

XV. Appendix H

Gene, mRNA and protein symbols

Table XV-1 lists all mRNAs and proteins, including their accession numbers, that were investigated or employed in this study. Table XV-2 explains the acronyms of all genes and proteins mentioned throughout the text.

Throughout this study an additional ‘ag’ (*A. gambiae*), ‘am’ (*A. mellifera*), ‘b’ (*B. taurus*), ‘ce’ (*C. elegans*), ‘dm’ (*D. melanogaster*), ‘dr’ (*D. rerio*), ‘f’ (*F. rubripes*), ‘h’ (*H. sapiens*), ‘m’ (*M. musculus*), ‘r’ (*R. norvegicus*), ‘sc’ (*S. cerevisiae*), ‘sp’ (*S. purpuratus*) or ‘xt’ (*X. tropicalis*) is added to the official gene/protein symbols as a unique species identifier. No identifier is mentioned when multiple species are being indicated or the species is unknown.

Table XV-1 | mRNA and protein symbols, and accession numbers of those mRNAs and proteins investigated or employed in this study

mRNA/protein symbol	Full name	Accession #
<i>18S rRNA</i>	18S ribosomal RNA	X03205
BSA	Bovine serum Albumin	CAA76847
bUbiquitin	NA	P62990
<i>drKIAA1202</i>	NA	XM_693836
EGFP	Enhanced green fluorescent protein	AAB08064, AAB02576
HA	Hemagglutinin	AAV44906
hCul1	Cullin 1	NP_003583
<i>hFBXO25</i>	<i>F-box only 25</i>	AF174605, NM_183421, NM_183420, NM_012173
hFBXO25	F-box only 25	NP_904356, NP_036305, NP_904357
hFBXO4	F-box only 4	NP_036308
hFBXO7	F-box only 7	CAG30377
<i>hG3PDH</i>	<i>Glyceraldehyde-3-phosphate dehydrogenase</i>	BC029340
hGolgin	NA	NP_002068
<i>hKIAA1202</i>	NA	NM_020717
hKIAA1202	NA	NP_065768
<i>hMSL3L1</i>	<i>Male-specific lethal-3 homologue 1</i>	AAH31210

Table XV-1 | mRNA and protein symbols, and accession numbers of those mRNAs and proteins investigated or employed in this study

mRNA/protein symbol	Full name	Accession #
hRoc1	Ring-box 1	NP_055063
HRP	Horseradish peroxidase	CAA00083
<i>hSHAP-A</i>	<i>Second homologue of Apical protein, isoform A</i>	AY044234
hSkp1	S-phase kinase-associated protein 1	P63208
hVimentin	NA	NP_003371
<i>hβ-actin</i>	NA	NM_001101
hβ-actin	NA	NP_001092
<i>mFbxo25</i>	<i>F-box only 25</i>	NM_025785
mFbxo25	F-box only 25	NP_080061
<i>mG3pdh</i>	<i>Glyceraldehyde-3-phosphate dehydrogenase</i>	BC095932
<i>mKIAA1202</i>	NA	DQ435686
mKIAA1202	NA	ABD98016

Table XV-2 | Symbols and full names of all genes and proteins mentioned throughout the text

Gene/protein symbol	Full name
7SL	Spliced leader RNA 7
ABCD1	ATP-binding cassette, sub-family D, member 1
ACCN1	Amiloride-sensitive cation channel neuronal 1
ACSL4	Acyl-CoA synthetase long-chain, member 4
Af4	ALL-1 fused, chromosome 4
AGTR2	Angiotensin II receptor, type 2
ALL-1	Acute lymphoblastic leukaemia 1
α/β PIX	PAK-interacting exchange factor α/β , see ARHGEF6
APC2	APC, subunit 2
Ap-uch	<i>Aplysia</i> Ubiquitin carboxyl-terminal esterase
Apx	Apical protein <i>Xenopus</i>
APXL	Apx-like
ARHGEF6	Rac1/Cdc42 GEF 6, see α/β PIX
Arp2/3	Actin-related protein 2/3
ARX	Aristaless-related homeobox
ASB13	Ankyrin repeat and SOCS box protein 13
ATF4	Activating TF 4
ATP6AP2	ATPase, H ⁺ transporting, lysosomal accessory protein 2
ATP7A	ATPase, Cu ²⁺ transporting, α polypeptide

Table XV-2 | **Symbols and full names of all genes and proteins mentioned throughout the text**

