://www.omim.org/entry/608944
FREM2	13q13.3	https://www.omim.org/entry/608945
FRMD4A	10p13	
FRMD5	15q15.3	https://www.omim.org/entry/616309
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FRMPD4	Xp22.2	https://www.omim.org/entry/300838
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FRY	13q13.1	
FRYL	4p11	
FSCN2	17q25.3	https://www.omim.org/entry/607643
FSD1L	9q31.2	
FSIP2	2q32.1	https://www.omim.org/entry/615796
FTCD	21q22.3	https://www.omim.org/entry/606806
FTH1	11q12.3	https://www.omim.org/entry/134770
FTL	19q13.33	https://www.omim.org/entry/134790
FTO	16q12.2	https://www.omim.org/entry/610966
FTSJ1	Xp11.23	https://www.omim.org/entry/300499
FUCA1	1p36.11	https://www.omim.org/entry/612280
FUS	16p11.2	https://www.omim.org/entry/137070
FUT1	19q13.33	
FUT2	19q13.33	
FUT8	14q23.3	https://www.omim.org/entry/602589
FUZ	19q13.33	
FXN	9q21.11	https://www.omim.org/entry/606829
FXR1	3q26.33	https://www.omim.org/entry/600819
FXYP2	11q23.3	https://www.omim.org/entry/601814
FYB1	5p13.1	https://www.omim.org/entry/602731
FYCO1	3p21.31	https://www.omim.org/entry/607182
FZD2	17q21.31	https://www.omim.org/entry/600667
FZD4	11q14.2	https://www.omim.org/entry/604579
FZD5	2q33.3	https://www.omim.org/entry/601723
FZD6	8q22.3	https://www.omim.org/entry/603409
FZR1	19p13.3	https://www.omim.org/entry/603619
G6PC1	17q21.31	https://www.omim.org/entry/613742
G6PC3	17q21.31	https://www.omim.org/entry/611045
G6PD	Xq28	https://www.omim.org/entry/305900
GAA	17q25.3	https://www.omim.org/entry/606800
GABBR1	6p22.1	https://www.omim.org/entry/603540
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GABRA2	4p12	https://www.omim.org/entry/137140
GABRA3	Xq28	https://www.omim.org/entry/305660
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GABRA5	15q12	https://www.omim.org/entry/137142
GABRB1	4p12	https://www.omim.org/entry/137190
GABRB2	5q34	https://www.omim.org/entry/600232
GABRB3	15q12	https://www.omim.org/entry/137192
GABRD	1p36.33	
GABRE	Xq28	

GABRG2	5q34	https://www.omim.org/entry/137164
GAD1	2q31.1	https://www.omim.org/entry/605363
GALC	14q31.3	https://www.omim.org/entry/606890
GALE	1p36.11	https://www.omim.org/entry/606953
GALK1	17q25.1	https://www.omim.org/entry/604313
GALM	2p22.1	https://www.omim.org/entry/137030
GALNS	16q24.3	https://www.omim.org/entry/612222
GALNT12	9q22.33	
GALNT2	1q42.13	https://www.omim.org/entry/602274
GALNT3	2q24.3	https://www.omim.org/entry/601756
GALT	9p13.3	https://www.omim.org/entry/606999
GAMT	19p13.3	https://www.omim.org/entry/601240
GAN	16q23.2	https://www.omim.org/entry/605379
GANAB	11q12.3	https://www.omim.org/entry/104160
GARS1	7p14.3	https://www.omim.org/entry/600287
GAS2L2	17q12	
GAS8	16q24.3	https://www.omim.org/entry/605178
GATA1	Xp11.23	https://www.omim.org/entry/305371
GATA2	3q21.3	https://www.omim.org/entry/137295
GATA3	10p14	https://www.omim.org/entry/131320
GATA4	8p23.1	https://www.omim.org/entry/600576
GATA5	20q13.33	https://www.omim.org/entry/611496
GATA6	18q11.2	https://www.omim.org/entry/601656
GATAD2A	19p13.11	
GATAD2B	1q21.3	https://www.omim.org/entry/614998
GATB	4q31.3	
GATC	12q24.31	https://www.omim.org/entry/617210
GATM	15q21.1	https://www.omim.org/entry/602360
GBA1	1q22	https://www.omim.org/entry/606463
GBA2	9p13.3	https://www.omim.org/entry/609471
GBE1	3p12.2	https://www.omim.org/entry/607839
GBF1	10q24.32	https://www.omim.org/entry/603698
GC	4q13.3	
GCDH	19p13.13	https://www.omim.org/entry/608801
GCGR	17q25.3	https://www.omim.org/entry/138033
GCH1	14q22.2	https://www.omim.org/entry/600225
GCK	7p13	https://www.omim.org/entry/138079
GCKR	2p23.3	
GCLC	6p12.1	https://www.omim.org/entry/606857
GCM2	6p24.2	https://www.omim.org/entry/603716
GCNA	Xq13.1	https://www.omim.org/entry/300369
GCNT2	6p24.3-p24.2	https://www.omim.org/entry/600429
GCSH	16q23.2	https://www.omim.org/entry/238330
GDAP1	8q21.11	https://www.omim.org/entry/606598
GDAP2	1p12	https://www.omim.org/entry/618128
GDF1	19p13.11	https://www.omim.org/entry/602880
GDF11	12q13.2	
GDF2	10q11.22	https://www.omim.org/entry/605120
GDF3	12p13.31	https://www.omim.org/entry/606522
GDF5	20q11.22	https://www.omim.org/entry/601146

GDF6	8q22.1	https://www.omim.org/entry/601147
GDF9	5q31.1	https://www.omim.org/entry/601918
GDI1	Xq28	https://www.omim.org/entry/300104
GDNF	5p13.2	
GEMIN4	17p13.3	https://www.omim.org/entry/606969
GEMIN5	5q33.2	https://www.omim.org/entry/607005
GFAP	17q21.31	https://www.omim.org/entry/137780
GFER	16p13.3	https://www.omim.org/entry/600924
GFI1	1p22.1	https://www.omim.org/entry/600871
GFI1B	9q34.13	https://www.omim.org/entry/604383
GFM1	3q25.32	https://www.omim.org/entry/606639
GFM2	5q13.3	https://www.omim.org/entry/606544
GFPT1	2p13.3	https://www.omim.org/entry/138292
GFRA1	10q25.3	https://www.omim.org/entry/601496
GGCX	2p11.2	https://www.omim.org/entry/137167
GGN	19q13.2	https://www.omim.org/entry/609966
GGPS1	1q42.3	https://www.omim.org/entry/606982
GH1	17q23.3	https://www.omim.org/entry/139250
GHR	5p13.1-p12	https://www.omim.org/entry/600946
GHRHR	7p14.3	https://www.omim.org/entry/139191
GHSR	3q26.31	https://www.omim.org/entry/601898
GIGYF1	7q22.1	
GIGYF2	2q37.1	
GIMAP5	7q36.1	https://www.omim.org/entry/608086
GIMAP6	7q36.1	
GIN1	20p11.21	https://www.omim.org/entry/610608
GIN3	16q21	
GIPC1	19p13.12	https://www.omim.org/entry/605072
GIPC3	19p13.3	https://www.omim.org/entry/608792
GIT1	17q11.2	
GJA1	6q22.31	https://www.omim.org/entry/121014
GJA3	13q12.11	https://www.omim.org/entry/121015
GJA4	1p34.3	
GJA5	1q21.2	https://www.omim.org/entry/121013
GJA8	1q21.2	https://www.omim.org/entry/600897
GJB1	Xq13.1	https://www.omim.org/entry/304040
GJB2	13q12.11	https://www.omim.org/entry/121011
GJB3	1p34.3	https://www.omim.org/entry/603324
GJB4	1p34.3	https://www.omim.org/entry/605425
GJB6	13q12.11	https://www.omim.org/entry/604418
GJC2	1q42.13	https://www.omim.org/entry/608803
GJC3	7q22.1	
GK	Xp21.2	https://www.omim.org/entry/300474
GLA	Xq22.1	https://www.omim.org/entry/300644
GLB1	3p22.3	https://www.omim.org/entry/611458
GLDC	9p24.1	https://www.omim.org/entry/238300
GLDN	15q21.2	https://www.omim.org/entry/608603
GLE1	9q34.11	https://www.omim.org/entry/603371
GLI1	12q13.3	https://www.omim.org/entry/165220
GLI2	2q14.2	https://www.omim.org/entry/165230

GLI3	7p14.1	https://www.omim.org/entry/165240
GLIS2	16p13.3	https://www.omim.org/entry/608539
GLIS3	9p24.2	https://www.omim.org/entry/610192
GLMN	1p22.1	https://www.omim.org/entry/601749
GLRA1	5q33.1	https://www.omim.org/entry/138491
GLRA2	Xp22.2	https://www.omim.org/entry/305990
GLRB	4q32.1	https://www.omim.org/entry/138492
GLRX5	14q32.13	https://www.omim.org/entry/609588
GLS	2q32.2	https://www.omim.org/entry/138280
GLT8D1	3p21.1	
GLUD1	10q23.2	https://www.omim.org/entry/138130
GLUL	1q25.3	https://www.omim.org/entry/138290
GLYCTK	3p21.2	https://www.omim.org/entry/610516
GM2A	5q33.1	https://www.omim.org/entry/613109
GMNN	6p22.3	https://www.omim.org/entry/602842
GMPPA	2q35	https://www.omim.org/entry/615495
GMPPB	3p21.31	https://www.omim.org/entry/615320
GNA11	19p13.3	https://www.omim.org/entry/139313
GNA14	9q21.2	
GNAI1	7q21.11	https://www.omim.org/entry/139310
GNAI2	3p21.31	https://www.omim.org/entry/139360
GNAI3	1p13.3	https://www.omim.org/entry/139370
GNAL	18p11.21	https://www.omim.org/entry/139312
GNAO1	16q13	https://www.omim.org/entry/139311
GNAQ	9q21.2	https://www.omim.org/entry/600998
GNAS	20q13.32	https://www.omim.org/entry/139320
GNAS-AS1	20q13.32	https://www.omim.org/entry/610540
GNAT1	3p21.31	https://www.omim.org/entry/139330
GNAT2	1p13.3	https://www.omim.org/entry/139340
GNB1	1p36.33	https://www.omim.org/entry/139380
GNB2	7q22.1	https://www.omim.org/entry/139390
GNB3	12p13.31	https://www.omim.org/entry/139130
GNB4	3q26.33	https://www.omim.org/entry/610863
GNB5	15q21.2	https://www.omim.org/entry/604447
GNE	9p13.3	https://www.omim.org/entry/603824
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GNPAT	1q42.2	https://www.omim.org/entry/602744
GNPTAB	12q23.2	https://www.omim.org/entry/607840
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GNRHR	4q13.2	https://www.omim.org/entry/138850
GNS	12q14.3	https://www.omim.org/entry/607664
GOLGA2	9q34.11	https://www.omim.org/entry/602580
GOLGA5	14q32.12	
GON4L	1q22	
GON7	14q32.12	https://www.omim.org/entry/617436
GORAB	1q24.2	https://www.omim.org/entry/607983
GOSR2	17q21.32	https://www.omim.org/entry/604027
GOT1	10q24.2	https://www.omim.org/entry/138180
GOT2	16q21	https://www.omim.org/entry/138150
GP1BA	17p13.2	https://www.omim.org/entry/606672

GP1BB	22q11.21	https://www.omim.org/entry/138720
GP6	19q13.42	https://www.omim.org/entry/605546
GP9	3q21.3	https://www.omim.org/entry/173515
GPAA1	8q24.3	https://www.omim.org/entry/603048
GPATCH11	2p22.2	
GPATCH3	1p36.11	
GPC3	Xq26.2	https://www.omim.org/entry/300037
GPC4	Xq26.2	https://www.omim.org/entry/300168
GPC6	13q31.3-q32.1	https://www.omim.org/entry/604404
GPD1	12q13.12	https://www.omim.org/entry/138420
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GPHN	14q23.3	https://www.omim.org/entry/603930
GPI	19q13.11	https://www.omim.org/entry/172400
GPIHBP1	8q24.3	https://www.omim.org/entry/612757
GNMB	7p15.3	https://www.omim.org/entry/604368
GPR101	Xq26.3	https://www.omim.org/entry/300393
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GPR156	3q13.33	https://www.omim.org/entry/610464
GPR161	1q24.2	
GPR179	17q12	https://www.omim.org/entry/614515
GPR68	14q32.11	https://www.omim.org/entry/601404
GPC5B	16p12.3	https://www.omim.org/entry/605948
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GPT2	16q11.2	https://www.omim.org/entry/138210
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GRAP	17p11.2	https://www.omim.org/entry/604330
GRB10	7p12.1	
GREB1L	18q11.1-q11.2	https://www.omim.org/entry/617782
GREM1	15q13.3	
GREM2	1q43	https://www.omim.org/entry/608832
GRHL2	8q22.3	https://www.omim.org/entry/608576
GRHL3	1p36.11	https://www.omim.org/entry/608317
GRHPR	9p13.2	https://www.omim.org/entry/604296
GRIA1	5q33.2	https://www.omim.org/entry/138248
GRIA2	4q32.1	https://www.omim.org/entry/138247
GRIA3	Xq25	https://www.omim.org/entry/305915
GRIA4	11q22.3	https://www.omim.org/entry/138246
GRID2	4q22.1-q22.2	https://www.omim.org/entry/602368
GRIK2	6q16.3	https://www.omim.org/entry/138244
GRIN1	9q34.3	https://www.omim.org/entry/138249
GRIN2A	16p13.2	https://www.omim.org/entry/138253
GRIN2B	12p13.1	https://www.omim.org/entry/138252
GRIN2C	17q25.1	
GRIN2D	19q13.33	https://www.omim.org/entry/602717
GRIN3A	9q31.1	
GRIN3B	19p13.3	
GRIP1	12q14.3	https://www.omim.org/entry/604597
GRK1	13q34	https://www.omim.org/entry/180381
GRM1	6q24.3	https://www.omim.org/entry/604473
GRM6	5q35.3	https://www.omim.org/entry/604096

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GRXCR1	4p13	https://www.omim.org/entry/613283
GRXCR2	5q32	
GSC	14q32.13	https://www.omim.org/entry/138890
GSDME	7p15.3	https://www.omim.org/entry/608798
GSN	9q33.2	https://www.omim.org/entry/137350
GSPT2	Xp11.22	
GSR	8p12	https://www.omim.org/entry/138300
GSS	20q11.22	https://www.omim.org/entry/601002
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GSX2	4q12	https://www.omim.org/entry/616253
GTF2E2	8p12	https://www.omim.org/entry/189964
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GTF3C5	9q34.13	
GTPBP1	22q13.1	https://www.omim.org/entry/602245
GTPBP2	6p21.1	https://www.omim.org/entry/607434
GTPBP3	19p13.11	https://www.omim.org/entry/608536
GUCA1B	6p21.1	https://www.omim.org/entry/602275
GUCY1A1	4q32.1	https://www.omim.org/entry/139396
GUCY2C	12p12.3	https://www.omim.org/entry/601330
GUSB	7q11.21	https://www.omim.org/entry/611499
GYG1	3q24	https://www.omim.org/entry/603942
GYS1	19q13.33	https://www.omim.org/entry/138570
GYS2	12p12.1	https://www.omim.org/entry/138571
GZF1	20p11.21	https://www.omim.org/entry/613842
GZMA	5q11.2	
GZMB	14q12	
H1-4	6p22.2	https://www.omim.org/entry/142220
H19	11p15.5	
H3-3A	1q42.12	https://www.omim.org/entry/601128
H3-3B	17q25.1	https://www.omim.org/entry/601058
H4C3	6p22.2	https://www.omim.org/entry/602827
H4C5	6p22.2	https://www.omim.org/entry/602830
H4C9	6p22.1	https://www.omim.org/entry/602833
H6PD	1p36.22	https://www.omim.org/entry/138090
HAAO	2p21	https://www.omim.org/entry/604521
HACD1	10p12.33	https://www.omim.org/entry/610467
HACE1	6q16.3	https://www.omim.org/entry/610876
HADH	4q25	https://www.omim.org/entry/601609
HADHA	2p23.3	https://www.omim.org/entry/600890
HADHB	2p23.3	https://www.omim.org/entry/143450
HAL	12q23.1	
HAMP	19q13.12	https://www.omim.org/entry/606464
HAND1	5q33.2	
HARS1	5q31.3	https://www.omim.org/entry/142810
HAVCR1	5q33.3	
HAVCR2	5q33.3	https://www.omim.org/entry/606652
HAX1	1q21.3	https://www.omim.org/entry/605998

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HBA2	16p13.3	https://www.omim.org/entry/141850
HBB	11p15.4	https://www.omim.org/entry/141900
HBD	11p15.4	https://www.omim.org/entry/142000
HBG1	11p15.4	https://www.omim.org/entry/142200
HBG2	11p15.4	https://www.omim.org/entry/142250
HCCS	Xp22.2	https://www.omim.org/entry/300056
HCFC1	Xq28	https://www.omim.org/entry/300019
HCK	20q11.21	https://www.omim.org/entry/142370
HCN1	5p12	https://www.omim.org/entry/602780
HCN2	19p13.3	https://www.omim.org/entry/602781
HCN4	15q24.1	https://www.omim.org/entry/605206
HDAC3	5q31.3	
HDAC4	2q37.3	https://www.omim.org/entry/605314
HDAC6	Xp11.23	
HDAC8	Xq13.1	https://www.omim.org/entry/300269
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HECW2	2q32.3	https://www.omim.org/entry/617245
HELLS	10q23.33	https://www.omim.org/entry/603946
HEPACAM	11q24.2	https://www.omim.org/entry/611642
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HERC2	15q13.1	https://www.omim.org/entry/605837
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HESX1	3p14.3	https://www.omim.org/entry/601802
HEXA	15q23	https://www.omim.org/entry/606869
HEXB	5q13.3	https://www.omim.org/entry/606873
HFE	6p22.2	https://www.omim.org/entry/613609
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HGF	7q21.11	https://www.omim.org/entry/142409
HGSNAT	8p11.21-p11.1	https://www.omim.org/entry/610453
HHAT	1q32.2	https://www.omim.org/entry/605743
HIBCH	2q32.2	https://www.omim.org/entry/610690
HID1	17q25.1	https://www.omim.org/entry/605752
HIF1A	14q23.2	
HIKESHI	11q14.2	https://www.omim.org/entry/614908
HINT1	5q23.3	https://www.omim.org/entry/601314
HIRA	22q11.21	
HIVEP2	6q24.2	https://www.omim.org/entry/143054
HJV	1q21.1	https://www.omim.org/entry/608374
HK1	10q22.1	https://www.omim.org/entry/142600
HKDC1	10q22.1	https://www.omim.org/entry/617221
HLA-A	6p22.1	
HLA-B	6p21.33	
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HLCS	21q22.13	https://www.omim.org/entry/609018
HMBS	11q23.3	https://www.omim.org/entry/609806
HMGA2	12q14.3	https://www.omim.org/entry/600698
HMGB1	13q12.3	

