

Samenstelling van het ID_Gene_Panelv4

gen	overerving
A2ML1	AD
ABCC9	AD
ABCD1	XLR
ABCD4	AR
ABHD5	AR
ACAD9	AR
ACBD6	
ACO2	AR
ACOX1	AR
ACSF3	AR
ACSL4	XL
ACTB	AD
ACTG1	AD
ACTL6A	AD
ACTL6B	AR
ACVR1	AD
ACY1	AR
ADAR	AR
ADAT3	AR
ADGRG1	AR
ADGRG6	AR
ADK	AR
ADNP	AD
ADPRHL2	AR
ADRA2B	AD/AR
ADSL	AR
AFF2	XLR
AFF3	
AGA	AR
AGO4	AD
AGPAT2	AR
AGTR2	
AHCY	AR
AHDC1	AD
AHI1	AR
AIFM1	XLR
AIMP1	AR
AK1	AR
AKT3	AD
ALDH18A1	AD/AR
ALDH3A2	AR
ALDH4A1	AR
ALDH5A1	AR
ALG1	AR
ALG12	
ALG13	XLR
ALG2	AR
ALG3	AR
ALG6	AR
ALG8	
ALG9	AR
ALX1	AR
ALX4	AD/AR
AMPD2	AR
AMT	AR
ANK2	AD
ANK3	AR
ANKH	AD
ANKRD11	AD
ANO10	AR
ANP32A	AD
ANTXR1	AR
AP1S2	XL
AP3B1	AR
AP3B2	AR
AP4B1	AR
AP4E1	AR
AP4M1	AR
AP4S1	AR
APTX	AR
ARFGEF2	AR
ARG1	AR
ARHGEF6	XLR
ARHGEF9	XLR
ARID1A	AD
ARID1B	AD
ARID2	
ARL13B	AR

Samenstelling van het ID_Gene_Panelv4

gen	overerving
ARL14EP	AR
ARL3	AR
ARL6	AR
ARMC9	AR
ARSE	XLR
ARX	XLR
ASCL1	AD
ASH1L	AD
ASL	AR
ASNS	AR
ASPA	AR
ASPM	AR
ASXL1	AD
ASXL2	AD
ASXL3	
ATAD3A	AR
ATIC	AR
ATM	AR
ATP1A1	AD
ATP1A2	AD
ATP1A3	AD
ATP2A2	AD
ATP6AP2	AR
ATP6V0A2	AR
ATP7A	XLR
ATP8A2	AR
ATR	AR
ATRX	XLD/XLR
AUH	AR
AUTS2	AD
AVPR2	XLR
B3GLCT	AR
B4GALT1	AR
B4GALT7	AR
BAZ2B	AD
BBS1	AR
BBS10	AR
BBS12	AR
BBS2	AR
BBS4	AR
BBS5	AR
BBS7	AR
BBS9	AR
BCKDHA	AR
BCKDHB	AR
BCL11A	AD
BCOR	XL
BCS1L	Mitochondrial/AR
BLM	AR
BPTF	AD
BRAF	AD
BRAT1	AR
BRPF1	AD
BRWD3	XLR
BSCL2	AD/AR
BTD	AR
BTK	XLR
BUB1B	AR
C12ORF57	AR
C5ORF42	AR
CA2	AR
CA8	AR
CACNA1A	AD
CACNA1E	AD
CACNA1G	AD/AR
CACNG2	AD
CAMK2A	AD
CAMK2B	AD
CAMTA1	AD
CAPN10	
CAPN15	AD
CAPRN1	AD
CASK	XLD
CASZ1	AD
CBL	AD
CBS	AR
CC2D1A	AR
CC2D2A	AR