Gene/protein symbol	Full name
ATRX	α -thalassemia/MR syndrome, X-linked
BCL-6	B-cell lymphoma 6
BCOR	BCL-6 co-repressor
BDNF	Brain-derived neurotrophic factor
BMPRII	BMP receptor, type II
C/EBP	CCAAT/enhancer-binding protein
CACNA1A/C/D/F/S	Ca ²⁺ channel, voltage-dependent, α 1A/C/D/F/S subunit
Cdc4/6/34/42/53	Cell division cycle 4/6/34/42/53
CDCrel-1	Cell division control related protein 1
CDK2	Cyclin-dependent kinase 2
CDKL5	Cyclin-dependent kinase-like 5
CDX1	Caudal-type homeobox TF 1
CFTR	Cystic fibrosis TM conductance regulator
Cln1/2	G1 Cyclin 1/2
CNGA1/B3	Cyclic nucleotide gated channel α 1/ β 3
COP9	Constitutively photomorphogenic 9
CRBN	Cereblon
CREB	cAMP response element binding
CtBP	C-terminal binding protein
Cul1/2/3/4A/4B/5/7	Cullin 1/2/3/4A/4B/5/7
DAX1	DSS AHC X-linked 1
Daxx	Death domain-associated protein
DCX	Doublecortin
DKC1	Dyskeratosis congenita 1
Dlg	Discs large
DLG3	Discs large, homologue 3
Dlx5/6	Distal-less homeobox 5/6
DM-20	See PLP
DMD	Duchenne muscular dystrophy, Dystrophin
DMPK	Dystrophia myotonica-protein kinase
Dp71	See DMD
E1	Ubiquitin activating enzyme
E1 α PDH	Pyruvate dehydrogenase, subunit E1 α
E2	Ubiquitin conjugating enzyme
E3	Ubiquitin ligase
E3 α	Ubiquitin ligase E3 α , N-recogin 1
E3 β	Ubiquitin ligase E3 β , N-recogin 2
E6-AP	See UBE3A

Table XV-2 | Symbols and full names of all genes and proteins mentioned throughout the text

Gene/protein symbol	Full name
EF-1	Elongation factor 1
EF-1 γ	γ subunit of EF-1
EGFR	Epidermal growth factor receptor
ELK1	ETS-like protein 1
Ena	Enabled
ENaC	Epithelial Na ⁺ channel
ERK1/2	Extracellular signal-regulated kinase 1/2
ETS	E-26 transforming specific
EZH2	Enhancer of zeste 2
F8/9	Coagulation factor VIII/ IX
F-actin	Filamentous Actin
Faf	Fat facets
Far1	Factor arrest 1
FBN1	Fibrillin 1
FBXL1/2/3a/4/5/8	F-box and leucine-rich repeat protein 1/2/3a/4/5/8
FBXO2/5/8/12/15/16/32	F-box only 2/5/8/12/15/16/32
FBXW1a/2/4/7	F-box and WD-40 domain protein 1a/2/4/7
FGD1	Faciogenital dysplasia protein 1
FLNA	Filamin A
FMR1/2/3	Fragile X MR 1/2/3
FMRP	Fragile X MR protein
FtsJ	Filamenting temperature sensitive J
FTSJ1	FtsJ homologue 1
G-actin	Globular Actin
GBA	Glucosidase, β , acid
Gcn4	General control non-derepressible 4
GDI1	GDP dissociation inhibitor 1
GK	Glycerol kinase
GPC3	Glypican 3
Grr1	Glucose repression-resistant 1
GST	Glutathione S-transferase
H1	Histone 1
H2B	Histone 2B
H3	Histone 3
H4	Histone 4
HADH2	Hydroxyacyl-coenzyme A dehydrogenase, type II
HBA2	Hemoglobin, α 2
HCN1	Hyperpolarisation-activated cyclic nucleotide-gated channel 1

Table XV-2 | Symbols and full names of all genes and proteins mentioned throughout the text

Gene/protein symbol	Full name
HIF-1 α/β	Hypoxia-inducible factor 1 α/β
His3	Histidine requiring 3
Hiw	Highwire
HP1	Heterochromatin protein 1
HPRT1	Hypoxanthine phosphoribosyltransferase 1
HTATIP	HIV-1 Tat-interacting protein
IDS	Iduronate 2-sulfatase
IGBP1	Immunoglobulin binding protein 1
IGF1R	Insulin-like growth factor 1 receptor
IKBKG	Inhibitor of NF- κ B kinase, γ subunit
IL-1	Interleukin 1
IL1RAPL1/2	IL-1 receptor accessory protein-like 1/2
Isl-1	Inhibitor of Ser protease-like protein 1
JARID1C	Jumonji ARID 1C, see Smcx
KAP1	KRAB AP 1
KCNA1	K ⁺ voltage-gated channel, subfamily A, member 1
L1CAM	Cell adhesion molecule L1
LacZ	Lactose Z
LAMP2	Lysosomal-associated membrane protein 2
Lbm	Late bloomer
LIMK1	LIM domain kinase 1
Lin-11	Abnormal cell lineage 11
LPH	<i>L. polyphemus</i> Hemocyanin
MAPK	Mitogen-activated protein kinase
MAPT	Microtubule-associated protein Tau
Mec-3	Mechanosensory abnormality 3
MeCP2	Methyl CpG-binding protein 2
MEGAP	Mental disorder-associated GAP
MHBD	2-Methyl-3-hydroxybutyryl-CoA dehydrogenase
MID1	Midline 1
miR-134	Micro RNA 134
MSL3L1	Male-specific lethal 3-like 1
MTM1	Myotubularin 1
NCS1	Neuronal Ca ²⁺ sensor 1
ND4	NADH dehydrogenase, subunit 4
NDP	Norrie disease protein
Nedd8	Neural precursor cell-expressed developmentally down-regulated 8
NF1	Neurofibromin 1

