

# Verstandelijke beperking: syndromaal/niet syndromaal

Verstandelijke beperking

1234

VBE01v22.1

<b>Gennaam</b>	<b>CreV4 (15X)</b>	<b>SSv7 (15X)</b>
ATAD3A	98.7	96.5
TMEM240	100	99.9
GNB1	100	100
SKI	99.8	98.5
PEX10	99.6	100
CAMTA1	98.9	99.2
RERE	98.6	99.9
NMNAT1	100	100
PEX14	100	100
MTOR	100	100
MTHFR	100	100
ATP13A2	100	99.9
ALDH4A1	100	100
EMC1	100	100
DDOST	100	100
CDC42	100	100
KDM1A	100	99.9
HNRNPR	99.3	100
GALE	100	100
HMGCL	100	100
FUCA1	100	100
DHDDS	100	100
ARID1A	99.5	97.3
PIGV	100	100
AHDC1	100	99.3
MACF1	100	100
TRIT1	100	100
MFSD2A	100	100
PPT1	100	100
CCDC23	100	100
SLC2A1	100	100
SZT2	100	99.9
ST3GAL3	99.9	100
SLC6A9	100	100
TOE1	100	100
MMACHC	100	100
POMGNT1	100	100
STIL	100	100
ORC1	100	100
PARS2	100	100
DHCR24	100	100
NFIA	100	97.3
DOCK7	100	99.1
ALG6	100	98.9

**Gennaam CreV4 (15X) SSv7 (15X)**

ACADM	99.9	99.3
PIGK	99.9	100
HS2ST1	100	100
DPYD	100	96.1
DBT	100	99.7
GPSM2	99.9	100
AMPD2	100	100
SLC6A17	100	100
KCNA2	100	100
KCND3	100	100
AP4B1	100	100
NRAS	100	100
CSDE1	100	100
TSHB	100	100
ATP1A1	100	100
WARS2	100	100
PHGDH	100	100
PEX11B	100	100
PRUNE	100	100
POGZ	100	100
GATAD2B	100	100
HAX1	100	100
ADAR	100	100
ASH1L	100	100
RIT1	100	100
APOA1BP	100	100
NTRK1	100	100
KCNJ10	100	100
ATP1A2	100	100
PEX19	100	100
UFC1	100	100
NDUFS2	100	100
PBX1	100	100
TMCO1	100	99.3
PIGC	100	100
DARS2	100	100
CACNA1E	100	100
GLUL	100	100
TSEN15	100	100
KCNT2	99.8	97.2
ASPM	100	99.4
KIF14	100	97.7
DDX59	100	100
KDM5B	100	100
PPP1R15B	100	100
NFASC	100	100
KCNH1	100	100
FLVCR1	100	99.9
CENPF	100	100
RAB3GAP2	100	99.4

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

DEGS1	100	100
WDR26	99.7	100
PYCR2	100	100
H3F3A	100	100
ADCK3	100	100
GJC2	89.4	98.3
IBA57	100	99.8
GALNT2	99.1	99.9
ARV1	100	100
GNPAT	100	99.7
TBCE	100	100
B3GALNT2	100	100
MTR	100	100
FMN2	91	91.4
FH	96.2	100
SDCCAG8	100	100
AKT3	100	100
ZBTB18	100	99.9
HNRNPU	100	98.7
MYT1L	100	100
TRAPPC12	100	100
COLEC11	100	100
SOX11	100	100
KIDINS220	99.9	100
ODC1	100	100
MYCN	99.9	99
DNMT3A	100	100
ASXL2	100	98.5
HADHA	100	100
CAD	100	100
IFT172	100	100
PPP1CB	100	100
SPAST	100	100
EIF2AK2	100	99.4
SOS1	100	98.8
LRPPRC	100	99.8
SIX3	100	99.8
FBXO11	98.2	99.7
PPP1R21	100	100
NRXN1	100	100
SPTBN1	100	100
BCL11A	100	100
PEX13	100	100
XPO1	99.7	99.9
SLC1A4	100	100
NFU1	100	95.8
SPR	100	100
ALMS1	100	99.9
STAMBP	100	100
TET3	100	100