Samenstelling van het ID_Gene_Panelv4

gen	overerving
CCBE1	AR
CCDC22	XLR
CCDC47	AR
CCDC78	AD
CCNK	AD
CCNQ	XLD
CDC42	AD
CDC42BPB	AD
CDH15	AD
CDK10	AR
CDK13	AD
CDK5RAP2	AR
CDKL5	XLD
CDON	AD
CELF2	AD
CENPJ	AR
CEP135	AR
CEP152	AR
CEP290	AR
CEP41	AR
CHAMP1	AD
CHD2	AD
CHD3	
CHD4	AD
CHD7	AD
CHD8	
CHKB	Mitochondrial
CHL1	AD
CHMP1A	AR
CIT	AR
CLCN4	XLR
CLCNKB	
CLIC2	XLR
CLN3	AR
CLN5	AR
CLN6	AR
CLN8	AR
CLTC	AD
CLTCL1	AD
CNKSR1	AR
CNKSR2	XL
CNOT3	AD
CNTNAP2	
COG1	AR
COG6	AR
COG7	
COG8	AR
COL4A1	AD
COL4A2	AD
COL4A3BP	AD
COLEC11	AR
COQ2	AR
COQ8A	AR
COX10	Mitochondrial/AR
COX15	AR
CPS1	AR
CRADD	AR
CRBN	AR
CREBBP	AD
CSF2RA	XL
CSNK2A1	AD
CSNK2B	AD
CTCF	AD
CTDP1	AR
CTNNA1	AD
CTSA	AR
CTSD	AR
CTTNBP2	
CUL4B	XLR
CUX2	AD
CXorf56	XR
CYB5R3	AR
CYP7B1	AR
D2HGDH	AR
DARS2	AR
DBT	AR
DCAF17	AR
DCX	XL

Samenstelling van het ID_Gene_Panelv4

gen	overerving
DDHD2	AR
DDOST	AR
DDX11	AR
DDX3X	XLD
DEAF1	AD/AR
DENND5A	
DHCR24	AR
DHCR7	AR
DHFR	AR
DHTKD1	AR
DHX30	AD
DIP2B	AD
DKC1	XLR
DLD	AR
DLG3	XL
DLG4	
DLX3	AD
DMD	XLR
DMPK	AD
DNAJC12	AR
DNAJC19	AR
DNM1	AD
DNMT3A	AD
DNMT3B	AR
DOCK8	AD
DPAGT1	AD/AR
DPH1	
DPM1	AR
DPP6	AD
DPYD	AR
DSCAM	AD
DUSP15	AD
DVL3	AD
DYM	AR
DYNC1H1	AD
DYRK1A	AD
EBF3	AD
EBP	XLR/XLD
EEF1A2	AD
EEF1B2	AR
EFTUD2	AD
EHMT1	AD
EIF2AK3	AR
EIF2S3	XLR
EIF4G1	
ELOVL4	AD
ELP2	AR
EMC1	AR
EMX2	
ENTPD1	AR
EP300	AD
EPB41L1	AD
EPRS	AR
ERCC2	AR
ERCC3	AR
ERCC5	AR
ERCC6	AR
ERCC8	AR
ERLIN2	AR
ESCO2	AR
ETFB	AR
ETHE1	AR
EXOSC3	AR
EXOSC9	AR
EZH2	AD
FAM126A	AR
FAM200A	AD
FAM200B	AD
FANCL	AR
FAT4	AR
FBN1	AD
FBXL3	AR
FBXO11	AD
FBXO31	AR
FGD1	XLR
FGFR1	AD
FGFR2	AD
FGFR3	AR