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HMGCS1	5p12	
HMGCS2	1p12	https://www.omim.org/entry/600234
HMOX1	22q12.3	https://www.omim.org/entry/141250
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HNF4A	20q13.12	https://www.omim.org/entry/600281
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HOXA13	7p15.2	https://www.omim.org/entry/142959
HOXA2	7p15.2	https://www.omim.org/entry/604685
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HOXB13	17q21.32	
HOXC13	12q13.13	https://www.omim.org/entry/142976
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HOXD13	2q31.1	https://www.omim.org/entry/142989
HPCA	1p35.1	https://www.omim.org/entry/142622
HPD	12q24.31	https://www.omim.org/entry/609695
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HPGD	4q34.1	https://www.omim.org/entry/601688
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HPS1	10q24.2	https://www.omim.org/entry/604982
HPS3	3q24	https://www.omim.org/entry/606118
HPS4	22q12.1	https://www.omim.org/entry/606682
HPS5	11p15.1	https://www.omim.org/entry/607521
HPS6	10q24.32	https://www.omim.org/entry/607522
HPSE2	10q24.2	https://www.omim.org/entry/613469
HR	8p21.3	https://www.omim.org/entry/602302
HRAS	11p15.5	https://www.omim.org/entry/190020
HRG	3q27.3	https://www.omim.org/entry/142640
HROB	17q21.31	https://www.omim.org/entry/618611
HRURF	8p21.3	https://www.omim.org/entry/619257
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HSD3B2	1p12	https://www.omim.org/entry/613890
HSD3B7	16p11.2	https://www.omim.org/entry/607764
HSF2BP	21q22.3	https://www.omim.org/entry/604554
HSF4	16q22.1	https://www.omim.org/entry/602438
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HSPB8	12q24.23	https://www.omim.org/entry/608014
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HTRA2	2p13.1	https://www.omim.org/entry/606441
HTT	4p16.3	https://www.omim.org/entry/613004
HUWE1	Xp11.22	https://www.omim.org/entry/300697
HYAL1	3p21.31	https://www.omim.org/entry/607071
HYAL2	3p21.31	
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HYLS1	11q24.2	https://www.omim.org/entry/610693
HYOU1	11q23.3	
IARS1	9q22.31	https://www.omim.org/entry/600709
IARS2	1q41	https://www.omim.org/entry/612801
IBA57	1q42.13	https://www.omim.org/entry/615316
ICOS	2q33.2	https://www.omim.org/entry/604558
ICOSLG	21q22.3	
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IDH2	15q26.1	https://www.omim.org/entry/147650
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IDH3B	20p13	https://www.omim.org/entry/604526
IDO1	8p11.21	
IDS	Xq28	https://www.omim.org/entry/300823
IDUA	4p16.3	https://www.omim.org/entry/252800
IER3IP1	18q21.1	https://www.omim.org/entry/609382
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IFNAR1	21q22.11	https://www.omim.org/entry/107450
IFNAR2	21q22.11	https://www.omim.org/entry/602376
IFNE	9p21.3	
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IFNGR1	6q23.3	https://www.omim.org/entry/107470
IFNGR2	21q22.11	https://www.omim.org/entry/147569
IFT122	3q21.3-q22.1	https://www.omim.org/entry/606045
IFT140	16p13.3	https://www.omim.org/entry/614620
IFT172	2p23.3	https://www.omim.org/entry/607386
IFT27	22q12.3	https://www.omim.org/entry/615870
IFT43	14q24.3	https://www.omim.org/entry/614068

IFT52	20q13.12	https://www.omim.org/entry/617094
IFT56	7q34	https://www.omim.org/entry/617453
IFT74	9p21.2	https://www.omim.org/entry/608040
IFT80	3q25.33	https://www.omim.org/entry/611177
IFT81	12q24.11	https://www.omim.org/entry/605489
IGF1	12q23.2	https://www.omim.org/entry/147440
IGF1R	15q26.3	https://www.omim.org/entry/147370
IGF2	11p15.5	https://www.omim.org/entry/147470
IGF2R	6q25.3	https://www.omim.org/entry/147280
IGFALS	16p13.3	https://www.omim.org/entry/601489
IGFBP7	4q12	https://www.omim.org/entry/602867
IGHMBP2	11q13.3	https://www.omim.org/entry/600502
IGLL1	22q11.23	https://www.omim.org/entry/146770
IGSF1	Xq26.1	https://www.omim.org/entry/300137
IGSF10	3q25.1	
IHH	2q35	https://www.omim.org/entry/600726
IKBB	8p11.21	https://www.omim.org/entry/603258
IKBKG	Xq28	https://www.omim.org/entry/300248
IKZF1	7p12.2	https://www.omim.org/entry/603023
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IKZF3	17q12-q21.1	
IKZF5	10q26.13	https://www.omim.org/entry/606238
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IL10RA	11q23.3	https://www.omim.org/entry/146933
IL10RB	21q22.11	https://www.omim.org/entry/123889
IL11RA	9p13.3	https://www.omim.org/entry/600939
IL12B	5q33.3	https://www.omim.org/entry/161561
IL12RB1	19p13.11	https://www.omim.org/entry/601604
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IL17F	6p12.2	
IL17RA	22q11.1	https://www.omim.org/entry/605461
IL17RC	3p25.3	https://www.omim.org/entry/610925
IL17RD	3p14.3	https://www.omim.org/entry/606807
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IL2RG	Xq13.1	https://www.omim.org/entry/308380
IL36RN	2q14.1	https://www.omim.org/entry/605507
IL37	2q14.1	
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IL6ST	5q11.2	https://www.omim.org/entry/600694
IL7	8q21.13	

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ILDR1	3q13.33	https://www.omim.org/entry/609739
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IMPDH1	7q32.1	https://www.omim.org/entry/146690
IMPDH2	3p21.31	
INF2	14q32.33	https://www.omim.org/entry/610982
ING1	13q34	https://www.omim.org/entry/601566
INHA	2q35	
INO80	15q15.1	
INPP4A	2q11.2	
INPP5E	9q34.3	https://www.omim.org/entry/613037
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INPPL1	11q13.4	https://www.omim.org/entry/600829
INS	11p15.5	https://www.omim.org/entry/176730
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INSR	19p13.2	https://www.omim.org/entry/147670
INTS1	7p22.3	https://www.omim.org/entry/611345
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INTS13	12p11.23	
INTU	4q28.1	
INVS	9q31.1	https://www.omim.org/entry/243305
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IPP	1p34.1	
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IQSEC2	Xp11.22	https://www.omim.org/entry/300522
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IRF9	14q12	https://www.omim.org/entry/147574
IRS1	2q36.3	
IRS4	Xq22.3	https://www.omim.org/entry/300904
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ISCA1	9q21.33	https://www.omim.org/entry/611006
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ISCU	12q23.3	https://www.omim.org/entry/611911
ISG15	1p36.33	https://www.omim.org/entry/147571

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ITGA8	10p13	https://www.omim.org/entry/604063
ITGAE	17p13.2	
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ITM2B	13q14.2	https://www.omim.org/entry/603904
ITPA	20p13	https://www.omim.org/entry/147520
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JAM3	11q25	https://www.omim.org/entry/606871
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KRT6B	12q13.13	https://www.omim.org/entry/148042
KRT6C	12q13.13	https://www.omim.org/entry/612315
KRT74	12q13.13	https://www.omim.org/entry/608248
KRT8	12q13.13	
KRT81	12q13.13	https://www.omim.org/entry/602153
KRT83	12q13.13	https://www.omim.org/entry/602765
KRT85	12q13.13	https://www.omim.org/entry/602767
KRT86	12q13	https://www.omim.org/entry/601928
KRT9	17q21.2	https://www.omim.org/entry/607606
KSR2	12q24.22-q24.23	
KY	3q22.2	https://www.omim.org/entry/605739
KYNU	2q22.2	https://www.omim.org/entry/605197
L1CAM	Xq28	https://www.omim.org/entry/308840
L2HGDH	14q21.3	https://www.omim.org/entry/609584
L3MBTL1	20q13.12	
LACC1	13q14.11	https://www.omim.org/entry/613409
LAG3	12p13.31	
LAGE3	Xq28	https://www.omim.org/entry/300060
LAMA1	18p11.31	https://www.omim.org/entry/150320
LAMA2	6q22.33	https://www.omim.org/entry/156225
LAMA3	18q11.2	https://www.omim.org/entry/600805
LAMA4	6q21	https://www.omim.org/entry/600133
LAMA5	20q13.33	https://www.omim.org/entry/601033
LAMB1	7q31.1	https://www.omim.org/entry/150240
LAMB2	3p21.31	https://www.omim.org/entry/150325
LAMB3	1q32.2	https://www.omim.org/entry/150310
LAMC2	1q25.3	https://www.omim.org/entry/150292
LAMC3	9q34.12	https://www.omim.org/entry/604349
LAMP2	Xq24	https://www.omim.org/entry/309060
LAMTOR2	1q22	https://www.omim.org/entry/610389
LARGE1	22q12.3	https://www.omim.org/entry/603590
LARP1	5q33.2	
LARP7	4q25	https://www.omim.org/entry/612026
LARS1	5q32	
LAS1L	Xq12	https://www.omim.org/entry/300964
LAT	16p11.2	https://www.omim.org/entry/602354
LBR	1q42.12	https://www.omim.org/entry/600024
LCA5	6q14.1	https://www.omim.org/entry/611408
LCAT	16q22.1	https://www.omim.org/entry/606967
LCK	1p35.2	https://www.omim.org/entry/153390
LCP2	5q35.1	https://www.omim.org/entry/601603
LCT	2q21.3	https://www.omim.org/entry/603202
LDB3	10q23.2	https://www.omim.org/entry/605906
LDHA	11p15.1	https://www.omim.org/entry/150000
LDHB	12p12.1	
LDHD	16q23.1	https://www.omim.org/entry/607490
LDLR	19p13.2	https://www.omim.org/entry/606945
LDLRAP1	1p36.11	https://www.omim.org/entry/605747

LEF1	4q25	
LEMD2	6p21.31	https://www.omim.org/entry/616312
LEMD3	12q14.3	https://www.omim.org/entry/607844
LEO1	15q21.2	
LEP	7q32.1	https://www.omim.org/entry/164160
LEPR	1p31.3	https://www.omim.org/entry/601007
LETM1	4p16.3	https://www.omim.org/entry/604407
LFNG	7p22.3	https://www.omim.org/entry/602576
LGI1	10q23.33	https://www.omim.org/entry/604619
LGI3	8p21.3	https://www.omim.org/entry/608302
LGI4	19q13.12	https://www.omim.org/entry/608303
LGR4	11p14.1	https://www.omim.org/entry/606666
LHB	19q13.33	https://www.omim.org/entry/152780
LHCGR	2p16.3	https://www.omim.org/entry/152790
LHFPL5	6p21.31	https://www.omim.org/entry/609427
LHX2	9q33.3	
LHX3	9q34.3	https://www.omim.org/entry/600577
LHX4	1q25.2	https://www.omim.org/entry/602146
LHX8	1p31.1	
LIAS	4p14	https://www.omim.org/entry/607031
LIFR	5p13.1	https://www.omim.org/entry/151443
LIG1	19q13.33	https://www.omim.org/entry/126391
LIG3	17q12	https://www.omim.org/entry/600940
LIG4	13q33.3	https://www.omim.org/entry/601837
LIM2	19q13.41	https://www.omim.org/entry/154045
LINGO1	15q24.3	https://www.omim.org/entry/609791
LINGO4	1q21.3	
LINS1	15q26.3	https://www.omim.org/entry/610350
LIPA	10q23.31	https://www.omim.org/entry/613497
LIPC	15q21.3	https://www.omim.org/entry/151670
LIPE	19q13.2	https://www.omim.org/entry/151750
LIPG	18q21.1	
LIPH	3q27.2	https://www.omim.org/entry/607365
LIPN	10q23.31	https://www.omim.org/entry/613924
LIPT1	2q11.2	https://www.omim.org/entry/610284
LIPT2	11q13.4	https://www.omim.org/entry/617659
LITAF	16p13.13	https://www.omim.org/entry/603795
LMAN1	18q21.32	https://www.omim.org/entry/601567
LMBR1	7q36.3	https://www.omim.org/entry/605522
LMBRD1	6q13	https://www.omim.org/entry/612625
LMBRD2	5p13.2	https://www.omim.org/entry/619490
LMF1	16p13.3	https://www.omim.org/entry/611761
LMNA	1q22	https://www.omim.org/entry/150330
LMNB1	5q23.2	https://www.omim.org/entry/150340
LMNB2	19p13.3	https://www.omim.org/entry/150341
LMOD1	1q32.1	
LMOD2	7q31.32	https://www.omim.org/entry/608006
LMOD3	3p14.1	https://www.omim.org/entry/616112
LMX1A	1q23.3	https://www.omim.org/entry/600298
LMX1B	9q33.3	https://www.omim.org/entry/602575

LNPK	2q31.1	https://www.omim.org/entry/610236
LONP1	19p13.2	https://www.omim.org/entry/605490
LORICRIN	1q21.3	https://www.omim.org/entry/152445
LOX	5q23.1	https://www.omim.org/entry/153455
LOXHD1	18q21.1	https://www.omim.org/entry/613072
LOXL1	15q24.1	
LOXL3	2p13.1	https://www.omim.org/entry/607163
LPAR6	13q14.2	https://www.omim.org/entry/609239
LPIN1	2p25.1	https://www.omim.org/entry/605518
LPIN2	18p11.31	https://www.omim.org/entry/605519
LPL	8p21.3	https://www.omim.org/entry/609708
LPP	3q27.3-q28	https://www.omim.org/entry/600700
LRBA	4q31.3	https://www.omim.org/entry/606453
LRIG2	1p13.2	https://www.omim.org/entry/608869
LRIT3	4q25	https://www.omim.org/entry/615004
LRMDA	10q22.2-q22.3	https://www.omim.org/entry/614537
LRP1	12q13.3	https://www.omim.org/entry/107770
LRP10	14q11.2	
LRP12	8q22.3	https://www.omim.org/entry/618299
LRP1B	2q22.1-q22.2	
LRP2	2q31.1	https://www.omim.org/entry/600073
LRP4	11p11.2	https://www.omim.org/entry/604270
LRP6	12p13.2	https://www.omim.org/entry/603507
LRPAP1	4p16.3	https://www.omim.org/entry/104225
LRPPRC	2p21	https://www.omim.org/entry/607544
LRRC23	12p13.31	https://www.omim.org/entry/620708
LRRC32	11q13.5	https://www.omim.org/entry/137207
LRRC56	11p15.5	https://www.omim.org/entry/618227
LRRC7	1p31.1	
LRRFIP2	3p22.2	
LRRK1	15q26.3	https://www.omim.org/entry/610986
LRRK2	12q12	
LRSAM1	9q33.3-q34.1	https://www.omim.org/entry/610933
LRTOMT	11q13.4	https://www.omim.org/entry/612414
LSS	21q22.3	https://www.omim.org/entry/600909
LTBP1	2p22.3	https://www.omim.org/entry/150390
LTBP2	14q24.3	https://www.omim.org/entry/602091
LTBP3	11q13.1	https://www.omim.org/entry/602090
LTBP4	19q13.2	https://www.omim.org/entry/604710
LTV1	6q24.2	https://www.omim.org/entry/620074
LYN	8q12.1	https://www.omim.org/entry/165120
LYRM4	6p25.1	
LYRM7	5q23.3-q31.1	https://www.omim.org/entry/615831
LYSET	14q32.12	https://www.omim.org/entry/619332
LYST	1q42.3	https://www.omim.org/entry/606897
LYZ	12q15	https://www.omim.org/entry/153450
LZTFL1	3p21.31	https://www.omim.org/entry/606568
LZTR1	22q11.21	https://www.omim.org/entry/600574
LZTS1	8p21.3	https://www.omim.org/entry/606551
M1AP	2p13.1	https://www.omim.org/entry/619098

MAB21L1	13q13.3	https://www.omim.org/entry/601280
MAB21L2	4q31.3	https://www.omim.org/entry/604357
MACF1	1p34.3	https://www.omim.org/entry/608271
MAD1L1	7p22.3	https://www.omim.org/entry/602686
MAD2L2	1p36.22	
MADD	11p11.2	https://www.omim.org/entry/603584
MAF	16q23.2	https://www.omim.org/entry/177075
MAFA	8q24.3	https://www.omim.org/entry/610303
MAFB	20q12	https://www.omim.org/entry/608968
MAG	19q13.1	https://www.omim.org/entry/159460
MAGED2	Xp11.21	https://www.omim.org/entry/300470
MAGEL2	15q11.2	https://www.omim.org/entry/605283
MAGI2	7q21.11	https://www.omim.org/entry/606382
MAGT1	Xq21.1	https://www.omim.org/entry/300715
MAK	6p24.2	https://www.omim.org/entry/154235
MALT1	18q21.32	https://www.omim.org/entry/604860
MAML2	11q21	https://www.omim.org/entry/607537
MAN1B1	9q34.3	https://www.omim.org/entry/604346
MAN2B1	19p13.13	https://www.omim.org/entry/609458
MAN2C1	15q24.2	https://www.omim.org/entry/154580
MANBA	4q24	https://www.omim.org/entry/609489
MANF	3p21.2	https://www.omim.org/entry/601916
MAOA	Xp11.3	https://www.omim.org/entry/309850
MAP1B	5q13.2	https://www.omim.org/entry/157129
MAP2K1	15q22.31	https://www.omim.org/entry/176872
MAP2K2	19p13.3	https://www.omim.org/entry/601263
MAP3K14	17q21.31	https://www.omim.org/entry/604655
MAP3K20	2q31.1	https://www.omim.org/entry/609479
MAP3K3	17q23.3	
MAP3K6	1p36.11	
MAP3K7	6q15	https://www.omim.org/entry/602614
MAP3K8	10p11.23	https://www.omim.org/entry/191195
MAP4K4	2q11.2	
MAPK1	22q11.22	https://www.omim.org/entry/176948
MAPK8IP3	16p13.3	https://www.omim.org/entry/605431
MAPKAPK5	12q24.12-q24	https://www.omim.org/entry/606723
MAPKBP1	15q15.1	https://www.omim.org/entry/616786
MAPRE2	18q12.1-q12.1	https://www.omim.org/entry/605789
MAPT	17q21.31	https://www.omim.org/entry/157140
MARCHF6	5p15.2	https://www.omim.org/entry/613297
MARK2	11q13.1	
MARS1	12q13.3	https://www.omim.org/entry/156560
MARS2	2q33.1	https://www.omim.org/entry/609728
MARVELD2	5q13.2	https://www.omim.org/entry/610572
MASP1	3q27.3	https://www.omim.org/entry/600521
MASP2	1p36.22	https://www.omim.org/entry/605102
MAST1	19p13.13	https://www.omim.org/entry/612256
MAST3	19p13.11	https://www.omim.org/entry/612258
MAST4	5q12.3	
MAT1A	10q22.3	https://www.omim.org/entry/610550