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

BOLA3	98.9	98.9
MOGS	100	100
HTRA2	100	100
CTNNA2	100	100
SUCLG1	100	100
ST3GAL5	92.5	92.1
EIF2AK3	99	98
RPIA	100	100
POU3F3	62.8	73.9
NPHP1	99.9	96.6
CKAP2L	100	92.9
PAX8	100	100
GLI2	99.7	99.9
ERCC3	100	100
SMPD4	100	100
CCDC115	97	100
RAB3GAP1	100	100
DARS	99.9	97.2
HNMT	100	100
ZEB2	100	100
MBD5	100	100
KIF5C	100	99.4
MMADHC	100	99.5
NR4A2	100	100
TBR1	100	100
IFIH1	100	100
SCN3A	100	100
SCN2A	100	99.7
SCN1A	100	100
LRP2	100	100
BBS5	100	100
DCAF17	100	100
DYNC1I2	98.9	100
SLC25A12	100	100
AGPS	99.8	95.6
HIBCH	99.9	99.1
HECW2	99.9	100
PGAP1	99.8	96.9
HSPD1	100	100
SATB2	100	99.5
TMEM237	99.9	100
NDUFS1	100	100
UNC80	100	100
CPS1	100	100
ATIC	100	100
ZNF142	100	100
BCS1L	100	100
GMPPA	100	100
CUL3	99.5	100
MFF	100	100

**Gennaam**      **CreV4 (15X)**      **SSv7 (15X)**

SLC19A3	100	100
TRIP12	100	100
ARMC9	100	100
DIS3L2	100	100
HDAC4	100	97.4
KIF1A	99.9	100
D2HGDH	100	100
CRBN	100	98.1
SUMF1	100	100
ITPR1	100	100
GRM7	100	100
SETD5	100	100
BRPF1	100	100
FANCD2	100	100
SLC6A1	100	99.7
TSEN2	100	100
RAF1	99.8	100
IQSEC1	100	100
CCDC174	100	95
BTD	100	100
THRB	100	100
RARB	100	100
NGLY1	100	100
GLB1	100	100
CTNNB1	100	100
POMGNT2	100	100
ABHD5	100	100
SETD2	100	99.7
PTPN23	100	100
DHX30	100	100
TREX1	100	100
P4HTM	100	99.2
NDUFAF3	100	100
QRICH1	100	100
QARS	100	100
AMT	100	100
DAG1	100	100
GMPPB	100	100
TRAIP	100	100
NPRL2	100	100
CACNA2D2	97.6	96.9
DOCK3	100	100
ACY1	100	100
GLYCTK	100	100
RFT1	100	100
CACNA1D	100	100
HESX1	100	98.6
FOXP1	100	100
ARL13B	100	100
ARL6	100	100

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

TBC1D23	100	99.1
ATP6V1A	100	99.9
ZBTB20	100	100
ARHGAP31	100	100
TIMMDC1	99.9	100
UMPS	100	100
UROC1	100	100
ACAD9	100	100
UBA5	99.4	99.5
PCCB	100	100
STAG1	100	98
MRPS22	100	99.8
ATR	99.9	99.9
ZIC1	100	99.8
RNF13	99.8	99.8
SLC33A1	100	100
GFM1	100	100
TBL1XR1	100	100
PIK3CA	100	100
ACTL6A	100	100
DNAJC19	100	100
SOX2	100	99.8
MCCC1	100	100
AP2M1	100	100
ALG3	100	100
MASP1	100	100
FGF12	100	100
NRROS	100	100
PIGG	100	100
CPLX1	100	94.6
IDUA	99.6	97.8
CTBP1	93.6	94.5
FGFR3	99.7	100
WHSC1	99.6	99.6
HTT	99.3	99.2
CC2D2A	100	99.8
QDPR	100	99.9
SEPSECS	100	100
LIAS	100	96.3
UGDH	100	100
GABRA2	100	100
GABRB1	100	100
SRD5A3	100	99.8
TMEM165	100	99.8
CEP135	99.9	99.1
SLC4A4	100	100
FRAS1	100	100
HNRNPD	99.2	100
COQ2	100	99.6
GRID2	100	100