Table XV-2 | Symbols and full names of all genes and proteins mentioned throughout the text

Gene/protein symbol	Full name
NF- κ B	Nuclear factor κ B
NHS	Nance-Horan syndrome
NLGN3/4	Neuroigin 3/4
NMDA-R	NMDA receptor
NR2	NMDA receptor, subunit 2
NuA4	Nucleosome acetyltransferase of H4
NuRD	Nucleosome remodelling and deacetylation complex
NXF5	Nuclear RNA export factor 5
OCRL	Oculocerebrorenal syndrome of Lowe
OFD1	Orofaciodigital 1
OPA1	Optic atrophy 1
OPHN1	Oligophrenin 1
OPN1LW	Opsin 1, long-wave
OPN1MW	Opsin 1, medium-wave
OTC	Ornithine carbamoyltransferase
p21/27/53	Protein of 21/27/53 kDa
PAK1/3	p21-activated kinase 1/3
Parc	p53-associated Parkin-like cytoplasmic protein
PARK2	Parkin
PAX6	Paired box gene 6
PDHA1	Pyruvate dehydrogenase α 1
PGK1	Phosphoglycerate kinase 1
PHF6/8	PHD finger protein 6/8
PLP	Proteolipid protein
PMP-22	Peripheral myelin protein-22
PP2A	Protein phosphatase 2A
PQBP1	Poly-glutamine binding protein 1
PRNP	Prion protein
PRPS1	Phosphoribosyl pyrophosphate synthetase 1
PRSS12	Protease, serine, 12
PS1/2	Presenillin 1/2
PSD-95	Post-synaptic density 95 kDa protein
RAB3A/3C	Ras gene 3A/3C from rat brain
Rac1	Ras-related C3 <i>botulinum</i> toxin substrate 1
REP1	Rab escort protein 1
RNASEL	Ribonuclease L
Rnf6	RING finger protein 6
RPS6KA3	Ribosomal protein S6 kinase A3

Table XV-2 | Symbols and full names of all genes and proteins mentioned throughout the text

Gene/protein symbol	Full name
RSK2/4	Ribosomal S6 kinase 2/4
Rub1	Related to Ubiquitin 1
SAP102	Synapse-associated protein 102
SCN1/3/4/5/7A	Na ⁺ channel, voltage-gated, type I/III/IV/V/VII, α -subunit
SCN1B	Na ⁺ channel, voltage-gated, type I, β -subunit
SETDB1	SET domain, bifurcated 1
ShrmL/S	Shroom long/short
Siah-1a/2	Seven in absentia, homologue 1a/2
Sic1	Subunit inhibitor of cyclin-dependent protein kinase 1
Sin3A-HDAC I	HDAC complex I, subunit Sin3a
SLC16A2	Solute carrier family 16, member 2
SLC6A8	Solute carrier family 6, member 8
Smcx	Selected mouse cDNA on X; see JARID1C
SMS	Spermine synthase
SYN1	Synapsin I
T1	Truncated isoform 1 of TrkB
Tat	Transactivating regulatory protein
TGF β	Transforming growth factor β
TIMM8A	Translocase of MIM 8, homologue A
TM4SF2	TM 4 superfamily, member 2
TrkB	Tropomyosine-related kinase B
TSIX	X _i -specific transcript, anti-sense
Ube2d1	Ubiquitin-conjugating enzyme E2D 1
UBE3A	Ubiquitin protein ligase E3A
UCH-L1	Ubiquitin carboxyl-terminal esterase L1
VASP	Vasodilator-stimulated phosphoprotein
VCX-3A	Variable charge, X-linked 3A
Woc	Without children
XIST	X _i -specific transcript
ZDHHC15	Zinc-finger, DHHC-containing 15
ZNF41/81/261/674/741	ZFP 41/81/261/674/741
ZO-1	Zona occludens 1