MATN3	2p24.1	https://www.omim.org/entry/602109
MATR3	5q31.2	https://www.omim.org/entry/164015
MB	22q12.3	https://www.omim.org/entry/160000
MBD4	3q21.3	https://www.omim.org/entry/603574
MBD5	2q23.1	https://www.omim.org/entry/611472
MBOAT7	19q13.42	https://www.omim.org/entry/606048
MBTPS1	16q23.3-q24.1	
MBTPS2	Xp22.12	https://www.omim.org/entry/300294
MC1R	16q24.3	
MC2R	18p11.21	https://www.omim.org/entry/607397
MC3R	20q13.2	
MC4R	18q21.32	https://www.omim.org/entry/155541
MCAT	22q13.2	https://www.omim.org/entry/614479
MCC	5q22.2	https://www.omim.org/entry/159350
MCCC1	3q27.1	https://www.omim.org/entry/609010
MCCC2	5q13.2	https://www.omim.org/entry/609014
MCEE	2p13.3	https://www.omim.org/entry/608419
MCFD2	2p21	https://www.omim.org/entry/607788
MCIDAS	5q11.2	https://www.omim.org/entry/614086
MCM10	10p13	https://www.omim.org/entry/609357
MCM3AP	21q22.3	https://www.omim.org/entry/603294
MCM4	8q11.21	https://www.omim.org/entry/602638
MCM6	2q21.3	https://www.omim.org/entry/601806
MCM7	7q22.1	
MCM9	6q22.31	https://www.omim.org/entry/610098
MCOLN1	19p13.2	https://www.omim.org/entry/605248
MCPH1	8p23.1	https://www.omim.org/entry/607117
MCTS1	Xq24	https://www.omim.org/entry/300587
MDFIC	7q31.1-q31.2	https://www.omim.org/entry/614511
MDH2	7q11.23	https://www.omim.org/entry/154100
MDM2	12q15	
MECOM	3q26.2	https://www.omim.org/entry/165215
MECP2	Xq28	https://www.omim.org/entry/300005
MECR	1p35.3	https://www.omim.org/entry/608205
MED11	17p13.2	https://www.omim.org/entry/612383
MED12	Xq13.1	https://www.omim.org/entry/300188
MED12L	3q25.1	https://www.omim.org/entry/611318
MED13	17q23.2	https://www.omim.org/entry/603808
MED13L	12q24.21	https://www.omim.org/entry/608771
MED16	19p13.3	
MED17	11q21	https://www.omim.org/entry/603810
MED23	6q23.2	https://www.omim.org/entry/605042
MED25	19q13.33	https://www.omim.org/entry/610197
MED27	9q34.13	https://www.omim.org/entry/605044
MEF2C	5q14.3	https://www.omim.org/entry/600662
MEFV	16p13.3	https://www.omim.org/entry/608107
MEG3	14q32.2	
MEGF10	5q23.2	https://www.omim.org/entry/612453
MEGF8	19q13.2	https://www.omim.org/entry/604267
MEI1	22q13.2	https://www.omim.org/entry/608797

MEI4	6q14.1	
MEIOB	16p13.3	https://www.omim.org/entry/617670
MEIS2	15q14	https://www.omim.org/entry/601740
MEN1	11q13	https://www.omim.org/entry/613733
MEOX1	17q21.31	https://www.omim.org/entry/600147
MERTK	2q13	https://www.omim.org/entry/604705
MESD	15q25.1	https://www.omim.org/entry/607783
MESP2	15q26.1	https://www.omim.org/entry/605195
MEST	7q32.2	
MET	7q31.2	https://www.omim.org/entry/164860
METTL23	17q25.2	https://www.omim.org/entry/615262
METTL5	2q31.1	https://www.omim.org/entry/618628
MFAP5	12p13.31	https://www.omim.org/entry/601103
MFF	2q36.3	https://www.omim.org/entry/614785
MFN2	1p36.22	https://www.omim.org/entry/608507
MFRP	11q23.3	https://www.omim.org/entry/606227
MFSD2A	1p34.2	https://www.omim.org/entry/614397
MFSD8	4q28.2	https://www.omim.org/entry/611124
MGAT2	14q21.3	https://www.omim.org/entry/602616
MGME1	20p11.23	https://www.omim.org/entry/615076
MGMT	10q26.3	
MGP	12p12.3	https://www.omim.org/entry/154870
MIB1	18q11.2	https://www.omim.org/entry/608677
MICOS13	19p13.3	https://www.omim.org/entry/616658
MICU1	10q22.1	https://www.omim.org/entry/605084
MID1	Xp22.2	https://www.omim.org/entry/300552
MID2	Xq22.3	
MIEF1	22q13.1	https://www.omim.org/entry/615497
MINAR2	5q23.3	https://www.omim.org/entry/620215
MINPP1	10q23.2	https://www.omim.org/entry/605391
MIP	12q13.3	https://www.omim.org/entry/154050
MIPEP	13q12.12	https://www.omim.org/entry/602241
MIR140	16q22.1	https://www.omim.org/entry/611894
MIR17HG	13q31.3	
MIR184	15q25.1	https://www.omim.org/entry/613146
MIR204	9q21.12	https://www.omim.org/entry/610942
MIR96	7q32.2	https://www.omim.org/entry/611606
MITF	3p13	https://www.omim.org/entry/156845
MKKS	20p12.2	https://www.omim.org/entry/604896
MKRN3	15q11.2	https://www.omim.org/entry/603856
MKS1	17q22	https://www.omim.org/entry/609883
MLC1	22q13.33	https://www.omim.org/entry/605908
MLH3	14q24.3	https://www.omim.org/entry/604395
MLIP	6p12.1	https://www.omim.org/entry/614106
MLLT10	10p12.31	https://www.omim.org/entry/602409
MLPH	2q37.3	https://www.omim.org/entry/606526
MLYCD	16q23.3	https://www.omim.org/entry/606761
MMAA	4q31.21	https://www.omim.org/entry/607481
MMAB	12q24.11	https://www.omim.org/entry/607568
MMACHC	1p34.1	https://www.omim.org/entry/609831

MMADHC	2q23.2	https://www.omim.org/entry/611935
MME	3q25.2	https://www.omim.org/entry/120520
MMGT1	Xq26.3	
MMP13	11q22.2	https://www.omim.org/entry/600108
MMP14	14q11.2	https://www.omim.org/entry/600754
MMP19	12q13.2	https://www.omim.org/entry/601807
MMP2	16q12.2	https://www.omim.org/entry/120360
MMP20	11q22.2	https://www.omim.org/entry/604629
MMP21	10q26.2	https://www.omim.org/entry/608416
MMP9	20q13.12	https://www.omim.org/entry/120361
MMUT	6p12.3	https://www.omim.org/entry/609058
MN1	22q12.1	https://www.omim.org/entry/156100
MNS1	15q21.3	https://www.omim.org/entry/610766
MNX1	7q36.3	https://www.omim.org/entry/142994
MOCOS	18q12.2	https://www.omim.org/entry/613274
MOCS1	6p21.2	https://www.omim.org/entry/603707
MOCS2	5q11.2	https://www.omim.org/entry/603708
MOGS	2p13.1	https://www.omim.org/entry/601336
MORC2	22q12.2	https://www.omim.org/entry/616661
MOS	8q12.1	https://www.omim.org/entry/190060
MOV10L1	22q13.33	
MPC1	6q27	https://www.omim.org/entry/614738
MPDU1	17p13.1	https://www.omim.org/entry/604041
MPDZ	9p23	https://www.omim.org/entry/603785
MPEG1	11q12.1	https://www.omim.org/entry/610390
MPI	15q24.1	https://www.omim.org/entry/154550
MPIG6B	6p21.33	
MPL	1p34.2	https://www.omim.org/entry/159530
MPLKIP	7p14.1	https://www.omim.org/entry/609188
MPO	17q22	https://www.omim.org/entry/606989
MPV17	2p23.3	https://www.omim.org/entry/137960
MPZ	1q23.3	https://www.omim.org/entry/159440
MPZL2	11q23.3	https://www.omim.org/entry/604873
MRAP	21q22.11	https://www.omim.org/entry/609196
MRAP2	6q14.2	
MRAS	3q22.3	https://www.omim.org/entry/608435
MRE11	11q21	https://www.omim.org/entry/600814
MRM2	7p22.3	https://www.omim.org/entry/606906
MRPL3	3q22.1	https://www.omim.org/entry/607118
MRPL39	21q21.3	https://www.omim.org/entry/611845
MRPL44	2q36.1	https://www.omim.org/entry/611849
MRPL49	11q13.1	
MRPS16	10q22.2	https://www.omim.org/entry/609204
MRPS2	9q34.3	https://www.omim.org/entry/611971
MRPS22	3q23	https://www.omim.org/entry/605810
MRPS23	17q22	
MRPS34	16p13.3	https://www.omim.org/entry/611994
MS4A1	11q12.2	
MSH4	1p31.1	https://www.omim.org/entry/602105
MSH5	6p21.33	https://www.omim.org/entry/603382

MSL2	3q22.3	https://www.omim.org/entry/614802
MSL3	Xp22.2	https://www.omim.org/entry/300609
MSMB	10q11.22	
MSMO1	4q32.3	https://www.omim.org/entry/607545
MSN	Xq12	https://www.omim.org/entry/309845
MSR1	8p22	https://www.omim.org/entry/153622
MSRB3	12q14.3	https://www.omim.org/entry/613719
MST1R	3p21.31	
MSTO1	1q22	https://www.omim.org/entry/617619
MSX1	4p16.2	https://www.omim.org/entry/142983
MSX2	5q35.2	https://www.omim.org/entry/123101
MTAP	9p21.3	https://www.omim.org/entry/156540
MT-ATP6	mitochondria	
MT-ATP8	mitochondria	
MTCL1	18p11.22	
MT-CO1	mitochondria	
MT-CO2	mitochondria	
MT-CO3	mitochondria	
MT-CYB	mitochondria	
MTFMT	15q22.31	https://www.omim.org/entry/611766
MTHFD1	14q23.3	https://www.omim.org/entry/172460
MTHFR	1p36.22	https://www.omim.org/entry/607093
MTHFS	15q25.1	https://www.omim.org/entry/604197
MTM1	Xq28	https://www.omim.org/entry/300415
MTMR2	11q21	https://www.omim.org/entry/603557
MT-ND1	mitochondria	
MT-ND2	mitochondria	
MT-ND3	mitochondria	
MT-ND4	mitochondria	
MT-ND4L	mitochondria	
MT-ND5	mitochondria	
MT-ND6	mitochondria	
MTNR1B	11q14.3	
MTO1	6q13	https://www.omim.org/entry/614667
MTOR	1p36.22	https://www.omim.org/entry/601231
MTPAP	10p11.23	
MTR	1q43	https://www.omim.org/entry/156570
MTRFR	12q24.31	https://www.omim.org/entry/613541
MT-RNR1	mitochondria	
MTRR	5p15.31	https://www.omim.org/entry/602568
MTSS2	16q22.1	https://www.omim.org/entry/616951
MT-TA	mitochondria	
MT-TC	mitochondria	
MT-TD	mitochondria	
MT-TE	mitochondria	
MT-TF	mitochondria	
MT-TG	mitochondria	
MT-TH	mitochondria	
MT-TI	mitochondria	
MT-TK	mitochondria	

MT-TL1	mitochondria	
MT-TL2	mitochondria	
MT-TM	mitochondria	
MT-TN	mitochondria	
MTPP	4q23	https://www.omim.org/entry/157147
MT-TP	mitochondria	
MT-TQ	mitochondria	
MT-TR	mitochondria	
MT-TS1	mitochondria	
MT-TS2	mitochondria	
MT-TT	mitochondria	
MT-TV	mitochondria	
MT-TW	mitochondria	
MT-TY	mitochondria	
MTX2	2q31.1	https://www.omim.org/entry/608555
MUC1	1q22	https://www.omim.org/entry/158340
MUC16	19p13.2	
MUC5B	11p15.5	
MUSK	9q31.3	https://www.omim.org/entry/601296
MVD	16q24.2	https://www.omim.org/entry/603236
MVK	12q24.11	https://www.omim.org/entry/251170
MX1	21q22.3	
MXI1	10q25.2	https://www.omim.org/entry/600020
MYBBP1A	17p13.2	
MYBPC1	12q23.2	https://www.omim.org/entry/160794
MYBPC3	11p11.2	https://www.omim.org/entry/600958
MYC	8q24.21	https://www.omim.org/entry/190080
MYCBP2	13q22.3	
MYCN	2p24.3	https://www.omim.org/entry/164840
MYD88	3p22.2	https://www.omim.org/entry/602170
MYF5	12q21.31	https://www.omim.org/entry/159990
MYH1	17p13.1	
MYH10	17p13.1	
MYH14	19q13.33	https://www.omim.org/entry/608568
MYH2	17p13.1	https://www.omim.org/entry/160740
MYH3	17p13.1	https://www.omim.org/entry/160720
MYH6	14q11.2	https://www.omim.org/entry/160710
MYH7	14q11.2	https://www.omim.org/entry/160760
MYH7B	20q11.22	
MYH8	17p13.1	https://www.omim.org/entry/160741
MYH9	22q12.3	https://www.omim.org/entry/160775
MYL1	2q34	https://www.omim.org/entry/160780
MYL11	16p11.2	https://www.omim.org/entry/617378
MYL2	12q24.11	https://www.omim.org/entry/160781
MYL3	3p21.31	https://www.omim.org/entry/160790
MYL4	17q21.32	
MYL9	20q11.23	
MYLK2	20q11.21	https://www.omim.org/entry/606566
MYLK3	16q11.2	
MYMK	9q34.2	https://www.omim.org/entry/615345

MYO15A	17p11.2	https://www.omim.org/entry/602666
MYO18B	22q12.1	https://www.omim.org/entry/607295
MYO1A	12q13.3	
MYO1E	15q22.2	https://www.omim.org/entry/601479
MYO3A	10p12.1	https://www.omim.org/entry/606808
MYO5A	15q21.2	https://www.omim.org/entry/160777
MYO5B	18q21.1	https://www.omim.org/entry/606540
MYO6	6q14.1	https://www.omim.org/entry/600970
MYO9A	15q23	https://www.omim.org/entry/604875
MYOC	1q24.3	https://www.omim.org/entry/601652
MYOCD	17p12	https://www.omim.org/entry/606127
MYOD1	11p15.1	https://www.omim.org/entry/159970
MYOM1	18p11.31	
MYORG	9p13.3	https://www.omim.org/entry/618255
MYOT	5q31.2	https://www.omim.org/entry/604103
MYOZ2	4q26	https://www.omim.org/entry/605602
MYPN	10q21.3	https://www.omim.org/entry/608517
MYRF	11q12.2	https://www.omim.org/entry/608329
MYSM1	1p32.1	https://www.omim.org/entry/612176
MYT1	20q13.33	
MYT1L	2p25.3	https://www.omim.org/entry/613084
MYZAP	15q21.3	https://www.omim.org/entry/614071
NAA10	Xq28	https://www.omim.org/entry/300013
NAA15	4q31.1	https://www.omim.org/entry/608000
NAA20	20p11.23	https://www.omim.org/entry/610833
NAA60	16p13.3	https://www.omim.org/entry/614246
NABP1	2q32.3	
NACC1	19p13.13	https://www.omim.org/entry/610672
NADK2	5p13.2	https://www.omim.org/entry/615787
NADSYN1	11q13.4	https://www.omim.org/entry/608285
NAE1	16q22.1	https://www.omim.org/entry/603385
NAF1	4q32.2	https://www.omim.org/entry/617868
NAGA	22q13.2	https://www.omim.org/entry/104170
NAGLU	17q21.2	https://www.omim.org/entry/609701
NAGS	17q21.31	https://www.omim.org/entry/608300
NALCN	13q32.3-q33.	https://www.omim.org/entry/611549
NANOS1	10q26.11	https://www.omim.org/entry/608226
NANS	9q22.33	https://www.omim.org/entry/605202
NAPB	20p11.21	https://www.omim.org/entry/611270
NARS1	18q21.31	https://www.omim.org/entry/108410
NARS2	11q14.1	https://www.omim.org/entry/612803
NAXD	13q34	https://www.omim.org/entry/615910
NAXE	1q22	https://www.omim.org/entry/608862
NBAS	2p24.3	https://www.omim.org/entry/608025
NBEA	13q13.3	https://www.omim.org/entry/604889
NBEAL2	3p21.31	https://www.omim.org/entry/614169
NBN	8q21.3	https://www.omim.org/entry/602667
NCAPD2	12p13.31	https://www.omim.org/entry/615638
NCAPD3	11q25	https://www.omim.org/entry/609276
NCAPG2	7q36.3	https://www.omim.org/entry/608532

NCDN	1p34.3	https://www.omim.org/entry/608458
NCF1	7q11.23	https://www.omim.org/entry/608512
NCF2	1q25.3	https://www.omim.org/entry/608515
NCF4	22q12.3	https://www.omim.org/entry/601488
NCKAP1	2q32.1	
NCKAP1L	12q13.13-q13	https://www.omim.org/entry/141180
NCOA4	10q11.22	
NCOR1	17p12-p11.2	
NCSTN	1q23.2	https://www.omim.org/entry/605254
NDC1	1p32.3	
NDE1	16p13.11	https://www.omim.org/entry/609449
NDNF	4q27	https://www.omim.org/entry/616506
NDP	Xp11.3	https://www.omim.org/entry/300658
NDRG1	8q24.22	https://www.omim.org/entry/605262
NDST1	5q33.1	https://www.omim.org/entry/600853
NDUFA1	Xq24	https://www.omim.org/entry/300078
NDUFA10	2q37.3	https://www.omim.org/entry/603835
NDUFA11	19p13.3	https://www.omim.org/entry/612638
NDUFA12	12q22	https://www.omim.org/entry/614530
NDUFA13	19p13.11	https://www.omim.org/entry/609435
NDUFA2	5q31.3	https://www.omim.org/entry/602137
NDUFA4	7p21.3	
NDUFA6	22q13.2	https://www.omim.org/entry/602138
NDUFA8	9q33.2	https://www.omim.org/entry/603359
NDUFA9	12p13.3	https://www.omim.org/entry/603834
NDUFAF1	15q15.1	https://www.omim.org/entry/606934
NDUFAF2	5q12.1	https://www.omim.org/entry/609653
NDUFAF3	3p21.31	https://www.omim.org/entry/612911
NDUFAF4	6q16.1	https://www.omim.org/entry/611776
NDUFAF5	20p12.1	https://www.omim.org/entry/612360
NDUFAF6	8q22.1	https://www.omim.org/entry/612392
NDUFAF8	17q25.3	https://www.omim.org/entry/618461
NDUFB10	16p13.3	
NDUFB11	Xp11.3	https://www.omim.org/entry/300403
NDUFB3	2q33.1	https://www.omim.org/entry/603839
NDUFB8	10q24.31	https://www.omim.org/entry/602140
NDUFC2	11q14.1	https://www.omim.org/entry/603845
NDUFS1	2q33.3	https://www.omim.org/entry/157655
NDUFS2	1q23.3	https://www.omim.org/entry/602985
NDUFS3	11p11.2	https://www.omim.org/entry/603846
NDUFS4	5q11.2	https://www.omim.org/entry/602694
NDUFS6	5p15.33	https://www.omim.org/entry/603848
NDUFS7	19p13.3	https://www.omim.org/entry/601825
NDUFS8	11q13.2	https://www.omim.org/entry/602141
NDUFV1	11q13.2	https://www.omim.org/entry/161015
NDUFV2	18p11.22	https://www.omim.org/entry/600532
NEB	2q23.3	https://www.omim.org/entry/161650
NEBL	10p12.31	
NECAP1	12p13.31	https://www.omim.org/entry/611623
NECTIN1	11q23.3	https://www.omim.org/entry/600644