**Gennaam**    **CreV4 (15X)**    **SSv7 (15X)**

TRMT10A	100	100
PPP3CA	99.9	100
SLC39A8	100	100
MANBA	100	100
TBCK	99.9	96
AIMP1	100	99.2
HADH	100	100
LARP7	100	97.4
PRSS12	100	100
BBS7	100	99.5
KIAA1109	100	100
BBS12	100	100
SPATA5	100	100
FAT4	100	100
PLK4	100	100
MFSD8	100	100
NAA15	100	100
MMAA	100	100
MAB21L2	100	100
GRIA2	100	99.7
MSMO1	100	100
AGA	100	100
TRAPPC11	99.9	99.3
SLC6A19	100	99
SLC6A3	100	100
NSUN2	100	98.7
MTRR	100	100
CTNND2	95.7	96.9
TRIO	98.7	99
ANKH	100	100
NIPBL	100	98.8
C5orf42	100	99
HCN1	100	100
MOCS2	100	100
NDUFS4	100	100
PDE4D	99.8	99.6
ERCC8	99.1	100
ZSWIM6	93.4	96.2
KIF2A	99.9	99.2
CWC27	99.9	87.9
OCLN	96.8	84.8
MCCC2	100	99.8
MAP1B	100	99.6
HEXB	100	98.6
COL4A3BP	99.9	99.6
AP3B1	99.9	97.2
DHFR	100	98.5
XRCC4	99.9	100
MEF2C	100	100
NR2F1	95.4	98.7

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

TTC37	100	100
CHD1	99.7	95.6
HSD17B4	100	95.3
ALDH7A1	100	100
AFF4	100	99.9
PPP2CA	100	100
KDM3B	98.3	98.8
SIL1	100	100
PURA	99.9	100
NDUFA2	100	100
DIAPH1	99.7	99.7
PCDH12	100	100
CSF1R	100	100
PDGFRB	100	100
CAMK2A	100	100
NDST1	100	100
GM2A	100	100
CYFIP2	99.9	100
GABRB2	100	100
GABRA1	100	100
GABRG2	92.9	100
FBXW11	100	100
NSD1	100	100
B4GALT7	100	99.8
HNRNPAB	80.9	95.1
HNRNPH1	100	100
TUBB2A	96.1	100
TUBB2B	100	100
FARS2	100	100
TFAP2A	100	100
PHACTR1	100	99.7
TBC1D7	100	100
SOX4	100	98.2
ALDH5A1	99.9	99.8
TDP2	100	100
HIST1H4C	100	100
HIST1H1E	100	99.9
TUBB	100	100
CSNK2B	100	100
VARS	100	100
NEU1	100	100
SYNGAP1	97.8	97.8
MOCS1	100	100
PEX6	100	99.9
PPP2R5D	99.9	100
GTPBP2	99.1	97.8
MUT	99.9	100
RAB23	100	100
KCNQ5	99.8	99.3
MTO1	99	97.6



**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

SLC17A5	100	100
PHIP	98.9	97
ELOVL4	100	100
BCKDHB	99.9	100
PGM3	100	100
SNX14	100	92.3
SYNCRIP	99.7	100
ZNF292	99.7	100
SLC35A1	100	100
RARS2	100	100
FBXL4	100	100
GRIK2	99.9	100
HACE1	100	99.7
RTN4IP1	100	100
PDSS2	100	99.7
ZBTB24	100	100
WASF1	100	99.8
CDK19	100	99.9
NUS1	100	99.8
LAMA2	100	100
ARG1	100	100
MED23	100	100
AHI1	100	100
PEX7	99.6	100
HIVEP2	100	100
PEX3	100	100
GRM1	100	100
RMND1	100	97.7
ARID1B	99.9	98.6
SERAC1	100	99.7
GTF2H5	100	100
RNASET2	100	99.9
FAM20C	100	99.4
INTS1	99.8	99.5
BRAT1	100	100
ACTB	100	100
RAC1	98.7	94.2
ISPD	100	100
TWIST1	97.3	99.5
FAM126A	100	100
KLHL7	100	100
HOXA1	100	100
BBS9	100	99.5
RALA	99.5	91.5
CDK13	99.3	100
MPLKIP	100	99.2
GLI3	100	100
CAMK2B	99.9	100
DDC	99.3	99.5
PSPH	100	99.1