Samenstelling van het ID_Gene_Panelv4

gen	overerving
FH	AR
FIGN	AD
FKRP	AR
FKTN	AR
FLNA	XL
FLVCR1	AR
FMN2	AR
FMR1	XLD
FOSL2	AD
FOXG1	AD
FOXP1	AD
FOXP2	AD
FRAS1	AR
FRMPD4	XLR
FRRS1L	AR
FTL	AD
FTO	AR
FTSJ1	XLR
FUCA1	AR
FUK	AR
GABBR2	AD
GABRA1	AD
GABRB2	AD
GABRB3	AD
GABRG2	AD
GAD1	AR
GALE	AR
GALT	AR
GAMT	AR
GATAD2B	AD
GATM	AR
GCDH	AR
GCH1	AR
GCSH	AR
GDI1	XL
GFAP	AD
GIGYF1	AD
GJB1	XLR
GJC2	AR
GK	XLD
GLB1	AR
GLDC	AR
GLI2	AD
GLI3	AD
GM2A	AR
GMPPA	AR
GMPPB	AR
GNAI1	AD
GNAO1	AD
GNAS	AD
GNB1	AD
GNB5	AR
GNPAT	AR
GNS	AR
GPAA1	
GPC3	XLR
GPHN	
GPRIN1	AD
GPT2	AR
GRIA1	AD
GRIA2	AD
GRIA3	XLR
GRIA4	
GRID2	AR
GRIK2	AR
GRIN1	AD
GRIN2A	AD
GRIN2B	AD
GRIN2D	AD
GRIN3B	
GRIPAP1	AD
GRM1	AR
GSE1	
GSPT2	XL
GSS	AR
GTF2E2	AR
GTF2H5	AR
GTPBP2	AR

Samenstelling van het ID_Gene_Panelv4

gen	overerving
GUSB	AR
HAX1	AR
HCCS	XLD
HCFC1	XL
HCN1	AD
HDAC4	
HDAC6	XLD
HDAC8	XL
HECTD1	
HECW2	AD
HERC1	AR
HERC2	AR
HESX1	AR
HEXA	AR
HEXB	
HGSNAT	AR
HIST1H1E	AD
HIVEP2	AD
HIVEP3	AD
HLCS	AR
HMGXB3	AD
HNRNPD	AD
HNRNPH2	XLD
HNRNPK	AD
HNRNPU	AD
HOXA1	
HPD	AR
HPRT1	XLR
HRAS	AD
HSD17B10	XL
HSPD1	AD/AR
HUWE1	XL
IARS	AR
IDS	XLR
IDUA	AR
IER3IP1	AR
IFT172	AR
IGBP1	XLR
IGF1	AR
IGSF1	XLR
IKBK	XLD
IL1RAPL1	XLR
INPP5E	AR
IQSEC2	XLD
IRF2BPL	AD
ISPD	AR
ITPR1	AR
JAG1	AD
JAM3	AR
KANK1	AD with maternal imprinting
KANSL1	AD
KAT6A	AD
KAT6B	AD
KCNC1	AD
KCNC3	AD
KCND3	AD
KCNH1	AD
KCNJ10	AR
KCNJ11	AD
KCNJ6	AD
KCNK4	AD
KCNK9	AD
KCNQ2	AD
KCNQ3	AD
KCNQ5	
KCNS3	AD
KCNT1	AD
KCTD7	AR
KDM1A	AD
KDM5B	AD
KDM5C	XLR
KDM6A	XLD
KDM6B	AR
KIAA1109	
KIF11	AD
KIF1A	AD/AR
KIF1BP	AR
KIF4A	XLR