NECTIN4	1q23.3	https://www.omim.org/entry/609607
NEDD4L	18q21.31	https://www.omim.org/entry/606384
NEFH	22q12.2	https://www.omim.org/entry/162230
NEFL	8p21.2	https://www.omim.org/entry/162280
NEK1	4q33	https://www.omim.org/entry/604588
NEK10	3p24.1	https://www.omim.org/entry/618726
NEK2	1q32.3	
NEK8	17q11.2	https://www.omim.org/entry/609799
NEK9	14q24.3	https://www.omim.org/entry/609798
NEMF	14q21.3	https://www.omim.org/entry/608378
NEPRO	3q13.2	https://www.omim.org/entry/617089
NEU1	6p21.33	https://www.omim.org/entry/608272
NEURL4	17p13.1	
NEUROD1	2q31.3	https://www.omim.org/entry/601724
NEUROD2	17q12	https://www.omim.org/entry/601725
NEUROG1	5q31.1	https://www.omim.org/entry/601726
NEUROG3	10q22.1	https://www.omim.org/entry/604882
NEXMIF	Xq13.3	https://www.omim.org/entry/300524
NEXN	1p31.1	https://www.omim.org/entry/613121
NF1	17q11.2	https://www.omim.org/entry/613113
NF2	22q12.2	https://www.omim.org/entry/607379
NFASC	1q32.1	https://www.omim.org/entry/609145
NFAT5	16q22.1	
NFATC1	18q23	
NFE2L2	2q31.2	https://www.omim.org/entry/600492
NFIA	1p31.3	https://www.omim.org/entry/600727
NFIB	9p23-p22.3	https://www.omim.org/entry/600728
NFIX	19p13.13	https://www.omim.org/entry/164005
NFKB1	4q24	https://www.omim.org/entry/164011
NFKB2	10q24.32	https://www.omim.org/entry/164012
NFKBIA	14q13.2	https://www.omim.org/entry/164008
NFS1	20q11.22	https://www.omim.org/entry/603485
NFU1	2p13.3	https://www.omim.org/entry/608100
NGF	1p13.2	https://www.omim.org/entry/162030
NGLY1	3p24.2	https://www.omim.org/entry/610661
NHEJ1	2q35	https://www.omim.org/entry/611290
NHERF1	17q25.1	https://www.omim.org/entry/604990
NHLRC1	6p22.3	https://www.omim.org/entry/608072
NHLRC2	10q25.3	https://www.omim.org/entry/618277
NHP2	5q35.3	https://www.omim.org/entry/606470
NHS	Xp22.2-p22.1:	https://www.omim.org/entry/300457
NID1	1q42.3	
NIN	14q22.1	
NIPA1	15q11.2	https://www.omim.org/entry/608145
NIPAL4	5q33.3	https://www.omim.org/entry/609383
NIPBL	5p13.2	https://www.omim.org/entry/608667
NIT1	1q23.3	
NKAP	Xq24	https://www.omim.org/entry/300766
NKX2-1	14q13.3	https://www.omim.org/entry/600635
NKX2-2	20p11.22	

NKX2-5	5q35.1	https://www.omim.org/entry/600584
NKX2-6	8p21.2	https://www.omim.org/entry/611770
NKX3-2	4p15.33	https://www.omim.org/entry/602183
NKX6-2	10q26.3	https://www.omim.org/entry/605955
NLGN1	3q26.31	
NLGN2	17p13.1	
NLGN3	Xq13.1	
NLGN4X	Xp22.32-p22.3	https://www.omim.org/entry/300427
NLRC4	2p22.3	https://www.omim.org/entry/606831
NLRP1	17p13	https://www.omim.org/entry/606636
NLRP12	19q13.42	https://www.omim.org/entry/609648
NLRP2	19q13.42	https://www.omim.org/entry/609364
NLRP3	1q44	https://www.omim.org/entry/606416
NLRP5	19q13.43	https://www.omim.org/entry/609658
NLRP7	19q13.42	https://www.omim.org/entry/609661
NME5	5q31.2	https://www.omim.org/entry/603575
NME8	7p14.1	
NMNAT1	1p36.22	https://www.omim.org/entry/608700
NNT	5p12	https://www.omim.org/entry/607878
NOD2	16q12.1	https://www.omim.org/entry/605956
NODAL	10q22.1	https://www.omim.org/entry/601265
NOG	17q22	https://www.omim.org/entry/602991
NONO	Xq13.1	https://www.omim.org/entry/300084
NOP10	15q14	
NOP56	20p13	https://www.omim.org/entry/614154
NOS1AP	1q23.3	https://www.omim.org/entry/605551
NOS2	17q11.2	
NOTCH1	9q34.3	https://www.omim.org/entry/190198
NOTCH2	1p12	https://www.omim.org/entry/600275
NOTCH3	19p13.12	https://www.omim.org/entry/600276
NOVA2	19q13.32	https://www.omim.org/entry/601991
NPC1	18q11.2	https://www.omim.org/entry/607623
NPC1L1	7p13	
NPC2	14q24.3	https://www.omim.org/entry/601015
NPHP1	2q13	https://www.omim.org/entry/607100
NPHP3	3q22.1	https://www.omim.org/entry/608002
NPHP4	1p36.31	https://www.omim.org/entry/607215
NPHS1	19q13.12	https://www.omim.org/entry/602716
NPHS2	1q25.2	https://www.omim.org/entry/604766
NPM1	5q35.1	https://www.omim.org/entry/164040
NPNT	4q24	
NPPA	1p36.22	https://www.omim.org/entry/108780
NPR1	1q21.3	
NPR2	9p13.3	https://www.omim.org/entry/108961
NPR3	5p13.3	https://www.omim.org/entry/108962
NPRL2	3p21.31	https://www.omim.org/entry/607072
NPRL3	16p13.3	https://www.omim.org/entry/600928
NPTX1	17q25.3	https://www.omim.org/entry/602367
NROB1	Xp21.2	https://www.omim.org/entry/300473
NROB2	1p36.11	https://www.omim.org/entry/604630

NR1H4	12q23.1	https://www.omim.org/entry/603826
NR2E3	15q23	https://www.omim.org/entry/604485
NR2F2	15q26.2	https://www.omim.org/entry/107773
NR3C1	5q31.3	https://www.omim.org/entry/138040
NR3C2	4q31.23	https://www.omim.org/entry/600983
NR4A2	2q24.1	https://www.omim.org/entry/601828
NR4A3	9q31.1	https://www.omim.org/entry/600542
NRAP	10q25.3	
NRAS	1p13.2	https://www.omim.org/entry/164790
NRCAM	7q31.1	https://www.omim.org/entry/601581
NRG1	8p12	
NRGN	11q24.2	
NRL	14q11.2-q12	https://www.omim.org/entry/162080
NRROS	3q29	https://www.omim.org/entry/615322
NRXN1	2p16.3	https://www.omim.org/entry/600565
NRXN2	11q13.1	
NSD1	5q35.3	https://www.omim.org/entry/606681
NSD2	4p16.3	https://www.omim.org/entry/602952
NSDHL	Xq28	https://www.omim.org/entry/300275
NSF	17q21.31	https://www.omim.org/entry/601633
NSMCE2	8q24.13	https://www.omim.org/entry/617246
NSMCE3	15q13.1	https://www.omim.org/entry/608243
NSRP1	17q11.2	https://www.omim.org/entry/616173
NSUN2	5p15.31	https://www.omim.org/entry/610916
NSUN3	3q11.2	https://www.omim.org/entry/617491
NSUN6	10p12.31	https://www.omim.org/entry/617199
NT5C2	10q24.32-q24	https://www.omim.org/entry/600417
NT5C3A	7p14.3	https://www.omim.org/entry/606224
NT5E	6q14.3	https://www.omim.org/entry/129190
NTF4	19q13.33	https://www.omim.org/entry/162662
NTN1	17p13.1	https://www.omim.org/entry/601614
NTNG2	9q34.13	https://www.omim.org/entry/618689
NTRK1	1q23.1	https://www.omim.org/entry/191315
NTRK2	9q21.33	https://www.omim.org/entry/600456
NUBPL	14q12	https://www.omim.org/entry/613621
NUDCD3	7p13	
NUDT15	13q14.2	
NUDT2	9p13.3	https://www.omim.org/entry/602852
NUMA1	11q13.4	
NUP107	12q15	https://www.omim.org/entry/607617
NUP133	1q42.13	https://www.omim.org/entry/607613
NUP160	11p11.2	
NUP188	9q34.11	https://www.omim.org/entry/615587
NUP205	7q33	
NUP210	3p25.1	
NUP214	9q34.13	https://www.omim.org/entry/114350
NUP54	4q21.1	https://www.omim.org/entry/607607
NUP62	19q13.33	https://www.omim.org/entry/605815
NUP85	17q25.1	https://www.omim.org/entry/170285
NUP88	17p13.2	https://www.omim.org/entry/602552

NUP93	16q13	https://www.omim.org/entry/614351
NUS1	6q22.1	https://www.omim.org/entry/610463
NXN	17p13.3	https://www.omim.org/entry/612895
NXNL1	19p13.11	
NYX	Xp11.4	https://www.omim.org/entry/300278
OAS1	12q24.13	https://www.omim.org/entry/164350
OAS2	12q24.13	
OAT	10q26.13	https://www.omim.org/entry/613349
OBSCN	1q42.13	
OBSL1	2q35	https://www.omim.org/entry/610991
OCA2	15q12-q13.1	https://www.omim.org/entry/611409
OCLN	5q13.2	https://www.omim.org/entry/602876
OCRL	Xq26.1	https://www.omim.org/entry/300535
ODAD1	19q13.33	https://www.omim.org/entry/615038
ODAD2	10p12.1	https://www.omim.org/entry/615408
ODAD3	19p13.2	https://www.omim.org/entry/615956
ODAD4	17q21.2	https://www.omim.org/entry/617095
ODAPH	4q21.1	https://www.omim.org/entry/614829
ODC1	2p25.1	https://www.omim.org/entry/165640
OFD1	Xp22.2	https://www.omim.org/entry/300170
OGDH	7p13	https://www.omim.org/entry/613022
OGDHL	10q11.23	https://www.omim.org/entry/617513
OGG1	3p25.3	https://www.omim.org/entry/601982
OGT	Xq13.1	https://www.omim.org/entry/300255
ONECUT1	15q21.3	
OPCML	11q25	https://www.omim.org/entry/600632
OPHN1	Xq12	https://www.omim.org/entry/300127
OPLAH	8q24.3	https://www.omim.org/entry/614243
OPN1LW	Xq28	https://www.omim.org/entry/300822
OPN1MW	Xq28	https://www.omim.org/entry/300821
OPN1SW	7q32.1	https://www.omim.org/entry/613522
OPTN	10p13	https://www.omim.org/entry/602432
ORAI1	12q24.31	https://www.omim.org/entry/610277
ORC1	1p32.3	https://www.omim.org/entry/601902
ORC4	2q23.1	https://www.omim.org/entry/603056
ORC6	16q11.2	https://www.omim.org/entry/607213
OSBPL2	20q13.33	https://www.omim.org/entry/606731
OSGEP	14q11.2	https://www.omim.org/entry/610107
OSMR	5p13.1	https://www.omim.org/entry/601743
OSTM1	6q21	https://www.omim.org/entry/607649
OTC	Xp11.4	https://www.omim.org/entry/300461
OTOA	16p12.2	https://www.omim.org/entry/607038
OTOF	2p23.3	https://www.omim.org/entry/603681
OTOG	11p15.1	https://www.omim.org/entry/604487
OTOGL	12q21.31	https://www.omim.org/entry/614925
OTUD1	10p12.2	
OTUD5	Xp11.23	https://www.omim.org/entry/300713
OTUD6B	8q21.3	https://www.omim.org/entry/612021
OTUD7A	15q13.3	https://www.omim.org/entry/612024
OTULIN	5p15.2	https://www.omim.org/entry/615712

OTX2	14q22.3	https://www.omim.org/entry/600037
OVOL2	20p11.23	https://www.omim.org/entry/616441
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OXGR1	13q32.1	https://www.omim.org/entry/606922
OXR1	8q23.1	https://www.omim.org/entry/605609
P2RX2	12q24.33	https://www.omim.org/entry/600844
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P3H2	3q28	https://www.omim.org/entry/610341
P4HA2	5q31.1	https://www.omim.org/entry/600608
P4HB	17q25.3	https://www.omim.org/entry/176790
P4HTM	3p21.31	https://www.omim.org/entry/614584
PABPC1	8q22.3	
PABPN1	14q11.2	https://www.omim.org/entry/602279
PACS1	11q13.1-q13.2	https://www.omim.org/entry/607492
PACS2	14q32.33	https://www.omim.org/entry/610423
PADI3	1p36.13	https://www.omim.org/entry/606755
PADI6	1p36.13	https://www.omim.org/entry/610363
PAFAH1B1	17p13.3	https://www.omim.org/entry/601545
PAH	12q23.2	https://www.omim.org/entry/612349
PAK1	11q13.5-q14.1	https://www.omim.org/entry/602590
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PAK3	Xq23	https://www.omim.org/entry/300142
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PAN2	12q13.3	
PANK2	20p13	https://www.omim.org/entry/606157
PANX1	11q21	https://www.omim.org/entry/608420
PAPPA2	1q25.2	https://www.omim.org/entry/619485
PAPSS2	10q23.2-q23.3	https://www.omim.org/entry/603005
PARK7	1p36.23	https://www.omim.org/entry/602533
PARN	16p13.12	https://www.omim.org/entry/604212
PARP6	15q23	
PARS2	1p32.3	https://www.omim.org/entry/612036
PATL2	15q21.1	https://www.omim.org/entry/614661
PAX1	20p11.22	https://www.omim.org/entry/167411
PAX2	10q24.31	https://www.omim.org/entry/167409
PAX3	2q36.1	https://www.omim.org/entry/606597
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PAX5	9p13.2	
PAX6	11p13	https://www.omim.org/entry/607108
PAX7	1p36.13	https://www.omim.org/entry/167410
PAX8	2q14.1	https://www.omim.org/entry/167415
PAX9	14q13.3	https://www.omim.org/entry/167416
PBX1	1q23.3	https://www.omim.org/entry/176310
PC	11q13.2	https://www.omim.org/entry/608786
PCARE	2p23.2	https://www.omim.org/entry/613425
PCBD1	10q22.1	https://www.omim.org/entry/126090
PCBP2	12q13.13	
PCCA	13q32.3	https://www.omim.org/entry/232000
PCCB	3q22.3	https://www.omim.org/entry/232050

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PCGF2	17q12	https://www.omim.org/entry/600346
PKCK1	20q13.31	https://www.omim.org/entry/614168
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PCM1	8p22	
PCNT	21q22.3	https://www.omim.org/entry/605925
PCSK1	5q15	https://www.omim.org/entry/162150
PCSK9	1p32.3	https://www.omim.org/entry/607786
PCYT1A	3q29	https://www.omim.org/entry/123695
PCYT2	17q25.3	https://www.omim.org/entry/602679
PDCD1	2q37.3	
PDCD10	3q26.1	https://www.omim.org/entry/609118
PDCD1LG2	9p24.1	
PDE10A	6q27	https://www.omim.org/entry/610652
PDE11A	2q31.2	https://www.omim.org/entry/604961
PDE2A	11q13.4	https://www.omim.org/entry/602658
PDE3A	12p12.2	https://www.omim.org/entry/123805
PDE4D	5q11.2-q12.1	https://www.omim.org/entry/600129
PDE6A	5q32	https://www.omim.org/entry/180071
PDE6B	4p16.3	https://www.omim.org/entry/180072
PDE6C	10q23.33	https://www.omim.org/entry/600827
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PDE6G	17q25.3	https://www.omim.org/entry/180073
PDE6H	12p12.3	https://www.omim.org/entry/601190
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PDGFB	22q13.1	https://www.omim.org/entry/190040
PDGFRA	4q12	https://www.omim.org/entry/173490
PDGFRB	5q32	https://www.omim.org/entry/173410
PDGFRL	8p22	https://www.omim.org/entry/604584
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PDHA2	4q22.3	https://www.omim.org/entry/179061
PDHB	3p14.3	https://www.omim.org/entry/179060
PDHX	11p13	https://www.omim.org/entry/608769
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PDYN	20p13	https://www.omim.org/entry/131340
PDZD7	10q24.31	https://www.omim.org/entry/612971
PDZD8	10q25.3-q26.1	https://www.omim.org/entry/614235
PECAM1	17q23.3	
PEPD	19q13.11	https://www.omim.org/entry/613230
PERCC1	16p13.3	https://www.omim.org/entry/618656
PERP	6q23.3	https://www.omim.org/entry/609301
PET100	19p13.2	https://www.omim.org/entry/614770
PEX1	7q21.2	https://www.omim.org/entry/602136

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PEX12	17q12	https://www.omim.org/entry/601758
PEX13	2p15	https://www.omim.org/entry/601789
PEX14	1p36.22	https://www.omim.org/entry/601791
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PEX19	1q23.2	https://www.omim.org/entry/600279
PEX2	8q21.13	https://www.omim.org/entry/170993
PEX26	22q11.21	https://www.omim.org/entry/608666
PEX3	6q24.2	https://www.omim.org/entry/603164
PEX5	12p13.31	https://www.omim.org/entry/600414
PEX6	6p21.1	https://www.omim.org/entry/601498
PEX7	6q23.3	https://www.omim.org/entry/601757
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PGAM2	7p13	https://www.omim.org/entry/612931
PGAP1	2q33.1	https://www.omim.org/entry/611655
PGAP2	11p15.4	https://www.omim.org/entry/615187
PGAP3	17q12	https://www.omim.org/entry/611801
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PGM1	1p31.3	https://www.omim.org/entry/171900
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PHGDH	1p12	https://www.omim.org/entry/606879
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PHKB	16q12.1	https://www.omim.org/entry/172490
PHKG2	16p11.2	https://www.omim.org/entry/172471
PHLDB1	11q23.3	https://www.omim.org/entry/612834
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PHYH	10p13	https://www.omim.org/entry/602026
PI4K2A	10q24.2	https://www.omim.org/entry/609763
PI4KA	22q11.21	https://www.omim.org/entry/600286
PI4KB	1q21.3	https://www.omim.org/entry/602758
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PICALM	11q14.2	https://www.omim.org/entry/603025
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PIEZO1	16q24.3	https://www.omim.org/entry/611184
PIEZO2	18p11.22-p11	https://www.omim.org/entry/613629
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PIGH	14q24.1	https://www.omim.org/entry/600154
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PIGL	17p11.2	https://www.omim.org/entry/605947
PIGM	1q23.2	https://www.omim.org/entry/610273
PIGN	18q21.33	https://www.omim.org/entry/606097
PIGO	9p13.3	https://www.omim.org/entry/614730
PIGP	21q22.13	https://www.omim.org/entry/605938
PIGQ	16p13.3	https://www.omim.org/entry/605754
PIGS	17q11.2	https://www.omim.org/entry/610271
PIGT	20q13.12	https://www.omim.org/entry/610272
PIGU	20q11.22	https://www.omim.org/entry/608528
PIGV	1p36.11	https://www.omim.org/entry/610274
PIGW	17q12	https://www.omim.org/entry/610275
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PIK3R1	5q13.1	https://www.omim.org/entry/171833
PIK3R2	19p13.11	https://www.omim.org/entry/603157
PIK3R5	17p13.1	https://www.omim.org/entry/611317
PIKFYVE	2q34	https://www.omim.org/entry/609414
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PISD	22q12.2	https://www.omim.org/entry/612770
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PITRM1	10p15.2	https://www.omim.org/entry/618211
PITX1	5q31.1	https://www.omim.org/entry/602149
PITX2	4q25	https://www.omim.org/entry/601542
PITX3	10q24.32	https://www.omim.org/entry/602669
PJVK	2q31.2	https://www.omim.org/entry/610219
PKD1	16p13.3	https://www.omim.org/entry/601313
PKD1L1	7p12.3	https://www.omim.org/entry/609721
PKD2	4q22.1	https://www.omim.org/entry/173910
PKDCC	2p21	https://www.omim.org/entry/614150
PKHD1	6p12.3-p12.2	https://www.omim.org/entry/606702
PKHD1L1	8q23.1-q23.2	https://www.omim.org/entry/607843
PKLR	1q22	https://www.omim.org/entry/609712
PKP1	1q32.1	https://www.omim.org/entry/601975
PKP2	12p11.21	https://www.omim.org/entry/602861
PLA2G4A	1q31.1	https://www.omim.org/entry/600522
PLA2G5	1p36.13	
PLA2G6	22q13.1	https://www.omim.org/entry/603604
PLA2G7	6p12.3	https://www.omim.org/entry/601690
PLAA	9p21.2	https://www.omim.org/entry/603873
PLAAT3	11q12.3-q13.1	https://www.omim.org/entry/613867
PLAG1	8q12.1	https://www.omim.org/entry/603026
PLAGL1	6q24.2	