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

GUSB	99.9	100
ASL	100	100
KCTD7	100	100
SBDS	100	100
AUTS2	100	100
MDH2	100	99.9
YWHAG	99.9	100
GNAI1	100	100
PEX1	100	96.6
SAMD9	100	100
ASNS	100	100
TRRAP	99.7	99.7
AP4M1	100	100
TAF6	100	100
ACTL6B	100	100
AP1S1	99.7	100
CUX1	97.7	97.6
PMPCB	100	100
RELN	100	100
KMT2E	100	99.9
PUS7	100	100
COG5	100	98.8
DLD	100	100
LAMB1	100	100
FOXP2	100	100
CAPZA2	99.5	94.5
AASS	100	99.9
CEP41	100	100
BRAF	100	99.1
CNTNAP2	100	100
EZH2	100	100
RHEB	91.7	90.6
KMT2C	100	99.4
DPP6	98.5	98.9
SHH	99.9	99.1
NCAPG2	100	99.6
CLN8	100	100
MCPH1	100	99.7
TUSC3	100	100
VPS37A	99.9	99.5
ASAH1	100	99.4
ATP6V1B2	100	100
SLC39A14	100	100
RHOBTB2	100	100
ESCO2	100	100
EXTL3	100	100
TTI2	100	100
ERLIN2	100	100
PROSC	99.2	100
DDHD2	100	100

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

FGFR1	100	100
KAT6A	100	100
HGSNAT	94	94.6
CA8	100	100
CHD7	100	99.9
CSPP1	100	98.3
TMEM70	100	100
PEX2	100	100
CA2	100	100
NBN	100	100
OTUD6B	100	99.9
TMEM67	100	99.6
PTDSS1	100	100
VPS13B	100	100
RRM2B	100	100
RAD21	100	99.9
KCNK9	100	100
TRAPPC9	100	100
AGO2	98.1	98.1
PUF60	100	100
GPAA1	99.7	100
RECQL4	100	100
SMARCA2	98.1	98
VLDLR	100	100
RFX3	100	100
GLIS3	100	100
GLDC	100	100
MPDZ	100	100
PLAA	100	100
APTX	100	100
GALT	100	100
PIGO	100	100
EXOSC3	100	100
TRPM3	100	100
HNRNPK	99.9	99.4
NTRK2	99.9	100
AUH	100	98.8
ROR2	100	100
IARS	100	100
PTCH1	99.4	100
ERCC6L2	100	100
XPA	99.8	99.5
NANS	100	100
GABBR2	97.5	98.3
SLC44A1	97.2	96.9
FKTN	100	100
ZNF462	99.9	100
FRRS1L	75.5	86.1
TRIM32	100	100
CDK5RAP2	100	99.8

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

STXBP1	100	100
DNM1	99.3	97
COQ4	100	98.9
SPTAN1	100	100
SET	98.8	100
NUP188	100	100
DOLK	100	100
ASS1	100	100
LAMC3	100	100
POMT1	100	100
NTNG2	99.9	99.9
TSC1	100	100
SURF1	91.5	94.8
WDR5	100	100
KCNT1	99.7	99
PMPCA	100	100
INPP5E	100	100
MAN1B1	100	100
GRIN1	100	100
EHMT1	98.8	98.8
CACNA1B	99.1	98.3
ZMYND11	100	100
WDR37	100	100
DHTKD1	100	100
CUBN	100	100
PTF1A	99.9	99.8
PDSS1	99	95.2
RAB18	100	99.7
WAC	99.7	99.1
HNRNPF	100	100
ERCC6	100	100
ANK3	100	100
DNAJC12	100	100
KIAA1279	100	100
HK1	100	100
SGPL1	100	100
PSAP	100	100
MICU1	100	100
CAMK2G	99.4	100
ADK	97.1	99.9
KAT6B	100	99.5
KCNMA1	100	99.9
POLR3A	100	100
ZMIZ1	100	96.6
MAT1A	100	100
PTEN	100	100
KIF11	100	99.9
ALDH18A1	100	100
COX15	100	100
CWF19L1	100	99.9

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

TRIM8	100	100
CNNM2	100	100
NT5C2	100	99
SMC3	100	99.5
SHOC2	99.9	100
EMX2	100	99.6
FGFR2	100	100
EBF3	100	98.8
HRAS	100	100
DEAF1	97.2	93.8
SLC25A22	100	100
BRSK2	99.8	99.9
CTSD	99.9	100
TH	99.9	100
CDKN1C	89.9	82.6
CARS	99.9	100
PGAP2	100	100
SMPD1	100	100
TPP1	100	100
DCHS1	100	100
EIF3F	100	100
DENND5A	99.8	100
CTR9	100	100
FAR1	100	100
COPB1	99.8	99
SOX6	100	99.6
KCNJ11	100	100
KCNC1	100	100
PAX6	100	100
PDHX	100	100
SLC1A2	100	100
ALX4	100	99.5
SLC35C1	100	100
PEX16	100	100
PHF21A	100	99.7
MADD	100	100
CLP1	100	100
TMX2	100	100
FAM111A	100	100
TMEM216	100	100
BSCL2	100	100
HNRNPUL2	99.9	100
KCNK4	100	98.7
DPF2	100	100
RNASEH2C	100	100
PACS1	99.8	94.9
B3GNT1	100	100
BBS1	100	100
SPTBN2	100	99.9
PC	100	100