Samenstelling van het ID_Gene_Panelv4

gen	overerving
KIF5C	AD
KIF7	AD/AR
KIRREL3	AD
KLHL15	XLR
KLHL7	AD/AR
KMT2A	AD
KMT2B	
KMT2C	
KMT2D	AD
KMT5B	
KPTN	AR
KRAS	AD
L1CAM	XLR
L2HGDH	AR
LAMA1	AR
LAMA2	AR
LAMC3	AR
LAMP2	XLD
LARGE1	AR
LARP4B	AD
LARP7	AR
LAS1L	XLR
LEO1	AD
LIG4	
LINGO1	AR
LINS1	AR
LRP2	AR
LRPPRC	AR
MAB21L1	AR
MACF1	AD
MAGEL2	AD
MAGT1	XL
MAN1B1	AR
MAN2B1	AR
MANBA	AR
MAOA	XLR
MAOB	XL
MAP1B	AD
MAP2K1	AD
MAP2K2	
MAT1A	AD
MBD5	AD
MBOAT7	AR
MBTPS2	XLR
MCCC1	AR
MCCC2	AR
MCOLN1	AR
MCPH1	AR
MDH2	AR
MECP2	XL
MED12	XLR
MED13	AD
MED13L	AD
MED17	AR
MED23	AR
MEF2C	AD
MEIS2	AD
METTL23	AR
MGAT2	AR
MID1	XLR
MKKS	AR
MLC1	AR
MLH1	AR
MLYCD	AR
MMAA	AR
MMAB	AR
MMACHC	AR
MMADHC	AR
MN1	AD
MOCS1	AR
MOCS2	AR
MOGS	AR
MPDU1	AR
MPDZ	AR
MRPS22	AR
MSL3	XL
MTHFR	AR
MTR	AR

Samenstelling van het ID_Gene_Panelv4

gen	overerving
MTRR	AR
MUT	AR
MVK	AR
MXRA5	XL
MYCN	AD
MYH9	AD
MYO5A	AR
MYT1L	AD
NAA10	XLD
NAA15	AD
NACC1	AD
NAGA	AR
NAGLU	AR
NALCN	AD/AR
NAXD	
NBN	AR
NCAN	AD
NDE1	AR
NDP	XLR
NDST1	AR
NDUFA1	XLD
NDUFA11	XLD
NDUFA12	Mitochondrial
NDUFA6	AR
NDUFS1	AR
NDUFS2	XLD
NDUFS3	AR
NDUFS4	Mitochondrial
NDUFS7	Mitochondrial
NDUFS8	Mitochondrial
NDUFV1	Mitochondrial
NEDD4L	AD
NEU1	AR
NEXMIF	XLR
NF1	AD
NFATC1	
NFE2L3	AD
NFIA	
NFIB	AD
NFIX	AD
NHS	XLD
NIPBL	AD
NLGN3	XL
NLGN4X	Multifactorial
NLRP3	AD
NONO	XLR
NPHP1	AR
NR1I3	AD
NR2F1	AD
NR4A2	AD
NRAS	
NRXN1	AR
NRXN2	AD
NSD1	AD
NSD2	AD
NSDHL	XL
NSUN2	AR
NXF5	XL
OCLN	AR
OCRL	XLR
ODC1	
OFD1	XL
OGT	XL
OPHN1	XLR
ORC1	AR
OTC	XLR
OTUD6B	AR
PACS1	AD
PACS2	AD
PAFAH1B1	
PAH	AR
PAK1	AD
PAK3	XLR
PANK2	AR
PAX1	AR
PAX5	AD
PAX6	AD/AR
PAX8	AD

Samenstelling van het ID_Gene_Panelv4

gen	overerving
PAXX	AD
PC	AR
PCDH19	XL
PCGF2	AD
PCNT	AR
PDCD11	AD
PDE4D	AD
PDHA1	XLD
PDSS1	AR
PDSS2	AR
PEPD	AR
PEX1	AR
PEX10	AR
PEX11B	AR
PEX12	AR
PEX13	AR
PEX16	AR
PEX19	AR
PEX2	AR
PEX26	AR
PEX3	AR
PEX5	AR
PEX6	AR
PEX7	AR
PGAP1	AR
PGAP2	AR
PGAP3	AR
PGK1	XLR
PHF12	AD
PHF21A	
PHF3	AD
PHF6	XLR
PHF8	XLR
PHGDH	AR
PHIP	
PIDD1	AR
PIGG	AR
PIGL	AR
PIGN	AR
PIGO	AR
PIGS	AR
PIGT	AR
PIGV	AR
PIK3CA	AD
PIK3R2	AD
PLA2G6	AR
PLAA	AR
PLCB1	AR
PLP1	XLR
PMM2	AR
PMPCB	AR
PNKP	AR
PNP	AR
POC1A	AR
POGZ	AD
POLA1	XLR
POLG	AR
POLR3A	AR
POLR3B	AR
POMGNT1	AR
POMT1	AR
POMT2	AR
PORCN	XLD
POU1F1	AD
POU3F2	AD
POU3F3	
PPM1D	AD
PPOX	AD
PPP1CB	AD
PPP1R21	AR
PPP2R1A	AD
PPP2R5D	AD
PPP3CA	AD
PPT1	AR
PQBP1	XLR
PRKD1	AD
PRODH	AR
PRPF40A	AD