PLAT	8p11.21	
PLAU	10q22.2	https://www.omim.org/entry/191840
PLCB1	20p12.3	https://www.omim.org/entry/607120
PLCB3	11q13.1	https://www.omim.org/entry/600230
PLCB4	20p12.3-p12.1	https://www.omim.org/entry/600810
PLCD1	3p22.2	https://www.omim.org/entry/602142
PLCE1	10q23.33	https://www.omim.org/entry/608414
PLCG2	16q24.1	https://www.omim.org/entry/600220
PLCH1	3q25.31	https://www.omim.org/entry/612835
PLCZ1	12p12.3	https://www.omim.org/entry/608075
PLD1	3q26.31	https://www.omim.org/entry/602382
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PLEC	8q24.3	https://www.omim.org/entry/601282
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PLEKHG5	1p36.31	https://www.omim.org/entry/611101
PLEKHM1	17q21.31	https://www.omim.org/entry/611466
PLG	6q26	https://www.omim.org/entry/173350
PLIN1	15q26.1	https://www.omim.org/entry/170290
PLIN4	19p13.3	https://www.omim.org/entry/613247
PLK1	16p12.2	
PLK4	4q28.1	https://www.omim.org/entry/605031
PLN	6q22.31	https://www.omim.org/entry/172405
PLOD2	3q24	https://www.omim.org/entry/601865
PLOD3	7q22.1	https://www.omim.org/entry/603066
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PLPBP	8p11.23	https://www.omim.org/entry/604436
PLS1	3q23	https://www.omim.org/entry/602734
PLVAP	19p13.11	https://www.omim.org/entry/607647
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PLXNB2	22q13.33	
PLXND1	3q22.1	https://www.omim.org/entry/604282
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PMP22	17p12	https://www.omim.org/entry/601097
PMPCA	9q34.3	https://www.omim.org/entry/613036
PMPCB	7q22.1	https://www.omim.org/entry/603131
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PMVK	1q21.3	https://www.omim.org/entry/607622
PNKD	2q35	https://www.omim.org/entry/609023
PNKP	19q13.33	https://www.omim.org/entry/605610
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PNLIP	10q25.3	
PNP	14q11.2	https://www.omim.org/entry/164050
PNPLA1	6p21.31	https://www.omim.org/entry/612121
PNPLA2	11p15.5	https://www.omim.org/entry/609059
PNPLA6	19p13.2	https://www.omim.org/entry/603197

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PNPO	17q21.32	https://www.omim.org/entry/603287
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POC5	5q13.3	
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POGZ	1q21.3	https://www.omim.org/entry/614787
POLA1	Xp22.11-p21.1	https://www.omim.org/entry/312040
POLD2	7p13	
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POLE2	14q21.3	
POLG	15q26.1	https://www.omim.org/entry/174763
POLG2	17q23.3	https://www.omim.org/entry/604983
POLH	6p21.1	https://www.omim.org/entry/603968
POLK	5q13.3	
POLQ	3q13.33	
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POLR1B	2q14.1	https://www.omim.org/entry/602000
POLR1C	6p21.1	https://www.omim.org/entry/610060
POLR1D	13q12.2	https://www.omim.org/entry/613715
POLR2A	17p13.1	https://www.omim.org/entry/180660
POLR3A	10q22.3	https://www.omim.org/entry/614258
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POLR3C	1q21.1	
POLR3F	20p11.23	
POLR3GL	1q21.1	https://www.omim.org/entry/617457
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POLRMT	19p13.3	https://www.omim.org/entry/601778
POMC	2p23.3	https://www.omim.org/entry/176830
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POMK	8p11.21	https://www.omim.org/entry/615247
POMP	13q12.3	https://www.omim.org/entry/613386
POMT1	9q34.13	https://www.omim.org/entry/607423
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POP1	8q22.2	https://www.omim.org/entry/602486
POPDC2	3q13.33	
POPDC3	6q21	https://www.omim.org/entry/605824
POR	7q11.23	https://www.omim.org/entry/124015
PORCN	Xp11.23	https://www.omim.org/entry/300651
POT1	7q31.33	https://www.omim.org/entry/606478
POU1F1	3p11.2	https://www.omim.org/entry/173110
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POU4F1	13q31.1	https://www.omim.org/entry/601632
POU4F3	5q32	https://www.omim.org/entry/602460

PPA2	4q24	https://www.omim.org/entry/609988
PPARG	3p25.2	https://www.omim.org/entry/601487
PPCS	1p34.2	https://www.omim.org/entry/609853
PPFIA3	19q13.33	
PPFIBP1	12p11.23-p11	https://www.omim.org/entry/603141
PPIL1	6p21.2	https://www.omim.org/entry/601301
PIIP5K2	5q21.1	https://www.omim.org/entry/611648
PPM1D	17q23.3	https://www.omim.org/entry/605100
PPM1K	4q22.1	https://www.omim.org/entry/611065
PPOX	1q23.3	https://www.omim.org/entry/600923
PPP1CB	2p23.2	https://www.omim.org/entry/600590
PPP1R12A	12q21.2-q21.1	https://www.omim.org/entry/602021
PPP1R13L	19q13.32	https://www.omim.org/entry/607463
PPP1R15B	1q32.1	https://www.omim.org/entry/613257
PPP1R21	2p16.3	https://www.omim.org/entry/618159
PPP1R3A	7q31.1	https://www.omim.org/entry/600917
PPP1R3F	Xp11.23	
PPP2CA	5q31.1	https://www.omim.org/entry/176915
PPP2R1A	19q13.41	https://www.omim.org/entry/605983
PPP2R1B	11q23.1	https://www.omim.org/entry/603113
PPP2R2B	5q32	https://www.omim.org/entry/604325
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PPP2R5C	14q32.31	
PPP2R5D	6p21.1	https://www.omim.org/entry/601646
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PRCD	17q25.1	https://www.omim.org/entry/610598
PRDM1	6q21	
PRDM12	9q34.12	https://www.omim.org/entry/616458
PRDM13	6q16.2	https://www.omim.org/entry/616741
PRDM15	21q22.3	
PRDM16	1p36.32	https://www.omim.org/entry/605557
PRDM6	5q23.2	https://www.omim.org/entry/616982
PRDM9	5p14.2	
PRDX1	1p34.1	https://www.omim.org/entry/176763
PRDX3	10q26.11	https://www.omim.org/entry/604769
PREPL	2p21	https://www.omim.org/entry/609557
PRF1	10q22.1	https://www.omim.org/entry/170280
PRG4	1q31.1	https://www.omim.org/entry/604283
PRICKLE1	12q12	https://www.omim.org/entry/608500
PRICKLE2	3p14.1	
PRIM1	12q13.3	https://www.omim.org/entry/176635
PRIMPOL	4q35.1	https://www.omim.org/entry/615421
PRKACA	19p13.12	https://www.omim.org/entry/601639
PRKACB	1p31.1	https://www.omim.org/entry/176892
PRKAG2	7q36.1	https://www.omim.org/entry/602743
PRKAR1A	17q24.2	https://www.omim.org/entry/188830
PRKAR1B	7p22.3	https://www.omim.org/entry/176911

PRKCA	17q24.2	https://www.omim.org/entry/176960
PRKCD	3p21.1	https://www.omim.org/entry/176977
PRKCG	19q13.42	https://www.omim.org/entry/176980
PRKCSH	19p13.2	https://www.omim.org/entry/177060
PRKD1	14q12	https://www.omim.org/entry/605435
PRKDC	8q11.21	https://www.omim.org/entry/600899
PRKG1	10q11.23-q21	https://www.omim.org/entry/176894
PRKG2	4q21.21	https://www.omim.org/entry/601591
PRKN	6q26	https://www.omim.org/entry/602544
PRKRA	2q31.2	https://www.omim.org/entry/603424
PRLR	5p13.2	https://www.omim.org/entry/176761
PRMT7	16q22.1	https://www.omim.org/entry/610087
PRMT9	4q31.23	
PRNP	20p13	https://www.omim.org/entry/176640
PROC	2q14.3	https://www.omim.org/entry/612283
PRODH	22q11.21	https://www.omim.org/entry/606810
PRODH2	19q13.12	
PROK1	1p13.3	
PROKR1	2p13.3	
PROP1	5q35.3	https://www.omim.org/entry/601538
PRORP	14q13.2	https://www.omim.org/entry/609947
PROS1	3q11.1	https://www.omim.org/entry/176880
PROSER1	13q13.3	
PRPF19	11q12.2	
PRPF3	1q21.2	https://www.omim.org/entry/607301
PRPF4	9q32	https://www.omim.org/entry/607795
PRPF6	20q13.33	https://www.omim.org/entry/613979
PRPF8	17p13.3	https://www.omim.org/entry/607300
PRPS1	Xq22.3	https://www.omim.org/entry/311850
PRR12	19q13.33	https://www.omim.org/entry/616633
PRRT2	16p11.2	https://www.omim.org/entry/614386
PRRX1	1q24.2	https://www.omim.org/entry/167420
PRSS1	7q34	https://www.omim.org/entry/276000
PRSS12	4q26	https://www.omim.org/entry/606709
PRSS56	2q37.1	https://www.omim.org/entry/613858
PRUNE1	1q21.3	https://www.omim.org/entry/617413
PRX	19q13.2	https://www.omim.org/entry/605725
PSAP	10q22.1	https://www.omim.org/entry/176801
PSAT1	9q21.2	https://www.omim.org/entry/610936
PSEN1	14q24.2	https://www.omim.org/entry/104311
PSEN2	1q42.13	https://www.omim.org/entry/600759
PSENEN	19q13.12	https://www.omim.org/entry/607632
PSKH1	16q22.1	https://www.omim.org/entry/177015
PSMB10	16q22.1	https://www.omim.org/entry/176847
PSMB4	1q21.3	
PSMB8	6p21.32	https://www.omim.org/entry/177046
PSMB9	6p21.32	https://www.omim.org/entry/177045
PSMC3	11p11.2	
PSMC3IP	17q21.2	https://www.omim.org/entry/608665
PSMC5	17q23.3	

PSMD11	17q11.2	
PSMD12	17q24.2	https://www.omim.org/entry/604450
PSMF1	20p13	
PSMG2	18p11.21	
PSPH	7p11.2	https://www.omim.org/entry/172480
PSTPIP1	15q24.3	https://www.omim.org/entry/606347
PTCD3	2p11.2	https://www.omim.org/entry/614918
PTCH1	9q22.32	https://www.omim.org/entry/601309
PTCH2	1p34.1	https://www.omim.org/entry/603673
PTCHD1	Xp22.11	
PTCRA	6p21.1	https://www.omim.org/entry/606817
PTDSS1	8q22.1	https://www.omim.org/entry/612792
PTEN	10q23.31	https://www.omim.org/entry/601728
PTF1A	10p12.2	https://www.omim.org/entry/607194
PTGIS	20q13.13	https://www.omim.org/entry/601699
PTGS1	9q33.2	
PTGS2	1q31.1	
PTH	11p15.3	https://www.omim.org/entry/168450
PTH1R	3p21.31	https://www.omim.org/entry/168468
PTHLH	12p11.22	https://www.omim.org/entry/168470
PTPA	9q34.11	https://www.omim.org/entry/600756
PTPN11	12q24.13	https://www.omim.org/entry/176876
PTPN12	7q11.23	https://www.omim.org/entry/600079
PTPN14	1q32.3-q41	https://www.omim.org/entry/603155
PTPN2	18p11.21	
PTPN22	1p13.2	
PTPN23	3p21.31	https://www.omim.org/entry/606584
PTPN3	9q31.3	
PTPN4	2q14.2	
PTPRC	1q31.3-q32.1	https://www.omim.org/entry/151460
PTPRJ	11p11.2	https://www.omim.org/entry/600925
PTPRO	12p12.3	https://www.omim.org/entry/600579
PTPRQ	12q21.31	https://www.omim.org/entry/603317
PTRH2	17q23.1	https://www.omim.org/entry/608625
PTRHD1	2p23.3	https://www.omim.org/entry/617342
PTS	11q23.1	https://www.omim.org/entry/612719
PUF60	8q24.3	https://www.omim.org/entry/604819
PUM1	1p35.2	https://www.omim.org/entry/607204
PURA	5q31.3	https://www.omim.org/entry/600473
PUS1	12q24.33	https://www.omim.org/entry/608109
PUS3	11q24.2	https://www.omim.org/entry/616283
PUS7	7q22.3	https://www.omim.org/entry/616261
PXDN	2p25.3	https://www.omim.org/entry/605158
PYCR1	17q25.3	https://www.omim.org/entry/179035
PYCR2	1q42.12	https://www.omim.org/entry/616406
PYGL	14q22.1	https://www.omim.org/entry/613741
PYGM	11q13.1	https://www.omim.org/entry/608455
PYROXD1	12p12.1	https://www.omim.org/entry/617220
QARS1	3p21.31	https://www.omim.org/entry/603727
QDPR	4p15.32	https://www.omim.org/entry/612676

QRICH1	3p21.31	https://www.omim.org/entry/617387
QRICH2	17q25.1	https://www.omim.org/entry/618304
QRSL1	6q21	https://www.omim.org/entry/617209
RAB11A	15q22.31	
RAB11B	19p13.2	https://www.omim.org/entry/604198
RAB12	18p11.22	
RAB14	9q33.2	
RAB18	10p12.1	https://www.omim.org/entry/602207
RAB1A	2p14	
RAB23	6p12.1-p11.2	https://www.omim.org/entry/606144
RAB27A	15q21.3	https://www.omim.org/entry/603868
RAB28	4p15.33	https://www.omim.org/entry/612994
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RAB34	17q11.2	https://www.omim.org/entry/610917
RAB39B	Xq28	https://www.omim.org/entry/300774
RAB3GAP1	2q21.3	https://www.omim.org/entry/602536
RAB3GAP2	1q41	https://www.omim.org/entry/609275
RAB5C	17q21.2	
RAB7A	3q21.3	https://www.omim.org/entry/602298
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RABL3	3q13.33	
RAC1	7p22.1	https://www.omim.org/entry/602048
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RAC3	17q25.3	https://www.omim.org/entry/602050
RACGAP1	12q13.12	https://www.omim.org/entry/604980
RAD21	8q24.11	https://www.omim.org/entry/606462
RAD50	5q31.1	https://www.omim.org/entry/604040
RAD51	15q15.1	https://www.omim.org/entry/179617
RAD51B	14q24.1	
RAD51D	17q12	
RAD54B	8q22.1	https://www.omim.org/entry/604289
RAD54L	1p34.1	https://www.omim.org/entry/603615
RAD9B	12q24.11	
RAF1	3p25.2	https://www.omim.org/entry/164760
RAG1	11p12	https://www.omim.org/entry/179615
RAG2	11p12	https://www.omim.org/entry/179616
RAI1	17p11.2	https://www.omim.org/entry/607642
RALA	7p14.1	https://www.omim.org/entry/179550
RALGAPA1	14q13.2	https://www.omim.org/entry/608884
RALGAPB	20q11.23	
RAMP2	17q21.2	
RANBP2	2q13	
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RAP1GDS1	4q23	https://www.omim.org/entry/179502
RAPSN	11p11.2	https://www.omim.org/entry/601592
RARA	17q21.2	
RARB	3p24.2	https://www.omim.org/entry/180220
RARS1	5q34	https://www.omim.org/entry/107820
RARS2	6q15	https://www.omim.org/entry/611524
RASA1	5q14.3	https://www.omim.org/entry/139150

RASGRP1	15q14	https://www.omim.org/entry/603962
RASGRP2	11q13.1	
RAX	18q21.32	https://www.omim.org/entry/601881
RAX2	19p13.3	https://www.omim.org/entry/610362
RB1	13q14.2	https://www.omim.org/entry/614041
RB1CC1	8q11.23	https://www.omim.org/entry/606837
RBBP5	1q32.1	
RBBP6	16p12.1	
RBBP8	18q11.2	https://www.omim.org/entry/604124
RBCK1	20p13	https://www.omim.org/entry/610924
RBFOX1	16p13.3	
RBL2	16q12.2	https://www.omim.org/entry/180203
RBM10	Xp11.3	https://www.omim.org/entry/300080
RBM12	20q11.22	
RBM20	10q25.2	https://www.omim.org/entry/613171
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RBM8A	1q21.1	https://www.omim.org/entry/605313
RBP3	10q11.22	
RBP4	10q23.33	https://www.omim.org/entry/180250
RBPJ	4p15.2	https://www.omim.org/entry/147183
RBSN	3p25.1	https://www.omim.org/entry/609511
RCBTB1	13q14.2	https://www.omim.org/entry/607867
RCC1	1p35.3	
RD3	1q32.3	https://www.omim.org/entry/180040
RDH11	14q24.1	
RDH5	12q13.2	https://www.omim.org/entry/601617
RDX	11q22.3	https://www.omim.org/entry/179410
REC114	15q24.1	https://www.omim.org/entry/618421
RECQL	12p12.1	https://www.omim.org/entry/600537
RECQL4	8q24.3	https://www.omim.org/entry/603780
REEP1	2p11.2	https://www.omim.org/entry/609139
REEP2	5q31.2	https://www.omim.org/entry/609347
REEP6	19p13.3	https://www.omim.org/entry/609346
REL	2p16.1	https://www.omim.org/entry/164910
RELA	11q13.1	https://www.omim.org/entry/164014
RELB	19q13.32	
RELN	7q22.1	https://www.omim.org/entry/600514
RELT	11q13.4	https://www.omim.org/entry/611211
REN	1q32.1	https://www.omim.org/entry/179820
RERE	1p36.23	https://www.omim.org/entry/605226
REST	4q12	https://www.omim.org/entry/600571
RETREG1	5p15.1	https://www.omim.org/entry/613114
REV3L	6q21	
RFC1	4p14	https://www.omim.org/entry/102579
RFC4	3q27.3	
RFT1	3p21.1	https://www.omim.org/entry/611908
RFWD3	16q23.1	
RFX3	9p24.2	
RFX4	12q23.3	
RFX5	1q21.3	https://www.omim.org/entry/601863