**Gennaam**      **CreV4 (15X)**      **SSv7 (15X)**

NDUFV1	100	100
NDUFS8	100	100
SUV420H1	100	100
DHCR7	100	100
FOLR1	100	100
CLPB	100	100
PDE2A	100	100
PAK1	99.8	100
ALG8	100	96.4
NARS2	100	96.5
EED	100	100
MED17	100	99.9
CEP57	100	100
GRIA4	99.9	99.9
ALKBH8	99.9	100
ACAT1	100	99.2
ALG9	100	99.7
PTS	100	100
ZBTB16	100	100
KMT2A	99.9	99.6
ARCN1	100	100
DDX6	99.9	100
TRAPPC4	100	100
VPS11	100	100
DPAGT1	100	100
CBL	100	100
SC5D	100	100
HEPACAM	99.8	99.9
PUS3	100	100
CDON	100	100
FOXRED1	100	100
DCPS	100	100
KIRREL3	100	100
JAM3	100	100
CACNA1C	100	100
CCND2	100	100
C12orf4	100	99.3
CHD4	100	100
ATN1	100	100
C12orf57	100	100
PEX5	100	100
GRIN2B	100	100
MGP	99.9	92.4
ABCC9	100	100
SOX5	100	100
KRAS	100	100
DDX11	100	100
DNM1L	100	100
ARID2	100	100
KMT2D	100	100

**Gennaam**      **CreV4 (15X)**      **SSv7 (15X)**

TUBA1A	100	100
SMARCD1	95.2	98.8
SCN8A	100	100
AAAS	100	100
SUOX	100	100
SMARCC2	99.9	100
B4GALNT1	100	100
TSFM	100	100
TMEM5	100	99.7
GNS	100	99.7
CNOT2	100	100
BBS10	100	100
SYT1	100	100
PPP1R12A	99.9	94
CEP290	99.9	84.8
TMTC3	99.9	99.6
CRADD	100	100
CEP83	99.9	89.7
GNPTAB	100	100
IGF1	100	100
PAH	100	100
POLR3B	100	100
RFX4	99.9	100
UBE3B	100	100
MMAB	100	100
MVK	100	100
ATP2A2	100	100
CUX2	100	98.7
PTPN11	99.6	98.2
MED13L	100	99.8
CIT	100	100
ACADS	99.9	100
SETD1B	97	97.4
HPD	100	100
C12orf65	100	99.5
TCTN2	100	100
ATP6V0A2	100	100
PUS1	99.8	99.9
CENPJ	100	100
ATP8A2	100	100
CDK8	100	98.8
B3GALTL	96.5	98.2
NBEA	99.8	98.9
MAB21L1	100	100
SPG20	100	100
UFM1	98.7	64.2
FREM2	100	100
COG6	99.9	99.9
SLC25A15	100	100
SUCLA2	100	100

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

RNASEH2B	99.6	100
ALG11	100	100
CLN5	100	100
FBXL3	100	100
ZIC2	97.3	91.6
PCCA	99.9	100
NALCN	100	100
TPP2	99.7	98
ERCC5	100	99.7
LIG4	100	100
CHAMP1	100	100
TTC5	100	99.9
OSGEP	100	100
CHD8	100	100
TINF2	100	100
FOXG1	98.9	99.2
PRKD1	100	100
AP4S1	100	100
NUBPL	100	99.9
SRP54	100	97.4
RALGAPA1	100	92.5
NKX2-1	100	100
TRAPPC6B	99.9	99.8
MGAT2	100	100
SOS2	100	99
L2HGDH	100	99.7
BMP4	100	100
GCH1	100	92.7
OTX2	100	100
KIAA0586	99.6	99.8
FUT8	100	100
GPHN	100	100
ZFYVE26	100	100
SMOC1	100	99
ABCD4	100	100
NPC2	100	100
FLVCR2	100	100
IRF2BPL	99.8	99.2
POMT2	100	100
GALC	100	99.8
TTC8	100	96
CCDC88C	100	100
UBR7	98.1	99
VRK1	100	100
BCL11B	97.6	99.8
EML1	97.7	99.9
YY1	100	100
DYNC1H1	100	100
TECPR2	100	100
CDC42BPB	100	98



