

PANEL NMG15
MENTAL RETARDATION

LIGADO AL X

ACSL4	Mental retardation, X-linked 63
AFF2	Mental retardation, X-linked, FRAXE type
AP1S2	Mental retardation, X-linked syndromic 5
ARHGEF6	Mental retardation, X-linked 46
ARX	Mental retardation, X-linked 29 and others
ATP6AP2	?Mental retardation, X-linked, syndromic, Hedera type
ATRX	Mental retardation-hypotonic facies syndrome, X-linked
BRWD3	Mental retardation, X-linked 93
CASK	Mental retardation, with or without nystagmus
CLIC2	?Mental retardation, X-linked, syndromic 32
CUL4B	Mental retardation, X-linked, syndromic 15 (Cabezas type)
DDX3X	Mental retardation, X-linked 102
DLG3	Mental retardation, X-linked 90
FMR1	Fragile X syndrome
FTSJ1	Mental retardation, X-linked 9
FGD1	Mental retardation, X-linked syndromic 16
GDI1	Mental retardation, X-linked 41
GRIA3	Mental retardation, X-linked 94
HCFC1	Mental retardation, X-linked 3 (methylmalonic acidemia and homocysteinemia, cblX type)
HDAC8	Wilson-Turner X-linked Mental Retardation Syndrome
HSD17B10	?Mental retardation, X-linked syndromic 10
HUWE1	Mental retardation, X-linked syndromic, Turner type
IGBP1	Mental retardation, X-linked syndromic, 28; MRXS28
IL1RAPL1	Mental retardation, X-linked 21/34
IQSEC2	Mental retardation, X-linked 1
KDM5C	Mental retardation, X-linked, syndromic, Claes-Jensen type
KIAA2022	Mental retardation, X-linked 98
KIF4A	?Mental retardation, X-linked 100
L1CAM	CRASH syndrom/ MASA syndrome
MID2	?Mental retardation, X-linked 101
MECP2	Mental retardation, X-linked, syndromic 13/ Mental
MED12	Lujan-Fryns syndrome/ Opitz-Kaveggia syndrome
MRX73	Mental retardation, X-linked 73
NLGN4	Mental retardation, X-linked
NONO	Mental retardation, X-linked, syndromic 34
NSDHL	Mental retardation, X-linked, with thin body habitus and cortical malformation WITH THIN BODY
OPHN1	Mental retardation, X-linked, with cerebellar hypoplasia and distinctive facial appearance
PAK3	Mental retardation, X-linked 30/47
PHF6	Borjeson-Forssman-Lehmann syndrome
PHF8	Mental retardation syndrome, X-linked, Siderius type
PQBP1	Renpenning syndrome
PRPS1	Arts syndrome
RAB39B	Mental retardation, X-linked 72
RAB40AL	Saito-Ohara et al. (2002) speculated that disruption of RAB40AL was responsible for the
RLIM	X-linkedrecessive syndromic mental retardation
RBMX	Mental retardation, X-linked, syndromic 11, Shashi type
RP2	Chromosome Xp11.3 deletion syndrome
RPS6KA3	Mental retardation, X-linked 19/Coffin-Lowry syndrome
SHROOM4	?Stocco dos Santos X-linked mental retardation syndrome
SLC16A2	Allan-Herndon-Dudley syndrome
SLC9A6	Mental retardation, X-linked syndromic, Christianson type
SYP	Mental retardation, X-linked 96
TAF1	Mental retardation, X-linked, syndromic 33
SMS	Mental retardation, X-linked, Snyder-Robinson type
SOX3	Mental retardation, X-linked, with isolated growth hormone deficiency
SRPX2	Rolandic epilepsy, mental retardation, and speech dyspraxia
THOC2	Mental retardation, X-linked 12/35
TSPAN7	Mental retardation, X-linked 58
UBE2A	Mental retardation, X-linked syndromic, Nascimento-type
UPF3B	Mental retardation, X-linked, syndromic 14
USP9X	Mental retardation, X-linked 99/ Mental retardation, X-linked 99, syndromic, female-restricted
ZDHHC15	?Mental retardation, X-linked 91
ZDHHC9	Mental retardation, X-linked syndromic, Raymond type
ZMYM3	Philips et al. X-exome sequencing in Finnish families with intellectual disability--four novel
ZNF41	Severe nonsyndromic mental retardation
ZNF711	Mental retardation, X-linked 97
ZNF81	Mental retardation, X-linked 45
ZNF674	Nonsyndromic X-linked mental retardation