RFX6	6q22.1	https://www.omim.org/entry/612659
RFX7	15q21.3	https://www.omim.org/entry/612660
RFXANK	19p13.11	https://www.omim.org/entry/603200
RFXAP	13q13.3	https://www.omim.org/entry/601861
RGR	10q23.1	https://www.omim.org/entry/600342
RGS2	1q31.2	
RGS6	14q24.2	
RGS9	17q24.1	https://www.omim.org/entry/604067
RGS9BP	19q13.11	https://www.omim.org/entry/607814
RHAG	6p12.3	https://www.omim.org/entry/180297
RHBDF2	17q25.1	https://www.omim.org/entry/614404
RHCE	1p36.11	https://www.omim.org/entry/111700
RHD	1p36.11	
RHEB	7q36.1	
RHOA	3p21.31	https://www.omim.org/entry/165390
RHOBTB2	8p21.3	https://www.omim.org/entry/607352
RHOH	4p14	
RHOT1	17q11.2	
RIC1	9p24.1	https://www.omim.org/entry/610354
RIGI	9p21.1	https://www.omim.org/entry/609631
RILPL1	12q24.31	https://www.omim.org/entry/614092
RIMS1	6q13	
RIMS2	8q22.3	https://www.omim.org/entry/606630
RIN2	20p11.23	https://www.omim.org/entry/610222
RINT1	7q22.3	https://www.omim.org/entry/610089
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RIPK4	21q22.3	https://www.omim.org/entry/605706
RIPOR2	6p22.3	https://www.omim.org/entry/611410
RIPPLY2	6q14.2	
RIT1	1q22	https://www.omim.org/entry/609591
RLBP1	15q26.1	https://www.omim.org/entry/180090
RLIM	Xq13.2	https://www.omim.org/entry/300379
RMND1	6q25.1	https://www.omim.org/entry/614917
RMRP	9p13.3	https://www.omim.org/entry/157660
RNASEH1	2p25.3	https://www.omim.org/entry/604123
RNASEH2A	19p13.13	https://www.omim.org/entry/606034
RNASEH2B	13q14.3	https://www.omim.org/entry/610326
RNASEH2C	11q13.1	https://www.omim.org/entry/610330
RNASEL	1q25.3	https://www.omim.org/entry/180435
RNASET2	6q27	https://www.omim.org/entry/612944
RNF113A	Xq24	https://www.omim.org/entry/300951
RNF114	20q13.13	
RNF125	18q12.1	https://www.omim.org/entry/610432
RNF13	3q25.1	https://www.omim.org/entry/609247
RNF139	8q24.13	https://www.omim.org/entry/603046
RNF168	3q29	https://www.omim.org/entry/612688
RNF170	8p11.21	https://www.omim.org/entry/614649
RNF2	1q25.3	https://www.omim.org/entry/608985
RNF212	4p16.3	https://www.omim.org/entry/612041
RNF213	17q25.3	

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RNF220	1p34.1	https://www.omim.org/entry/616136
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RNF43	17q22	https://www.omim.org/entry/612482
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RNFT2	12q24.22	
RNH1	11p15.5	
RNPC3	1p21.1	https://www.omim.org/entry/618016
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RNU4-2	12q24.31	https://www.omim.org/entry/620823
RNU4ATAC	2q14.2	https://www.omim.org/entry/601428
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RNU7-1	12p13.31	https://www.omim.org/entry/617876
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ROBO2	3p12.3	https://www.omim.org/entry/602431
ROBO3	11q24.2	https://www.omim.org/entry/608630
ROBO4	11q24.2	https://www.omim.org/entry/607528
ROGDI	16p13.3	https://www.omim.org/entry/614574
ROM1	11q12.3	https://www.omim.org/entry/180721
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RORA	15q22.2	https://www.omim.org/entry/600825
RORB	9q21.13	
RORC	1q21.3	https://www.omim.org/entry/602943
ROS1	6q22.1	
RP1L1	8p23.1	https://www.omim.org/entry/608581
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RP9	7p14.3	
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RPGRIP1L	16q12.2	https://www.omim.org/entry/610937
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RPIA	2p11.2	https://www.omim.org/entry/180430
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RPL11	1p36.11	https://www.omim.org/entry/604175
RPL13	16q24.3	https://www.omim.org/entry/113703
RPL15	3p24.2	https://www.omim.org/entry/604174
RPL21	13q12.2	https://www.omim.org/entry/603636
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RPS6KA3	Xp22.12	https://www.omim.org/entry/300075
RPS7	2p25.3	https://www.omim.org/entry/603658
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RRAGC	1p34.3	https://www.omim.org/entry/608267
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RSPH9	6p21.1	https://www.omim.org/entry/612648
RSPO1	1p34.3	https://www.omim.org/entry/609595
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RSPO4	20p13	https://www.omim.org/entry/610573
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RTN2	19q13.32	https://www.omim.org/entry/603183
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SAMD12	8q24.11-q24.1	https://www.omim.org/entry/618073
SAMD7	3q26.2	https://www.omim.org/entry/620493
SAMD9	7q21.2	https://www.omim.org/entry/610456
SAMD9L	7q21.2	https://www.omim.org/entry/611170
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SBF2	11p15.4	https://www.omim.org/entry/607697
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SCNM1	1q21.3	https://www.omim.org/entry/608095
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SCNN1B	16p12.2	https://www.omim.org/entry/600760
SCNN1G	16p12.2	https://www.omim.org/entry/600761
SCO1	17p13.1	https://www.omim.org/entry/603644
SCO2	22q13.33	https://www.omim.org/entry/604272
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SDCCAG8	1q43-q44	https://www.omim.org/entry/613524
SDHAF1	19q13.12	https://www.omim.org/entry/612848
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SEC24D	4q26	https://www.omim.org/entry/607186
SEC61A1	3q21.3	https://www.omim.org/entry/609213
SEC63	6q21	https://www.omim.org/entry/608648
SECISBP2	9q22.2	https://www.omim.org/entry/607693
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SELENON	1p36.11	https://www.omim.org/entry/606210
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SEMA3E	7q21.11	
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SEPTIN12	16p13.3	https://www.omim.org/entry/611562
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SETX	9q34.13	https://www.omim.org/entry/608465
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SF3B4	1q21.2	https://www.omim.org/entry/605593
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SGCD	5q33.2-q33.3	https://www.omim.org/entry/601411
SGCE	7q21.3	https://www.omim.org/entry/604149
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SIK3	11q23.3	
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SIM1	6q16.3	
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SMAD6	15q22.31	https://www.omim.org/entry/602931
SMAD9	13q13.3	https://www.omim.org/entry/603295
SMARCA1	Xq25-q26.1	
SMARCA2	9p24.3	https://www.omim.org/entry/600014
SMARCA4	19p13.2	https://www.omim.org/entry/603254
SMARCA5	4q31.21	
SMARCA11	4q22.3	https://www.omim.org/entry/612761
SMARCA11	2q35	https://www.omim.org/entry/606622
SMARCC1	3p21.31	

SMARCC2	12q13.2	https://www.omim.org/entry/601734
SMARCD1	12q13.12	https://www.omim.org/entry/601735
SMARCD2	17q23.3	https://www.omim.org/entry/601736
SMARCE1	17q21.2	https://www.omim.org/entry/603111
SMC1A	Xp11.22	https://www.omim.org/entry/300040
SMC3	10q25.2	https://www.omim.org/entry/606062
SMC5	9q21.12	https://www.omim.org/entry/609386
SMCHD1	18p11.32	https://www.omim.org/entry/614982
SMG8	17q22	https://www.omim.org/entry/613175
SMG9	19q13.31	https://www.omim.org/entry/613176
SMN1	5q13.2	https://www.omim.org/entry/600354
SMN2	5q13.2	
SMO	7q32.1	https://www.omim.org/entry/601500
SMOC1	14q24.1	https://www.omim.org/entry/608488
SMOC2	6q27	https://www.omim.org/entry/607223
SMPD1	11p15.4	https://www.omim.org/entry/607608
SMPD4	2q21.1	https://www.omim.org/entry/610457
SMPX	Xp22.12	https://www.omim.org/entry/300226
SMS	Xp22.11	https://www.omim.org/entry/300105
SNAP25	20p12.2	
SNAP29	22q11.21	https://www.omim.org/entry/604202
SNAPC4	9q34.3	https://www.omim.org/entry/602777
SNCA	4q22.1	https://www.omim.org/entry/163890
SNCAIP	5q23.2	
SNCB	5q35.2	https://www.omim.org/entry/602569
SNF8	17q21.32	https://www.omim.org/entry/610904
SNIP1	1p34.3	https://www.omim.org/entry/608241
SNORA31	13q14.13	
SNORD118	17p13.1	https://www.omim.org/entry/616663
SNRNP200	2q11.2	https://www.omim.org/entry/601664
SNRPB	20p13	https://www.omim.org/entry/182282
SNRPE	1q32.1	https://www.omim.org/entry/128260
SNRPN	15q11.2	
SNTA1	20q11.21	https://www.omim.org/entry/601017
SNUPN	15q24.2	https://www.omim.org/entry/607902
SNX10	7p15.2	https://www.omim.org/entry/614780
SNX14	6q14.3	https://www.omim.org/entry/616105
SNX27	1q21.3	
SOCS1	16p13.13	https://www.omim.org/entry/603597
SOD1	21q22.11	https://www.omim.org/entry/147450
SOHLH1	9q34.3	https://www.omim.org/entry/610224
SON	21q22.11	https://www.omim.org/entry/182465
SORD	15q21.1	https://www.omim.org/entry/182500
SORL1	11q24.1	
SOS1	2p22.1	https://www.omim.org/entry/182530
SOS2	14q21.3	https://www.omim.org/entry/601247
SOST	17q21.31	https://www.omim.org/entry/605740
SOX10	22q13.1	https://www.omim.org/entry/602229
SOX11	2p25.2	https://www.omim.org/entry/600898
SOX17	8q11.23	https://www.omim.org/entry/610928

SOX18	20q13.33	https://www.omim.org/entry/601618
SOX2	3q26.33	https://www.omim.org/entry/184429
SOX3	Xq27.1	https://www.omim.org/entry/313430
SOX4	6p22.3	https://www.omim.org/entry/184430
SOX5	12p12.1	https://www.omim.org/entry/604975
SOX6	11p15.2	https://www.omim.org/entry/607257
SP110	2q37.1	https://www.omim.org/entry/604457
SP6	17q21.32	https://www.omim.org/entry/608613
SP7	12q13.13	https://www.omim.org/entry/606633
SP9	2q31.1	
SPAG1	8q22.2	https://www.omim.org/entry/603395
SPART	13q13.3	https://www.omim.org/entry/607111
SPAST	2p22.3	https://www.omim.org/entry/604277
SPATA22	17p13.2	https://www.omim.org/entry/617673
SPATA7	14q31.3	https://www.omim.org/entry/609868
SPECC1L	22q11.23	https://www.omim.org/entry/614140
SPEF2	5p13.2	https://www.omim.org/entry/610172
SPEG	2q35	https://www.omim.org/entry/615950
SPEN	1p36.21-p36.1	https://www.omim.org/entry/613484
SPG11	15q21.1	https://www.omim.org/entry/610844
SPG21	15q22.31	https://www.omim.org/entry/608181
SPG7	16q24.3	https://www.omim.org/entry/602783
SPI1	11p11.2	https://www.omim.org/entry/165170
SPIDR	8q11.21	https://www.omim.org/entry/615384
SPINK1	5q32	https://www.omim.org/entry/167790
SPINK5	5q32	https://www.omim.org/entry/605010
SPINT2	19q13.2	https://www.omim.org/entry/605124
SPOP	17q21.33	https://www.omim.org/entry/602650
SPOUT1	9q34.11	
SPPL2A	15q21.2	https://www.omim.org/entry/608238
SPR	2p13.2	https://www.omim.org/entry/182125
SPRED1	15q14	https://www.omim.org/entry/609291
SPRED2	2p14	https://www.omim.org/entry/609292
SPRTN	1q42.2	https://www.omim.org/entry/616086
SPTA1	1q23.1	https://www.omim.org/entry/182860
SPTAN1	9q34.11	https://www.omim.org/entry/182810
SPTB	14q23.3	https://www.omim.org/entry/182870
SPTBN1	2p16.2	https://www.omim.org/entry/182790
SPTBN2	11q13.2	https://www.omim.org/entry/604985
SPTBN4	19q13.2	https://www.omim.org/entry/606214
SPTLC1	9q22.31	https://www.omim.org/entry/605712
SPTLC2	14q24.3	https://www.omim.org/entry/605713
SPTSSA	14q13.1	https://www.omim.org/entry/613540
SQOR	15q21.1	https://www.omim.org/entry/617658
SQSTM1	5q35.3	https://www.omim.org/entry/601530
SRA1	5q31.3	
SRC	20q11.23	https://www.omim.org/entry/190090
SRCAP	16p11.2	https://www.omim.org/entry/611421
SRD5A3	4q12	https://www.omim.org/entry/611715
SREBF1	17p11.2	https://www.omim.org/entry/184756

SRGAP1	12q14.2	
SRP54	14q13.2	https://www.omim.org/entry/604857
SRP72	4q12	https://www.omim.org/entry/602122
SRPK3	Xq28	https://www.omim.org/entry/301002
SRRM2	16p13.3	https://www.omim.org/entry/606032
SRSF1	17q22	https://www.omim.org/entry/600812
SS18L1	20q13.33	
SSBP1	7q34	https://www.omim.org/entry/600439
SSR4	Xq28	https://www.omim.org/entry/300090
SSX1	Xp11.23	https://www.omim.org/entry/312820
ST14	11q24.3	https://www.omim.org/entry/606797
ST3GAL3	1p34.1	https://www.omim.org/entry/606494
ST3GAL5	2p11.2	https://www.omim.org/entry/604402
STAB1	3p21.1	
STAC3	12q13.3	https://www.omim.org/entry/615521
STAG1	3q22.3	https://www.omim.org/entry/604358
STAG2	Xq25	https://www.omim.org/entry/300826
STAMBP	2p13.1	https://www.omim.org/entry/606247
STAP1	4q13.2	
STAR	8p11.23	https://www.omim.org/entry/600617
STARD7	2q11.2	https://www.omim.org/entry/616712
STAT1	2q32.2	https://www.omim.org/entry/600555
STAT2	12q13.3	https://www.omim.org/entry/600556
STAT3	17q21.2	https://www.omim.org/entry/102582
STAT4	2q32.2-q32.3	https://www.omim.org/entry/600558
STAT5B	17q21.2	https://www.omim.org/entry/604260
STAT6	12q13.3	https://www.omim.org/entry/601512
STEEP1	Xq24	
STIL	1p33	https://www.omim.org/entry/181590
STIM1	11p15.4	https://www.omim.org/entry/605921
STING1	5q31.2	https://www.omim.org/entry/612374
STK11	19p13.3	https://www.omim.org/entry/602216
STK4	20q13.12	https://www.omim.org/entry/604965
STN1	10q24.33	https://www.omim.org/entry/613128
STOX1	10q22.1	https://www.omim.org/entry/609397
STRA6	15q24.1	https://www.omim.org/entry/610745
STRADA	17q23.3	https://www.omim.org/entry/608626
STRC	15q15.3	https://www.omim.org/entry/606440
STS	Xp22.31	https://www.omim.org/entry/300747
STT3A	11q24.2	https://www.omim.org/entry/601134
STT3B	3p23	https://www.omim.org/entry/608605
STUB1	16p13.3	https://www.omim.org/entry/607207
STX11	6q24.2	https://www.omim.org/entry/605014
STX16	20q13.32	https://www.omim.org/entry/603666
STX1A	7q11.23	
STX1B	16p11.2	https://www.omim.org/entry/601485
STX3	11q12.1	https://www.omim.org/entry/600876
STXBP1	9q34.11	https://www.omim.org/entry/602926
STXBP2	19p13.2	https://www.omim.org/entry/601717
STXBP3	1p13.3	

SUCLA2	13q14.2	https://www.omim.org/entry/603921
SUCLG1	2p11.2	https://www.omim.org/entry/611224
SUCO	1q24.3	
SUFU	10q24.32	https://www.omim.org/entry/607035
SUGCT	7p14.1	https://www.omim.org/entry/609187
SULT2B1	19q13.33	https://www.omim.org/entry/604125
SUMF1	3p26.1	https://www.omim.org/entry/607939
SUN5	20q11.21	https://www.omim.org/entry/613942
SUOX	12q13.2	https://www.omim.org/entry/606887
SUPT16H	14q11.2	https://www.omim.org/entry/605012
SUPT5H	19q13.2	
SURF1	9q34.2	https://www.omim.org/entry/185620
SUZ12	17q11.2	https://www.omim.org/entry/606245
SV2A	1q21.2	https://www.omim.org/entry/185860
SVBP	1p34.2	https://www.omim.org/entry/617853
SVIL	10p11.23	https://www.omim.org/entry/604126
SYCE1	10q26.3	
SYCP2	20q13.33	https://www.omim.org/entry/604105
SYCP2L	6p24.2	https://www.omim.org/entry/616799
SYCP3	12q23.2	https://www.omim.org/entry/604759
SYK	9q22.2	https://www.omim.org/entry/600085
SYN1	Xp11.3-p11.2:	https://www.omim.org/entry/313440
SYNCRIP	6q14.3	
SYNE1	6q25.2	https://www.omim.org/entry/608441
SYNE2	14q23.2	https://www.omim.org/entry/608442
SYNE4	19q13.12	https://www.omim.org/entry/615535
SYNGAP1	6p21.32	https://www.omim.org/entry/603384
SYNJ1	21q22.11	https://www.omim.org/entry/604297
SYN	Xp11.23	https://www.omim.org/entry/313475
SYT1	12q21.2	https://www.omim.org/entry/185605
SYT2	1q32.1	https://www.omim.org/entry/600104
SZT2	1p34.2	https://www.omim.org/entry/615463
TAB2	6q25.1	https://www.omim.org/entry/605101
TACC2	10q26.13	
TACO1	17q23.3	https://www.omim.org/entry/612958
TACSTD2	1p32.1	https://www.omim.org/entry/137290
TAF1	Xq13.1	https://www.omim.org/entry/313650
TAF13	1p13.3	https://www.omim.org/entry/600774
TAF15	17q12	
TAF2	8q24.12	https://www.omim.org/entry/604912
TAF4	20q13.33	https://www.omim.org/entry/601796
TAF6	7q22.1	https://www.omim.org/entry/602955
TAF8	6p21.1	https://www.omim.org/entry/609514
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TAL1	1p33	https://www.omim.org/entry/187040
TAL2	9q31.2	https://www.omim.org/entry/186855
TALDO1	11p15.5	https://www.omim.org/entry/602063
TAMM41	3p25.2	https://www.omim.org/entry/614948
TANC2	17q23.2-q23.3	https://www.omim.org/entry/615047
TANGO2	22q11.21	https://www.omim.org/entry/616830