**Gennaam**      **CreV4 (15X)** **SSv7 (15X)**

APOPT1	100	100
BRF1	100	99.5
PACS2	96.8	97.7
MAGEL2	99.9	100
UBE3A	100	100
GABRB3	100	100
GABRA5	100	100
HERC2	100	98.7
OTUD7A	95.9	97.4
SLC12A6	100	100
MEIS2	100	100
SPRED1	100	100
BUB1B	100	98.1
IVD	100	100
CASC5	100	98.9
UBR1	100	99.9
TUBGCP4	99.4	99.9
GATM	100	100
CEP152	100	97.2
AP4E1	100	100
DMXL2	100	99.9
GNB5	100	100
MYO5A	100	98.2
PIGB	99.7	95.6
RFX7	99.5	98.4
RORA	100	100
HERC1	100	100
MTFMT	100	99.9
MAP2K1	100	100
CLN6	98.8	99.8
HEXA	100	100
BBS4	100	100
STRA6	100	100
SIN3A	100	100
SCAPER	100	99.5
AP3B2	99.7	100
WDR73	100	100
POLG	100	100
KIF7	97	97.3
IDH2	99.9	100
BLM	100	99.8
CHD2	100	99.8
IGF1R	100	100
LINS	100	100
NPRL3	100	100
PIGQ	100	100
GNPTG	99.9	100
TELO2	100	99.6
MAPK8IP3	100	100
MRPS34	100	100

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

GFER	100	100
TSC2	100	100
TRAF7	98.6	99.5
TBC1D24	100	100
SRRM2	100	100
THOC6	100	100
CREBBP	100	99.4
ROGDI	99.4	99.5
ALG1	87.3	99.5
ABAT	100	100
PMM2	100	100
USP7	98.2	97.4
GRIN2A	100	100
PARN	100	100
NDE1	100	100
COG7	100	100
CLN3	100	99.2
SRCAP	100	100
SETD1A	99.9	99.1
STX1B	100	96.4
BCKDK	100	100
KAT8	100	100
GPT2	98.6	98.4
SALL1	100	100
RPGRIP1L	98.5	96.9
FTO	100	100
IRX5	100	100
GNAO1	100	100
BBS2	100	100
COQ9	100	100
GPR56	100	100
KATNB1	100	100
CNOT1	99.9	100
GOT2	99.5	99.4
CDH11	100	100
CTCF	100	98.1
PRMT7	100	100
COG8	100	100
AARS	100	100
COG4	100	100
TAT	100	100
FA2H	99.4	99.6
TMEM231	100	100
KARS	100	100
WWOX	100	100
MAF	83.9	86.8
MLYCD	99	99.9
CA5A	100	100
ACSF3	100	100
CDH15	100	99.1

**Gennaam**      **CreV4 (15X)** **SSv7 (15X)**

ANKRD11	100	100
CHMP1A	100	100
CDK10	100	100
TUBB3	96.7	99.8
VPS53	100	100
INPP5K	100	100
WDR81	100	100
DPH1	100	100
PAFAH1B1	100	94.7
ASPA	100	100
SLC13A5	100	100
DLG4	100	100
POLR2A	100	100
MPDU1	100	100
KDM6B	99.9	97.6
CHD3	95.9	96.4
VAMP2	94.4	93.7
CTC1	100	100
SCO1	100	100
ELAC2	100	100
COX10	100	100
TTC19	98.5	100
PIGL	100	100
RAI1	100	100
ALDH3A2	100	100
SLC46A1	100	100
TAOK1	100	99.3
NF1	98.5	99.7
SUZ12	100	87.3
PEX12	100	100
PIGW	100	100
PCGF2	100	100
PGAP3	100	100
THRA	100	100
CDC6	100	100
SMARCE1	100	100
NAGLU	98.4	99.9
COASY	100	100
TUBG1	100	100
UBTF	100	99.9
EFTUD2	100	100
GFAP	100	100
KANSL1	100	100
SPOP	100	100
CACNA1G	100	99.9
MKS1	100	100
CLTC	100	100
PPM1D	100	100
MED13	100	100
TLK2	98.1	100