AUTOSOMAL RECESSIVE

ADAT3	Mental retardation, autosomal recessive 36
ANK3	Mental retardation, autosomal recessive, 37
CC2D1A	Mental retardation, autosomal recessive 3
CRADD	Mental retardation, autosomal recessive 34

CRBN	Mental retardation, autosomal recessive 2
EDC3	?Mental retardation, autosomal recessive 50
FBXO31	Mental retardation, autosomal recessive 45
FMN2	Mental retardation, autosomal recessive 47
GPT2	Mental retardation, autosomal recessive 49
GRIK2	Mental retardation, autosomal recessive, 6
HERC2	Mental retardation, autosomal recessive 38
HNMT	Mental retardation, autosomal recessive 51
KIAA1033	?Mental retardation, autosomal recessive 43
KPTN	Mental retardation, autosomal recessive 41
LINS1	Mental retardation, autosomal recessive 27
MAN1B1	Mental retardation, autosomal recessive 15
MED23	Mental retardation, autosomal recessive 18
METTL23	Mental retardation, autosomal recessive 44
MRT4	Mental retardation, autosomal recessive, 4
NDST1	Mental retardation, autosomal recessive 46
NSUN2	Mental retardation, autosomal recessive 5
PGAP1	Mental retardation, autosomal recessive 42
PGAP2	Hyperphosphatasia with mental retardation syndrome 3
PRSS12	Mental retardation, autosomal recessive 1
SLC6A17	Mental retardation, autosomal recessive 48
ST3GAL3	Mental retardation, autosomal recessive 12
TAF2	Mental retardation, autosomal recessive 40
TECR	Mental retardation, autosomal recessive 14
TRAPPC9	Mental retardation, autosomal recessive 13
TTI2	Mental retardation, autosomal recessive 39
TUSC3	Mental retardation, autosomal recessive 7
AUTOSOMAL DOMINANT	
ADNP	Mental retardation, autosomal dominant 28
AHDC1	Xia-Gibbs syndrome, autosomal dominant
ARID1A	Mental retardation, autosomal dominant 14
ARID1B	Mental retardation, autosomal dominant 12
CACNG2	Mental retardation, autosomal dominant 10
CDH15	Mental retardation, autosomal dominant 3
CHAMP1	Mental retardation, autosomal dominant 40
COL4A3BP	Mental retardation, autosomal dominant 34
CTCF	Mental retardation, autosomal dominant 21
CTNNB1	Mental retardation, autosomal dominant 19
DEAF1	Mental retardation, autosomal dominant 24
DOCK8	Mental retardation, autosomal dominant 2
DPP6	Mental retardation, autosomal dominant 33
DYNC1H1	Mental retardation, autosomal dominant 13
DYRK1A	Mental retardation, autosomal dominant 7
EEF1A2	Mental retardation, autosomal dominant 38
EPB41L1	?Mental retardation, autosomal dominant 11
GATAD2B	Mental retardation, autosomal dominant 18
GRIN1	Mental retardation, autosomal dominant 8
GRIN2B	Mental retardation, autosomal dominant 6
HBA1	Alpha-thalassemia/mental retardation syndrome, type 1
KAT6A	Mental retardation, autosomal dominant 32
KIAA0442	Mental retardation, autosomal dominant 26
KIF1A	Mental retardation, autosomal dominant 9
KIRREL3	Mental retardation, autosomal dominant 4
MBD5	Mental retardation, autosomal dominant 1
MEF2C	Mental retardation, stereotypic movements, epilepsy, and/or cerebral malformations
MYT1L	Mental retardation, autosomal dominant 39
PACS1	Mental retardation, autosomal dominant 17
POGZ	Mental retardation, autosomal dominant 37
PPP2R1A	Mental retardation, autosomal dominant 36
PPP2R5D	Mental retardation, autosomal dominant 35
PURA	Mental retardation, autosomal dominant 31
SETBP1	Mental retardation, autosomal dominant 29
SETD5	Mental retardation, autosomal dominant 23
SMARCA4	Mental retardation, autosomal dominant 16
SMARCB1	Mental retardation, autosomal dominant 15
SOX11	Mental retardation, autosomal dominant, 27
SYNGAP1	Mental retardation, autosomal dominant 5
ZBTB18	?Mental retardation, autosomal dominant 22
ZMYND11	Mental retardation, autosomal dominant 30