TAOK1	17q11.2	https://www.omim.org/entry/610266
TAP1	6p21.32	https://www.omim.org/entry/170260
TAP2	6p21.32	https://www.omim.org/entry/170261
TAPBP	6p21.32	
TAPT1	4p15.32	https://www.omim.org/entry/612758
TARDBP	1p36.22	https://www.omim.org/entry/605078
TARS1	5p13.3	https://www.omim.org/entry/187790
TARS2	1q21.2	https://www.omim.org/entry/612805
TASP1	20p12.1	https://www.omim.org/entry/608270
TAT	16q22.2	https://www.omim.org/entry/613018
TBC1D1	4p14	
TBC1D20	20p13	https://www.omim.org/entry/611663
TBC1D23	3q12.1-q12.2	https://www.omim.org/entry/617687
TBC1D24	16p13.3	https://www.omim.org/entry/613577
TBC1D2B	15q24.3-q25.1	https://www.omim.org/entry/619152
TBC1D32	6q22.31	
TBC1D7	6p24.1	https://www.omim.org/entry/612655
TBC1D8B	Xq22.3	https://www.omim.org/entry/301027
TBCD	17q25.3	https://www.omim.org/entry/604649
TBCE	1q42.3	https://www.omim.org/entry/604934
TBCK	4q24	https://www.omim.org/entry/616899
TBK1	12q14.2	https://www.omim.org/entry/604834
TBL1X	Xp22.31-p22.1	https://www.omim.org/entry/300196
TBL1XR1	3q26.32	https://www.omim.org/entry/608628
TBP	6q27	https://www.omim.org/entry/600075
TBR1	2q24.2	https://www.omim.org/entry/604616
TBX15	1p12	https://www.omim.org/entry/604127
TBX18	6q14.3	https://www.omim.org/entry/604613
TBX19	1q24.2	https://www.omim.org/entry/604614
TBX2	17q23.2	https://www.omim.org/entry/600747
TBX20	7p14.2	https://www.omim.org/entry/606061
TBX21	17q21.32	https://www.omim.org/entry/604895
TBX22	Xq21.1	https://www.omim.org/entry/300307
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TBX4	17q23.2	https://www.omim.org/entry/601719
TBX5	12q24.21	https://www.omim.org/entry/601620
TBXA2R	19p13.3	
TBXAS1	7q34	https://www.omim.org/entry/274180
TBXT	6q27	https://www.omim.org/entry/601397
TCAP	17q12	https://www.omim.org/entry/604488
TCEAL1	Xq22.2	https://www.omim.org/entry/300237
TCF12	15q21.3	https://www.omim.org/entry/600480
TCF20	22q13.2	https://www.omim.org/entry/603107
TCF3	19p13.3	https://www.omim.org/entry/147141
TCF4	18q21.2	https://www.omim.org/entry/602272
TCF7L2	10q25.2-q25.3	
TCIRG1	11q13.2	https://www.omim.org/entry/604592
TCN1	11q12.1	
TCN2	22q12.2	https://www.omim.org/entry/613441
TCOF1	5q32-q33.1	https://www.omim.org/entry/606847

TCTN1	12q24.11	https://www.omim.org/entry/609863
TCTN2	12q24.31	https://www.omim.org/entry/613846
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TDP1	14q32.11	
TDP2	6p22.3	https://www.omim.org/entry/605764
TDRD7	9q22.33	https://www.omim.org/entry/611258
TDRD9	14q32.33	
TEAD1	11p15.3	https://www.omim.org/entry/189967
TECPR2	14q32.33	https://www.omim.org/entry/615000
TECR	19p13.12	https://www.omim.org/entry/610057
TECRL	4q13.1	https://www.omim.org/entry/617242
TECTA	11q23.3	https://www.omim.org/entry/602574
TEFM	17q11.2	https://www.omim.org/entry/616422
TEK	9p21.2	https://www.omim.org/entry/600221
TEKT3	17p12	https://www.omim.org/entry/612683
TELO2	16p13.3	https://www.omim.org/entry/611140
TENM3	4q34.3-q35.1	https://www.omim.org/entry/610083
TENM4	11q14.1	https://www.omim.org/entry/610084
TENT5A	6q14.1	https://www.omim.org/entry/611357
TERB1	16q22.1	https://www.omim.org/entry/617332
TERC	3q26.2	https://www.omim.org/entry/602322
TERT	5p15.33	https://www.omim.org/entry/187270
TET2	4q24	https://www.omim.org/entry/612839
TET3	2p13.1	https://www.omim.org/entry/613555
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TF	3q22.1	https://www.omim.org/entry/190000
TFAM	10q21.1	
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TFAP2B	6p12.3	https://www.omim.org/entry/601601
TFE3	Xp11.23	https://www.omim.org/entry/314310
TFG	3q12.2	https://www.omim.org/entry/602498
TFR2	7q22.1	https://www.omim.org/entry/604720
TFRC	3q29	https://www.omim.org/entry/190010
TG	8q24.22	https://www.omim.org/entry/188450
TGDS	13q32.1	https://www.omim.org/entry/616146
TGFB1	19q13.2	https://www.omim.org/entry/190180
TGFB3	14q24.3	https://www.omim.org/entry/190230
TGFBI	5q31.1	https://www.omim.org/entry/601692
TGIF1	18p11.31	https://www.omim.org/entry/602630
TGM1	14q12	https://www.omim.org/entry/190195
TGM5	15q15.2	https://www.omim.org/entry/603805
TGM6	20p13	https://www.omim.org/entry/613900
TH	11p15.5	https://www.omim.org/entry/191290
THAP1	8p11.21	https://www.omim.org/entry/609520
THAP11	16q22.1	https://www.omim.org/entry/609119
THBD	20p11.21	https://www.omim.org/entry/188040
THBS1	15q14	
THBS2	6q27	
THG1L	5q33.3	https://www.omim.org/entry/618802
THOC2	Xq25	https://www.omim.org/entry/300395

THOC6	16p13.3	https://www.omim.org/entry/615403
THPO	3q27.1	https://www.omim.org/entry/600044
THRA	17q21.1	https://www.omim.org/entry/190120
THRB	3p24.2	https://www.omim.org/entry/190160
THSD1	13q14.3	https://www.omim.org/entry/616821
THSD4	15q23	https://www.omim.org/entry/614476
THUMPD1	16p12.3	https://www.omim.org/entry/616662
TIA1	2p13.3	https://www.omim.org/entry/603518
TIAM1	21q22.11	https://www.omim.org/entry/600687
TICAM1	19p13.3	
TIE1	1p34.2	https://www.omim.org/entry/600222
TIMM50	19q13.2	https://www.omim.org/entry/607381
TIMM8A	Xq22.1	https://www.omim.org/entry/300356
TIMMDC1	3q13.33	https://www.omim.org/entry/615534
TIMP3	22q12.3	https://www.omim.org/entry/188826
TINF2	14q12	https://www.omim.org/entry/604319
TIRAP	11q24.2	
TJP2	9q21.11	https://www.omim.org/entry/607709
TK2	16q21	https://www.omim.org/entry/188250
TKFC	11q12.2	https://www.omim.org/entry/615844
TKT	3p21.1	https://www.omim.org/entry/606781
TLCD3B	16p11.2	https://www.omim.org/entry/615175
TLE6	19p13.3	https://www.omim.org/entry/612399
TLK2	17q23.2	https://www.omim.org/entry/608439
TLL1	4q32.3	https://www.omim.org/entry/606742
TLR3	4q35.1	
TLR4	9q33.1	
TLR7	Xp22.2	https://www.omim.org/entry/300365
TLR8	Xp22.2	https://www.omim.org/entry/300366
TM4SF20	2q36.3	
TMC1	9q21.13	https://www.omim.org/entry/606706
TMC6	17q25.3	
TMC8	17q25.3	
TMCO1	1q24.1	https://www.omim.org/entry/614123
TMEFF1	9q31.1	
TMEM106B	7p21.3	https://www.omim.org/entry/613413
TMEM107	17p13.1	https://www.omim.org/entry/616183
TMEM126B	11q14.1	https://www.omim.org/entry/615533
TMEM132E	17q12	https://www.omim.org/entry/616178
TMEM138	11q12.2	https://www.omim.org/entry/614459
TMEM147	19q13.12	https://www.omim.org/entry/613585
TMEM151A	11q13.2	https://www.omim.org/entry/620108
TMEM163	2q21.3	https://www.omim.org/entry/618978
TMEM165	4q12	https://www.omim.org/entry/614726
TMEM199	17q11.2	https://www.omim.org/entry/616815
TMEM216	11q13.1	https://www.omim.org/entry/613277
TMEM218	11q24.2	https://www.omim.org/entry/619285
TMEM222	1p36.11	https://www.omim.org/entry/619469
TMEM230	20p13-p12.3	
TMEM231	16q23.1	https://www.omim.org/entry/614949

TMEM237	2q33.1	https://www.omim.org/entry/614423
TMEM240	1p36.33	https://www.omim.org/entry/616101
TMEM260	14q22.3	https://www.omim.org/entry/617449
TMEM43	3p25.1	https://www.omim.org/entry/612048
TMEM53	1p34.1	https://www.omim.org/entry/619722
TMEM63A	1q42.12	https://www.omim.org/entry/618685
TMEM63B	6p21.1	
TMEM63C	14q24.3	https://www.omim.org/entry/619953
TMEM67	8q22.1	https://www.omim.org/entry/609884
TMEM70	8q21.11	https://www.omim.org/entry/612418
TMEM94	17q25.1	https://www.omim.org/entry/618163
TMEM98	17q11.2	https://www.omim.org/entry/615949
TMIE	3p21.31	https://www.omim.org/entry/607237
TMLHE	Xq28	
TMPRSS15	21q21.1	https://www.omim.org/entry/606635
TMPRSS2	21q22.3	
TMPRSS3	21q22.3	https://www.omim.org/entry/605511
TMPRSS6	22q12.3	https://www.omim.org/entry/609862
TMTC3	12q21.32	https://www.omim.org/entry/617218
TMX2	11q12.1	https://www.omim.org/entry/616715
TNC	9q33.1	https://www.omim.org/entry/187380
TNF	6p21.33	
TNFAIP3	6q23.3	https://www.omim.org/entry/191163
TNFRSF10B	8p21.3	https://www.omim.org/entry/603612
TNFRSF11A	18q21.33	https://www.omim.org/entry/603499
TNFRSF11B	8q24.12	https://www.omim.org/entry/602643
TNFRSF13B	17p11.2	https://www.omim.org/entry/604907
TNFRSF13C	22q13.2	https://www.omim.org/entry/606269
TNFRSF14	1p36.32	
TNFRSF18	1p36.33	
TNFRSF1A	12p13.31	https://www.omim.org/entry/191190
TNFRSF21	6p12.3	
TNFRSF4	1p36.33	
TNFRSF9	1p36.23	https://www.omim.org/entry/602250
TNFSF11	13q14.11	https://www.omim.org/entry/602642
TNFSF12	17p13.1	
TNFSF4	1q25.1	
TNIK	3q26.2-q26.3	https://www.omim.org/entry/610005
TNNC1	3p21.1	https://www.omim.org/entry/191040
TNNC2	20q13.12	https://www.omim.org/entry/191039
TNNI2	11p15.5	https://www.omim.org/entry/191043
TNNI3	19q13.42	https://www.omim.org/entry/191044
TNNI3K	1p31.1	https://www.omim.org/entry/613932
TNNT1	19q13.42	https://www.omim.org/entry/191041
TNNT2	1q32.1	https://www.omim.org/entry/191045
TNNT3	11p15.5	https://www.omim.org/entry/600692
TNPO2	19p13.13	https://www.omim.org/entry/603002
TNPO3	7q32.1	https://www.omim.org/entry/610032
TNR	1q25.1	https://www.omim.org/entry/601995
TNRC6B	22q13.1	https://www.omim.org/entry/610740

TNS2	12q13.13	
TNXB	6p21.33-p21.1	https://www.omim.org/entry/600985
TOE1	1p34.1	https://www.omim.org/entry/613931
TOGARAM1	14q21.2	https://www.omim.org/entry/617618
TOMM7	7p15.3	https://www.omim.org/entry/607980
TOMM70	3q12.2	
TONSL	8q24.3	https://www.omim.org/entry/604546
TOP1	20q12	https://www.omim.org/entry/126420
TOP2A	17q21.2	https://www.omim.org/entry/126430
TOP2B	3p24.2	https://www.omim.org/entry/126431
TOP3A	17p11.2	https://www.omim.org/entry/601243
TOP6BL	11q13.2	https://www.omim.org/entry/616109
TOPORS	9p21.1	https://www.omim.org/entry/609507
TOR1A	9q34.11	https://www.omim.org/entry/605204
TOR1AIP1	1q25.2	
TP53	17p13.1	https://www.omim.org/entry/191170
TP53RK	20q13.12	https://www.omim.org/entry/608679
TP63	3q28	https://www.omim.org/entry/603273
TP73	1p36.32	https://www.omim.org/entry/601990
TPH1	11p15.1	
TPH2	12q21.1	
TP11	12p13.31	https://www.omim.org/entry/190450
TPK1	7q35	https://www.omim.org/entry/606370
TPM1	15q22.2	https://www.omim.org/entry/191010
TPM2	9p13.3	https://www.omim.org/entry/190990
TPM3	1q21.3	https://www.omim.org/entry/191030
TPM4	19p13.12-p13	https://www.omim.org/entry/600317
TPMT	6p22.3	
TPO	2p25.3	https://www.omim.org/entry/606765
TPP1	11p15.4	https://www.omim.org/entry/607998
TPP2	13q33.1	https://www.omim.org/entry/190470
TPRKB	2p13.1	https://www.omim.org/entry/608680
TPRN	9q34.3	https://www.omim.org/entry/613354
TPSAB1	16p13.3	
TRA2B	3q27.2	
TRAF3	14q32.32	
TRAF3IP1	2q37.3	https://www.omim.org/entry/607380
TRAF3IP2	6q21	
TRAF7	16p13.3	https://www.omim.org/entry/606692
TRAIP	3p21.31	https://www.omim.org/entry/605958
TRAK1	3p22.1	https://www.omim.org/entry/608112
TRAP1	16p13.3	
TRAPPC10	21q22.3	https://www.omim.org/entry/602103
TRAPPC11	4q35.1	https://www.omim.org/entry/614138
TRAPPC12	2p25.3	https://www.omim.org/entry/614139
TRAPPC2L	16q24.3	https://www.omim.org/entry/610970
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TRAPPC6B	14q21.1	https://www.omim.org/entry/610397
TRAPPC9	8q24.3	https://www.omim.org/entry/611966
TRDN	6q22.31	https://www.omim.org/entry/603283

TREH	11q23.3	https://www.omim.org/entry/275360
TREM2	6p21.1	https://www.omim.org/entry/605086
TREX1	3p21.31	https://www.omim.org/entry/606609
TRHR	8q23.1	https://www.omim.org/entry/188545
TRIM2	4q31.3	https://www.omim.org/entry/614141
TRIM22	11p15.4	
TRIM28	19q13.43	
TRIM32	9q33.1	https://www.omim.org/entry/602290
TRIM37	17q22	https://www.omim.org/entry/605073
TRIM63	1p36.11	
TRIM71	3p22.3	https://www.omim.org/entry/618570
TRIM8	10q24.32	https://www.omim.org/entry/606125
TRIO	5p15.2	https://www.omim.org/entry/601893
TRIOBP	22q13.1	https://www.omim.org/entry/609761
TRIP11	14q32.12	https://www.omim.org/entry/604505
TRIP12	2q36.3	https://www.omim.org/entry/604506
TRIP13	5p15.33	https://www.omim.org/entry/604507
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TRMT1	19p13.13	https://www.omim.org/entry/611669
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TRMT5	14q23.1	https://www.omim.org/entry/611023
TRMU	22q13.31	https://www.omim.org/entry/610230
TRNT1	3p26.2	https://www.omim.org/entry/612907
TRPA1	8q21.11	
TRPC6	11q22.1	https://www.omim.org/entry/603652
TRPM1	15q13.3	https://www.omim.org/entry/603576
TRPM3	9q21.12-q21.1	https://www.omim.org/entry/608961
TRPM4	19q13.33	https://www.omim.org/entry/606936
TRPM6	9q21.13	https://www.omim.org/entry/607009
TRPM7	15q21.2	
TRPS1	8q23.3	https://www.omim.org/entry/604386
TRPV3	17p13.2	https://www.omim.org/entry/607066
TRPV4	12q24.11	https://www.omim.org/entry/605427
TRPV6	7q34	https://www.omim.org/entry/606680
TRRAP	7q22.1	https://www.omim.org/entry/603015
TSC1	9q34.13	https://www.omim.org/entry/605284
TSC2	16p13.3	https://www.omim.org/entry/191092
TSEN15	1q25.3	https://www.omim.org/entry/608756
TSEN2	3p25.2	https://www.omim.org/entry/608753
TSEN34	19q13.42	
TSEN54	17q25.1	https://www.omim.org/entry/608755
TSFM	12q14.1	https://www.omim.org/entry/604723
TSHB	1p13.2	https://www.omim.org/entry/188540
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TSHZ1	18q22.3	https://www.omim.org/entry/614427
TSPAN12	7q31.31	https://www.omim.org/entry/613138
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TSPEAR	21q22.3	https://www.omim.org/entry/612920

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TSR2	Xp11.22	
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TTC12	11q23.2	https://www.omim.org/entry/610732
TTC19	17p12	https://www.omim.org/entry/613814
TTC21A	3p22.2	https://www.omim.org/entry/611430
TTC21B	2q24.3	https://www.omim.org/entry/612014
TTC29	4q31.22	https://www.omim.org/entry/618735
TTC5	14q11.2	https://www.omim.org/entry/619014
TTC7A	2p21	https://www.omim.org/entry/609332
TTC8	14q31.3	https://www.omim.org/entry/608132
TTF1	9q34.13	
TTI1	20q11.23	https://www.omim.org/entry/614425
TTI2	8p12	https://www.omim.org/entry/614426
TTLL5	14q24.3	https://www.omim.org/entry/612268
TTN	2q31.2	https://www.omim.org/entry/188840
TTPA	8q12.3	https://www.omim.org/entry/600415
TTR	18q12.1	https://www.omim.org/entry/176300
TUB	11p15.4	
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TUBA3D	2q21.1	https://www.omim.org/entry/617878
TUBA4A	2q35	https://www.omim.org/entry/191110
TUBA8	22q11.21	https://www.omim.org/entry/605742
TUBB	6p21.33	https://www.omim.org/entry/191130
TUBB1	20q13.32	https://www.omim.org/entry/612901
TUBB2A	6p25.2	https://www.omim.org/entry/615101
TUBB2B	6p25.2	https://www.omim.org/entry/612850
TUBB3	16q24.3	https://www.omim.org/entry/602661
TUBB4A	19p13.3	https://www.omim.org/entry/602662
TUBB4B	9q34.3	https://www.omim.org/entry/602660
TUBB8	10p15.3	https://www.omim.org/entry/616768
TUBG1	17q21.31	https://www.omim.org/entry/191135
TUBGCP2	10q26.3	https://www.omim.org/entry/617817
TUBGCP4	15q15.3	https://www.omim.org/entry/609610
TUBGCP6	22q13.33	https://www.omim.org/entry/610053
TUFM	16p11.2	https://www.omim.org/entry/602389
TUFT1	1q21.3	https://www.omim.org/entry/600087
TULP3	12p13.33	https://www.omim.org/entry/604730
TUSC3	8p22	https://www.omim.org/entry/601385
TWIST1	7p21.1	https://www.omim.org/entry/601622
TWIST2	2q37.3	https://www.omim.org/entry/607556
TWNK	10q24.31	https://www.omim.org/entry/606075
TXNDC15	5q31.1	https://www.omim.org/entry/617778
TXNL4A	18q23	https://www.omim.org/entry/611595
TXNRD2	22q11.21	
TYK2	19p13.2	https://www.omim.org/entry/176941
TYMP	22q13.33	https://www.omim.org/entry/131222
TYMS	18p11.32	https://www.omim.org/entry/188350