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

TANC2	100	100
STRADA	100	100
CCDC47	100	100
PSMD12	99.9	100
BPTF	96	95.7
COG1	100	100
KIAA0195	100	100
TSEN54	99.1	96.9
H3F3B	100	100
ACOX1	100	100
METTL23	100	100
CANT1	100	100
EIF4A3	100	99.9
SGSH	99	94.5
C17orf89	99.3	99.5
ACTG1	100	100
PCYT2	98.3	93.8
PYCR1	99.9	99.8
RAC3	90.9	91.5
WDR45B	98.9	100
TBCD	99.9	99
TGIF1	100	100
LAMA1	100	100
AFG3L2	96.2	92.9
RBBP8	100	99.8
NPC1	100	100
RNF125	100	100
ASXL3	100	100
MAPRE2	100	100
ELP2	100	99.6
SETBP1	99.7	99.3
EPG5	100	100
IER3IP1	100	100
DYM	99.9	100
SMAD4	100	100
TCF4	100	100
NARS	100	99.4
NEDD4L	100	98
CCBE1	100	100
PIGN	100	98.6
RTTN	100	99.9
CTDP1	94.1	99.1
NDUFS7	99.9	98.7
GAMT	99.5	100
APC2	99.5	97
ADAT3	100	99.9
MAP2K2	99.4	100
LONP1	100	98.9
RFX2	100	100
TUBB4A	99.8	99.9

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

MCOLN1	100	100
PNPLA6	100	99.9
PET100	99.8	100
RAB11B	100	100
SMARCA4	100	100
DOCK6	99	99.8
MAN2B1	100	99.9
DHPS	100	100
RNASEH2A	100	100
MAST1	100	100
NFIX	100	100
TRMT1	100	100
NACC1	100	100
CACNA1A	99.5	100
CC2D1A	100	100
TECR	100	100
BRD4	95.8	97.3
GTPBP3	100	100
MAST3	98.9	98.4
PIK3R2	95.8	94.6
PEPD	100	100
LGI4	100	100
COX6B1	100	100
KMT2B	96.4	96.1
SDHAF1	100	100
WDR62	100	100
YIF1B	100	100
TIMM50	99.9	100
HNRNPUL1	99.7	99.8
BCKDHA	100	99.9
RPS19	99.9	100
CIC	100	100
MEGF8	100	99.9
ETHE1	100	94.5
ERCC2	100	100
ERCC1	100	100
OPA3	100	100
NOVA2	94	93.1
FKRP	100	100
KPTN	100	100
GRIN2D	77	81
PRR12	99.8	99.6
MED25	100	100
PNKP	100	100
KCNC3	88.6	88.1
PPP2R1A	100	100
CNOT3	100	99.6
MBOAT7	100	100
TSEN34	100	100
TBC1D20	93.9	93

**Gennaam**    **CreV4 (15X)**    **SSv7 (15X)**

CSNK2A1	100	100
SNRPB	100	100
ITPA	100	100
PANK2	100	100
PLCB1	100	99.9
SNAP25	100	100
MKKS	100	100
NDUFAF5	100	100
ASXL1	99.6	98.4
DNMT3B	100	99.9
AHCY	100	100
PIGU	99.8	99.7
GSS	100	100
SAMHD1	100	100
PIGT	100	100
CTSA	100	100
SLC12A5	100	99
ARFGEF2	100	100
KCNB1	100	100
ADNP	100	100
DPM1	100	100
GNAS	100	99.9
TAF4	74.6	77.6
KCNQ2	100	97.6
EEF1A2	99.8	97.5
SYNJ1	100	97.7
SON	99.9	100
DONSON	97.9	97.4
HLCS	100	100
DYRK1A	100	100
KCNJ6	100	100
CBS	100	100
SIK1	100	100
CSTB	100	100
ADARB1	100	93.9
FTCD	93.4	94.9
MCM3AP	100	100
PCNT	100	99.9
PEX26	100	100
PRODH	96.1	98.9
SLC25A1	98.3	94.5
TBX1	86.8	84.3
TANGO2	100	100
SNAP29	100	100
LZTR1	100	100
MAPK1	100	100
SMARCB1	100	100
SPECC1L	100	100
UPB1	100	100
MN1	100	100