Samenstelling van het ID_Gene_Panelv4

gen	overerving
PRPS1	XLR
PRR12	AD
PRRT2	AD
PRSS12	AR
PSAP	AR
PSEN1	AD
PSMD12	AD
PTCH1	AD
PTCHD1	XL
PTDSS1	AD
PTEN	AD
PTPN11	AD
PUF60	AD
PUM1	AD
PURA	AD
PUS1	AR
PUS7	AD
PYCR1	AR
QRICH1	AD
RAB11B	
RAB18	AR
RAB27A	AR
RAB39B	XL
RAB3GAP1	AR
RAB3GAP2	AR
RAB40AL	XL
RAC1	
RAC3	AD
RAD21	AD
RAF1	AD
RAI1	AD
RALGAPB	AD
RARS2	AR
RBM10	XLR
RBM28	AR
RCBTB1	AR
RELN	AD
RERE	AD
RFT1	AR
RIT1	AD
RLIM	XLR
RMND1	AR
RNASEH2A	AR
RNASEH2B	AR
RNASEH2C	AR
RNASET2	AR
RNFT2	AR
ROGDI	AR
RPGRIP1L	AR
RPL10	XL
RPL26	AD
RPS6KA3	XLD
RTEL1	AR
RUBCN	AR
RYR2	AD
SALL1	AD
SALL3	AD
SATB2	AD
SC5D	AR
SCAPER	AR
SCN1A	AD
SCN1B	AR
SCN2A	AD
SCN8A	AD
SCO2	AR
SDHA	AR
SERAC1	AR
SET	AD
SETBP1	AD
SETD1B	AD
SETD2	AD
SETD5	AD
SGSH	AR
SHANK1	AD
SHANK2	
SHANK3	
SHH	AD
SHOC2	AD

Samenstelling van het ID_Gene_Panelv4

gen	overerving
SHROOM4	XL
SIL1	AR
SIN3A	AD
SIX3	AD
SKI	AD
SKIDA1	AD
SLC12A6	AR
SLC16A2	XLD
SLC17A5	AR
SLC1A1	
SLC1A2	AD
SLC1A4	AR
SLC25A15	AR
SLC25A22	AR
SLC2A1	AD
SLC33A1	AD
SLC35A2	XLD
SLC35C1	AR
SLC35C2	AD
SLC4A4	AR
SLC6A1	AD
SLC6A17	AR
SLC6A3	AR
SLC6A8	XLR
SLC6A9	AR
SLC7A7	AR
SLC9A6	XLD
SLC9A7	AD
SMAD4	AD
SMAD6	AD
SMARCA2	AD
SMARCA4	AD
SMARCB1	AD
SMARCC2	AD
SMARCD2	AR
SMARCE1	AD
SMC1A	XLR
SMC3	AD
SMG9	AR
SMO	
SMOC1	AR
SMPD1	AR
SMS	XLR
SNAP25	AD
SNAP29	AR
SNIP1	AR
SNX14	AR
SOBP	AR
SON	AD
SOS1	AD
SOX10	AD
SOX11	AD
SOX2	AD
SOX3	XL
SOX5	AD
SPAST	AD
SPEN	AD
SPG11	AR
SPR	AR
SPRED1	AD
SPRED2	AD
SPRY2	AD
SPTAN1	AD
SPTBN4	AR
SPTLC2	AD
SQSTM1	AD
SRCAP	AD
SRD5A3	AR
SRGAP3	
SRPX2	AD
SRRM2	AD
SRSF11	AD
ST3GAL3	
ST3GAL5	AR
STAG1	
STARD9	AD
STIL	AR
STRA6	AR