TYR	11q14.3	https://www.omim.org/entry/606933
TYROBP	19q13.12	https://www.omim.org/entry/604142
TYRP1	9p23	https://www.omim.org/entry/115501
U2AF1	21q22.3	
U2AF2	19q13.42	https://www.omim.org/entry/191318
UBA1	Xp11.3	https://www.omim.org/entry/314370
UBA2	19q13.11	https://www.omim.org/entry/613295
UBA5	3q22.1	https://www.omim.org/entry/610552
UBAP1	9p13.3	https://www.omim.org/entry/609787
UBAP1L	15q22.31	
UBAP2L	1q21.3	https://www.omim.org/entry/616472
UBE2A	Xq24	https://www.omim.org/entry/312180
UBE2T	1q32.1	https://www.omim.org/entry/610538
UBE3A	15q11.2	https://www.omim.org/entry/601623
UBE3B	12q24.11	https://www.omim.org/entry/608047
UBE3C	7q36.3	https://www.omim.org/entry/614454
UBE4A	11q23.3	https://www.omim.org/entry/603753
UBIAD1	1p36.22	https://www.omim.org/entry/611632
UBQLN2	Xp11.21	https://www.omim.org/entry/300264
UBR1	15q15.2	https://www.omim.org/entry/605981
UBR7	14q32.12	https://www.omim.org/entry/613816
UBTF	17q21.31	https://www.omim.org/entry/600673
UCP3	11q13.4	
UFC1	1q23.3	https://www.omim.org/entry/610554
UFM1	13q13.3	https://www.omim.org/entry/610553
UFSP2	4q35.1	https://www.omim.org/entry/611482
UGDH	4p14	https://www.omim.org/entry/603370
UGP2	2p15	https://www.omim.org/entry/191760
UGT1A1	2q37.1	https://www.omim.org/entry/191740
UMOD	16p12.3	https://www.omim.org/entry/191845
UMPS	3q21.2	https://www.omim.org/entry/613891
UNC119	17q11.2	https://www.omim.org/entry/604011
UNC13A	19p13.11	
UNC13D	17q25.3	https://www.omim.org/entry/608897
UNC45A	15q26.1	https://www.omim.org/entry/611219
UNC45B	17q12	https://www.omim.org/entry/611220
UNC79	14q32.12	
UNC80	2q34	https://www.omim.org/entry/612636
UNC93B1	11q13.2	
UNG	12q24.11	https://www.omim.org/entry/191525
UPB1	22q11.23	https://www.omim.org/entry/606673
UPF1	19p13.11	
UPF3B	Xq24	https://www.omim.org/entry/300298
UQCC2	6p21.31	https://www.omim.org/entry/614461
UQCRB	8q22.1	https://www.omim.org/entry/191330
UQCRC1	3p21.31	https://www.omim.org/entry/191328
UQCRC2	16p12.2	https://www.omim.org/entry/191329
UQCRFS1	19q12	https://www.omim.org/entry/191327
UQCRCQ	5q31.1	https://www.omim.org/entry/612080
UROC1	3q21.3	

UROD	1p34.1	https://www.omim.org/entry/613521
UROS	10q26.2	https://www.omim.org/entry/606938
USB1	16q21	https://www.omim.org/entry/613276
USH1G	17q25.1	https://www.omim.org/entry/607696
USP14	18p11.32	
USP18	22q11.21	https://www.omim.org/entry/607057
USP25	21q21.1	
USP26	Xq26.2	https://www.omim.org/entry/300309
USP27X	Xp11.23	https://www.omim.org/entry/300975
USP45	6q16.2	
USP48	1p36.12	https://www.omim.org/entry/617445
USP53	4q26	https://www.omim.org/entry/617431
USP7	16p13.2	https://www.omim.org/entry/602519
USP8	15q21.2	https://www.omim.org/entry/603158
USP9X	Xp11.4	https://www.omim.org/entry/300072
USP9Y	Yq11.221	https://www.omim.org/entry/400005
UVSSA	4p16.3	https://www.omim.org/entry/614632
VAC14	16q22.1-q22.2	https://www.omim.org/entry/604632
VAMP1	12p13.31	https://www.omim.org/entry/185880
VAMP2	17p13.1	https://www.omim.org/entry/185881
VANGL1	1p13.1	https://www.omim.org/entry/610132
VANGL2	1q23.2	https://www.omim.org/entry/600533
VAPB	20q13.32	https://www.omim.org/entry/605704
VARS1	6p21.33	https://www.omim.org/entry/192150
VARS2	6p21.33	https://www.omim.org/entry/612802
VCAN	5q14.2-q14.3	https://www.omim.org/entry/118661
VCL	10q22.2	https://www.omim.org/entry/193065
VCP	9p13.3	https://www.omim.org/entry/601023
VDR	12q13.11	https://www.omim.org/entry/601769
VEGFA	6p21.1	
VEGFC	4q34.3	https://www.omim.org/entry/601528
VGLL2	6q22.1	
VIM	10p13	https://www.omim.org/entry/193060
VIPAS39	14q24.3	https://www.omim.org/entry/613401
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VLDLR	9p24.2	https://www.omim.org/entry/192977
VMA21	Xq28	https://www.omim.org/entry/300913
VPS11	11q23.3	https://www.omim.org/entry/608549
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VPS13B	8q22.2	https://www.omim.org/entry/607817
VPS13C	15q22.2	https://www.omim.org/entry/608879
VPS13D	1p36.22-p36.2	https://www.omim.org/entry/608877
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VPS35L	16p12.3	https://www.omim.org/entry/618981
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VPS41	7p14.1	https://www.omim.org/entry/605485
VPS45	1q21.2	https://www.omim.org/entry/610035

VPS4A	16q23.1	https://www.omim.org/entry/609982
VPS50	7q21.2-q21.3	https://www.omim.org/entry/616465
VPS51	11q13.1	https://www.omim.org/entry/615738
VPS53	17p13.3	https://www.omim.org/entry/615850
VRK1	14q32.2	https://www.omim.org/entry/602168
VSIR	10q22.1	
VSX1	20p11.21	https://www.omim.org/entry/605020
VSX2	14q24.3	https://www.omim.org/entry/142993
VWA1	1p36.33	https://www.omim.org/entry/611901
VWA8	13q14.11	
VWF	12p13.31	https://www.omim.org/entry/613160
WAC	10p12.1	https://www.omim.org/entry/615049
WARS1	14q32.2	https://www.omim.org/entry/191050
WARS2	1p12	https://www.omim.org/entry/604733
WAS	Xp11.23	https://www.omim.org/entry/300392
WASF1	6q21	https://www.omim.org/entry/605035
WASHC4	12q23.3	https://www.omim.org/entry/615748
WASHC5	8q24.13	https://www.omim.org/entry/610657
WBP11	12p12.3	https://www.omim.org/entry/618083
WBP2	17q25.1	https://www.omim.org/entry/606962
WBP4	13q14.11	https://www.omim.org/entry/604981
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WDPCP	2p15	https://www.omim.org/entry/613580
WDR1	4p16.1	https://www.omim.org/entry/604734
WDR11	10q26.12	https://www.omim.org/entry/606417
WDR19	4p14	https://www.omim.org/entry/608151
WDR26	1q42.11-q42.2	https://www.omim.org/entry/617424
WDR35	2p24.1	https://www.omim.org/entry/613602
WDR36	5q22.1	https://www.omim.org/entry/609669
WDR37	10p15.3	https://www.omim.org/entry/618586
WDR4	21q22.3	https://www.omim.org/entry/605924
WDR44	Xq24	
WDR45	Xp11.23	https://www.omim.org/entry/300526
WDR45B	17q25.3	https://www.omim.org/entry/609226
WDR5	9q34.2	
WDR62	19q13.12	https://www.omim.org/entry/613583
WDR72	15q21.3	https://www.omim.org/entry/613214
WDR73	15q25.2	https://www.omim.org/entry/616144
WDR81	17p13.3	https://www.omim.org/entry/614218
WDR83OS	19p13.13	
WDR91	7q33	
WEE2	7q34	https://www.omim.org/entry/614084
WFDC2	20q13.12	https://www.omim.org/entry/617548
WHRN	9q32	https://www.omim.org/entry/607928
WIPF1	2q31.1	https://www.omim.org/entry/602357
WIPI2	7p22.1	
WLS	1p31.3	https://www.omim.org/entry/611514
WNK1	12p13.33	https://www.omim.org/entry/605232
WNK3	Xp11.22	https://www.omim.org/entry/300358
WNK4	17q21.2	https://www.omim.org/entry/601844

WNT10A	2q35	https://www.omim.org/entry/606268
WNT10B	12q13.12	https://www.omim.org/entry/601906
WNT11	11q13.5	
WNT2B	1p13.2	https://www.omim.org/entry/601968
WNT3	17q21.31-q21.32	
WNT5A	3p14.3	https://www.omim.org/entry/164975
WNT7A	3p25.1	https://www.omim.org/entry/601570
WNT7B	22q13.31	
WRAP53	17p13.1	https://www.omim.org/entry/612661
WRN	8p12	https://www.omim.org/entry/604611
WWOX	16q23.1-q23.2	https://www.omim.org/entry/605131
WWP1	8q21.3	
XDH	2p23.1	https://www.omim.org/entry/607633
XIAP	Xq25	https://www.omim.org/entry/300079
XIST	Xq13.2	https://www.omim.org/entry/314670
XK	Xp21.1	https://www.omim.org/entry/314850
XPA	9q22.33	https://www.omim.org/entry/611153
XPC	3p25.1	https://www.omim.org/entry/613208
XPNPEP3	22q13.2	https://www.omim.org/entry/613553
XPR1	1q25.3	https://www.omim.org/entry/605237
XRCC1	19q13.31	
XRCC2	7q36.1	https://www.omim.org/entry/600375
XRCC4	5q14.2	https://www.omim.org/entry/194363
XYLT1	16p12.3	https://www.omim.org/entry/608124
XYLT2	17q21.33	https://www.omim.org/entry/608125
YAP1	11q22.1	https://www.omim.org/entry/606608
YARS1	1p35.1	https://www.omim.org/entry/603623
YARS2	12p11.21	https://www.omim.org/entry/610957
YIF1B	19q13.2	https://www.omim.org/entry/619109
YIPF5	5q31.3	https://www.omim.org/entry/611483
YRDC	1p34.3	https://www.omim.org/entry/612276
YWHAE	17p13.3	
YWHAG	7q11.23	https://www.omim.org/entry/605356
YY1	14q32.2	https://www.omim.org/entry/600013
YY1AP1	1q22	https://www.omim.org/entry/607860
ZAP70	2q11.2	https://www.omim.org/entry/176947
ZBTB11	3q12.3	https://www.omim.org/entry/618181
ZBTB16	11q23.2	https://www.omim.org/entry/176797
ZBTB18	1q44	https://www.omim.org/entry/608433
ZBTB20	3q13.31	https://www.omim.org/entry/606025
ZBTB24	6q21	https://www.omim.org/entry/614064
ZBTB47	3p22.1	
ZBTB7A	19p13.3	https://www.omim.org/entry/605878
ZC3H14	14q31.3	https://www.omim.org/entry/613279
ZC4H2	Xq11.2	https://www.omim.org/entry/300897
ZCCHC8	12q24.31	
ZDHC9	Xq26.1	https://www.omim.org/entry/300646
ZEB1	10p11.22	https://www.omim.org/entry/189909
ZEB2	2q22.3	https://www.omim.org/entry/605802
ZFHX3	16q22.2-q22.3	https://www.omim.org/entry/104155

ZFHX4	8q21.13	
ZFP36L2	2p21	https://www.omim.org/entry/612053
ZFP57	6p22.1	https://www.omim.org/entry/612192
ZFPM2	8q23	https://www.omim.org/entry/603693
ZFTRAF1	8q24.3	
ZFX	Xp22.11	https://www.omim.org/entry/314980
ZFYVE19	15q15.1	https://www.omim.org/entry/619635
ZFYVE26	14q24.1	https://www.omim.org/entry/612012
ZIC1	3q24	https://www.omim.org/entry/600470
ZIC2	13q32.3	https://www.omim.org/entry/603073
ZIC3	Xq26.3	https://www.omim.org/entry/300265
ZMIZ1	10q22.3	https://www.omim.org/entry/607159
ZMPSTE24	1p34.2	https://www.omim.org/entry/606480
ZMYM2	13q12.11	https://www.omim.org/entry/602221
ZMYM3	Xq13.1	https://www.omim.org/entry/300061
ZMYND10	3p21.31	https://www.omim.org/entry/607070
ZMYND11	10p15.3	https://www.omim.org/entry/608668
ZMYND15	17p13.2	
ZMYND8	20q13.12	
ZNF142	2q35	https://www.omim.org/entry/604083
ZNF148	3q21.2	https://www.omim.org/entry/601897
ZNF292	6q14.3	https://www.omim.org/entry/616213
ZNF335	20q13.12	https://www.omim.org/entry/610827
ZNF341	20q11.22	https://www.omim.org/entry/618269
ZNF407	18q23	https://www.omim.org/entry/615894
ZNF408	11p11.2	https://www.omim.org/entry/616454
ZNF423	16q12.1	https://www.omim.org/entry/604557
ZNF462	9q31.2	https://www.omim.org/entry/617371
ZNF469	16q24.2	https://www.omim.org/entry/612078
ZNF526	19q13.2	https://www.omim.org/entry/614387
ZNF644	1p22.2	https://www.omim.org/entry/614159
ZNF668	16p11.2	https://www.omim.org/entry/617103
ZNF687	1q21.3	https://www.omim.org/entry/610568
ZNF699	19p13.2	https://www.omim.org/entry/609571
ZNF711	Xq21.1	https://www.omim.org/entry/314990
ZNF750	17q25.3	
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ZNHIT3	17q12	https://www.omim.org/entry/604500
ZNRF3	22q12.1	
ZP1	11q12.2	https://www.omim.org/entry/195000
ZP2	16p12.3-p12.1	https://www.omim.org/entry/182888
ZP3	7q11.23	https://www.omim.org/entry/182889
ZRSR2	Xp22.2	https://www.omim.org/entry/300028
ZSCAN10	16p13.3	https://www.omim.org/entry/618365
ZSWIM6	5q12.1	https://www.omim.org/entry/615951
ZSWIM7	17p12	https://www.omim.org/entry/614535

Zufallsbefunde

Symbol	Location	OMIM_url
ACTA1	1q42.13	https://www.omim.org/entry/102610
ACTA2	10q23.31	https://www.omim.org/entry/102620
ACVRL1	12q13.13	https://www.omim.org/entry/601284
APC	5q22.2	https://www.omim.org/entry/611731
APOB	2p24.1	https://www.omim.org/entry/107730
ATP7B	13q14.3	https://www.omim.org/entry/606882
BAG3	10q26.11	https://www.omim.org/entry/603883
BMPR1A	10q23.2	https://www.omim.org/entry/601299
BRCA1	17q21.31	https://www.omim.org/entry/113705
BRCA2	13q13.1	https://www.omim.org/entry/600185
BTD	3p25.1	https://www.omim.org/entry/609019
CACNA1S	1q32.1	https://www.omim.org/entry/114208
CALM1	14q32.11	https://www.omim.org/entry/114180
CALM2	2p21	https://www.omim.org/entry/114182
CALM3	19q13.32	https://www.omim.org/entry/114183
CASQ2	1p13.1	https://www.omim.org/entry/114251
COL3A1	2q32.2	https://www.omim.org/entry/120180
DES	2q35	https://www.omim.org/entry/125660
DSC2	18q12.1	https://www.omim.org/entry/125645
DSG2	18q12.1	https://www.omim.org/entry/125671
DSP	6p24.3	https://www.omim.org/entry/125647
ENG	9q34.11	https://www.omim.org/entry/131195
FBN1	15q21.1	https://www.omim.org/entry/134797
FLNC	7q32.1	https://www.omim.org/entry/102565
GAA	17q25.3	https://www.omim.org/entry/606800
GLA	Xq22.1	https://www.omim.org/entry/300644
HFE	6p22.2	https://www.omim.org/entry/613609
HNF1A	12q24.31	https://www.omim.org/entry/142410
KCNH2	7q36.1	https://www.omim.org/entry/152427
KCNQ1	11p15.5-p15.4	https://www.omim.org/entry/607542
LDLR	19p13.2	https://www.omim.org/entry/606945
LMNA	1q22	https://www.omim.org/entry/150330
MAX	14q23.3	https://www.omim.org/entry/154950
MEN1	11q13	https://www.omim.org/entry/613733
MLH1	3p22.2	https://www.omim.org/entry/120436
MSH2	2p21-p16.3	https://www.omim.org/entry/609309
MSH6	2p16.3	https://www.omim.org/entry/600678
MUTYH	1p34.1	https://www.omim.org/entry/604933
MYBPC3	11p11.2	https://www.omim.org/entry/600958
MYH11	16p13.11	https://www.omim.org/entry/160745
MYH7	14q11.2	https://www.omim.org/entry/160760
MYL2	12q24.11	https://www.omim.org/entry/160781
MYL3	3p21.31	https://www.omim.org/entry/160790
NF2	22q12.2	https://www.omim.org/entry/607379
OTC	Xp11.4	https://www.omim.org/entry/300461
PALB2	16p12.2	https://www.omim.org/entry/610355
PCSK9	1p32.3	https://www.omim.org/entry/607786
PKP2	12p11.21	https://www.omim.org/entry/602861

<i>PMS2</i>	7p22.1	https://www.omim.org/entry/600259
<i>PRKAG2</i>	7q36.1	https://www.omim.org/entry/602743
<i>PTEN</i>	10q23.31	https://www.omim.org/entry/601728
<i>RB1</i>	13q14.2	https://www.omim.org/entry/614041
<i>RBM20</i>	10q25.2	https://www.omim.org/entry/613171
<i>RET</i>	10q11.21	https://www.omim.org/entry/164761
<i>RPE65</i>	1p31.3	https://www.omim.org/entry/180069
<i>RYR1</i>	19q13.2	https://www.omim.org/entry/180901
<i>RYR2</i>	1q43	https://www.omim.org/entry/180902
<i>SCN5A</i>	3p22.2	https://www.omim.org/entry/600163
<i>SDHAF2</i>	11q12.2	https://www.omim.org/entry/613019
<i>SDHB</i>	1p36.13	https://www.omim.org/entry/185470
<i>SDHC</i>	1q23.3	https://www.omim.org/entry/602413
<i>SDHD</i>	11q23.1	https://www.omim.org/entry/602690
<i>SMAD3</i>	15q22.33	https://www.omim.org/entry/603109
<i>SMAD4</i>	18q21.2	https://www.omim.org/entry/600993
<i>STK11</i>	19p13.3	https://www.omim.org/entry/602216
<i>TGFBR1</i>	9q22.33	https://www.omim.org/entry/190181
<i>TGFBR2</i>	3p24.1	https://www.omim.org/entry/190182
<i>TMEM127</i>	2q11.2	
<i>TMEM43</i>	3p25.1	https://www.omim.org/entry/612048
<i>TNNC1</i>	3p21.1	https://www.omim.org/entry/191040
<i>TNNI3</i>	19q13.42	https://www.omim.org/entry/191044
<i>TNNT2</i>	1q32.1	https://www.omim.org/entry/191045
<i>TP53</i>	17p13.1	https://www.omim.org/entry/191170
<i>TPM1</i>	15q22.2	https://www.omim.org/entry/191010
<i>TRDN</i>	6q22.31	https://www.omim.org/entry/603283
<i>TSC1</i>	9q34.13	https://www.omim.org/entry/605284
<i>TSC2</i>	16p13.3	https://www.omim.org/entry/191092
<i>TTN</i>	2q31.2	https://www.omim.org/entry/188840
<i>TTR</i>	18q12.1	https://www.omim.org/entry/176300
<i>VHL</i>	3p25.3	https://www.omim.org/entry/608537
<i>WT1</i>	11p13	https://www.omim.org/entry/607102
<i>ATM</i>	11q22.3	https://www.omim.org/entry/607585
<i>CHEK2</i>	22q12.1	https://www.omim.org/entry/604373