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

AP1B1	100	100
TCN2	100	100
MORC2	100	100
PISD	99.5	100
DEPDC5	100	100
LARGE	100	100
SOX10	99.8	100
PLA2G6	100	100
TNRC6B	100	97.8
ADSL	100	100
EP300	100	100
ACO2	100	100
NAGA	100	100
TCF20	100	100
CYB5R3	95.2	95.2
ALG12	100	100
MLC1	99.9	100
TUBGCP6	100	100
SCO2	100	100
CHKB	100	100
CHKB-CPT1B	100	100
ARSA	100	100
SHANK3	84.7	90.2
ARSE	99.4	100
NLGN4X	100	100
CLCN4	100	100
MID1	100	100
HCCS	99.6	100
MSL3	98.5	96.7
FRMPD4	100	100
OFD1	99.7	99.1
PIGA	100	100
AP1S2	100	97.2
NHS	98.1	99.7
CDKL5	99.6	98.6
PDHA1	99.5	100
RPS6KA3	99.4	98.9
CNKSR2	99.3	99.4
MBTPS2	100	99.9
SMS	94.2	100
PTCHD1	100	100
EIF2S3	99.4	100
POLA1	98.2	99
ARX	82.6	88
IL1RAPL1	99.9	100
GK	99.2	95.8
TSPAN7	99.7	99.9
OTC	100	99.4
BCOR	100	100
ATP6AP2	99.9	100

**Gennaam** **CreV4 (15X)** **SSv7 (15X)**

USP9X	99.8	99.9
DDX3X	100	99.9
CASK	99.8	98.3
MAOA	99.9	100
NDP	100	100
KDM6A	99.6	99.9
RBM10	99.5	99.9
SYN1	99.4	100
FTSJ1	100	100
PORCN	99.7	99.8
EBP	100	100
PQBP1	100	100
SLC35A2	100	99.6
TFE3	99.9	99.8
WDR45	100	100
SYP	99.8	97
CCDC22	100	98.9
KDM5C	100	100
IQSEC2	98.6	98.9
SMC1A	99.6	100
HSD17B10	100	100
HUWE1	99.8	99.9
PHF8	99.9	100
FGD1	99.8	99.8
ARHGEF9	99.9	100
AMER1	99.9	100
ZC4H2	99.9	100
OPHN1	99.3	100
DLG3	99.6	100
MED12	100	99.9
NONO	99.4	99.3
TAF1	99.8	99.8
OGT	99.7	100
HDAC8	99.9	99.9
SLC16A2	99.9	99.9
RLIM	100	100
KIAA2022	100	100
ATRX	99.5	98.8
ATP7A	99.9	100
PGK1	100	100
BRWD3	99.8	99.5
ZNF711	99.3	99.8
PCDH19	100	100
TIMM8A	100	100
HNRNPH2	100	100
TCEAL1	100	99.8
PLP1	99.8	100
PRPS1	100	100
ACSL4	100	99.8
PAK3	99.2	99.8



<b>Gennaam</b>	<b>CreV4 (15X)</b>	<b>SSv7 (15X)</b>
DCX	99.9	99.9
ALG13	99.8	99.7
UBE2A	99.4	100
UPF3B	100	88.8
NDUFA1	100	100
NKAP	99.2	93.2
LAMP2	99.6	100
CUL4B	99.7	98.2
GRIA3	99.9	99.9
THOC2	99.6	94.6
STAG2	99.4	98.2
OCRL	99	98.6
ZDHHC9	100	100
BCORL1	100	100
AIFM1	99.5	100
GPC3	99.9	100
PHF6	99.7	97.6
HPRT1	99.5	93.1
SLC9A6	99.9	99.9
FGF13	99.9	99.9
SOX3	99.4	100
FMR1	99	99.6
AFF2	100	99.9
IDS	100	100
NSDHL	99.9	100
SLC6A8	98.6	98.9
BCAP31	100	99.8
ABCD1	85.1	98.1
SSR4	100	100
L1CAM	100	100
NAA10	96.6	100
HCFC1	99.4	100
MECP2	99.8	96.1
FLNA	100	99.6
RPL10	100	100
GDI1	100	100
FAM50A	99	100
IKBKG	40.5	36.8
DKC1	99.9	100
RAB39B	100	100