Samenstelling van het ID_Gene_Panelv4

gen	overerving
STT3A	AR
STT3B	AR
STXBP1	AD
SUCLA2	AR
SUFU	AD/AR
SUOX	AR
SURF1	AR
SYN1	XLD
SYNCRIP	
SYNE1	AR
SYNGAP1	AD
SYT1	XLD
SYT14	AD
SYT14	AR
TAB2	AD
TAF1	XLR
TAF13	AR
TAF2	AR
TAT	AR
TBC1D23	AR
TBC1D24	AD/AR
TBC1D7	
TBCD	AR
TBCE	AR
TBCK	AR
TBL1XR1	AD/AR
TBR1	
TCF12	AD
TCF20	
TCF4	AD
TCF7L2	
TECR	AR
TELO2	AR
TFAP2A	AD
TGFBR1	
TGFBR2	AD
TGIF1	AD
THAP1	AD
THOC2	XLR
THOC6	AR
THRB	AD
TIMM8A	XLR
TKT	AR
TLK2	
TMCO1	
TMEM165	AR
TMEM231	AR
TMEM237	AR
TMEM260	AR
TMEM67	AR
TMEM94	AD
TMLHE	XL
TMTC3	AR
TNRC6B	AD
TPP1	AR
TRA2B	AD
TRAF7	AD
TRAPPC11	AR
TRAPPC12	AR
TRAPPC9	AR
TREX1	AD/AR
TRIO	AD
TRIP12	
TRMT1	
TRMT10A	AR
TRMT10C	AR
TRPM7	AD
TSC1	AD
TSC2	AD
TSEN15	AR
TSEN2	AR
TSEN34	AR
TSEN54	AR
TSPAN7	XLR
TTC5	AR
TTC8	AR
TTI2	AR
TUBA1A	AD

Samenstelling van het ID_Gene_Panelv4

gen	overerving
TUBA8	AR
TUBAL3	AR
TUBB2A	AD
TUBB2B	AR
TUBGCP6	AR
TUSC3	AR
TWIST1	AD
UBA5	AR
UBE2A	XLR
UBE3A	AD
UBE3B	AR
UBR1	AR
UBTF	
UNC80	AR
UPB1	AR
UPF3B	XLR
USP27X	XLR
USP7	AD
USP9X	XLD/XLR
VAC14	AR
VEZF1	AD
VLDLR	AR
VPS13B	AR
VRK1	AR
WAC	AD
WASF1	AD
WASHC4	AR
WDFY3	AD
WDR11	AD
WDR13	XL
WDR19	AR
WDR26	AD
WDR45	XLD
WDR45B	AR
WDR62	AR
WDR81	AR
WDR87	AD
WWOX	AR
XPA	AR
XPNPEP3	AR
XYLT1	AR
YAP1	AD
YTHDF3	AD
YWHAE	
YY1	
ZBTB10	AD
ZBTB11	AR
ZBTB16	AR
ZBTB18	AD
ZBTB7A	AD
ZC3H14	AR
ZC4H2	XL
ZDHHC15	XL
ZDHHC9	XL
ZEB2	AD
ZFHX3	AD
ZFYVE26	AR
ZIC2	AD
ZMYM3	XL
ZMYND11	AD
ZNF215	AD
ZNF292	AD
ZNF41	XL
ZNF462	AD
ZNF526	AR
ZNF592	AR
ZNF674	XL
ZNF711	XL
ZNF81	XLR
ZSWIM6	AD