

Table S1. SNO-proteins and SNO-Cys sites

Gene Symbol	UniprotKB Access #	Entry name	SPI %	SNO-Site	Sequence (# denotes SNO-Cys site)	Cortex		Hipp		Cerebellum	
						CK-p25	Ctrl	CK-p25	Ctrl	CK-p25	Ctrl
Cnp	P16330	2',3'-cyclic-nucleotide 3'-phosphodiesterase	76.9	C111c	LDEDLAGY C# RR	✓		✓		✓	
Cnp	P16330	2',3'-cyclic-nucleotide 3'-phosphodiesterase	71.3	C157c	LD C# AQLKEK	✓					
Ado	Q6PDY2	2-aminoethanethiol dioxygenase	68.7	C225c	EASGSA C# DLPR	✓	✓	✓	✓		✓
Rps27l	Q6ZWY3	40S ribosomal proein S27-like	74.8	C77c	LTEG C# SFR	✓	✓	✓	✓		✓
Rps28	P62858	40S ribosomal protein S28	76.3	C27c	TGSQGQ C# TQVR			✓	✓		
Rpl10l	P86048	60S ribosomal protein L10-like	83.1	C195c	LIPDG C# GVK	✓	✓	✓	✓	✓	
Aco2	Q99K10	Aconitate hydratase, mitochondrial	66.5	C385c	VGLIGS C# TNSSYEDMGR	✓				✓	
Adss	P46664	Adenylosuccinate synthetase isozyme 2		C18c	SISESSPAATSLPNDG C# GRPR	✓					
Arfgap1	Q9EPJ9	ADP-ribosylation factor GTPase-activating protein 1	69.9	C350c	SPSSDSWT C# ADASTGRR	✓					
Mllt4	Q9QZQ1	Afadin	72.2	C1700c	DYEPPLSSAP C# APPPPPQR	✓					
Acan	Q61282	Aggrecan core protein	68.5	C220c	EG C# YGDKDEFPGVR	✓					
Cap1	P40124	adenylyl cyclase-associated protein 1	50.8	C426c	NSLDC# EIVSAK	✓					
Add1	Q9QYC0	Alpha-adducin	87.6	C430c	YSDVEVPASVTGHSFASDGDSGT C# SPLR	✓					
Add1	Q9QYC0	Alpha-adducin	67.3	C525c	TAGPQSQVL C# GVMMDR	✓					
Eno1	P17182	Alpha-enolase	83.7	C399c	TGAP C# RSER	✓		✓	✓	✓	✓
Fto	Q8BGW1	Alpha-ketoglutarate-dependent dioxygenase FTO	64.2	C184c	AGVGPS C# DDEVDLKSR	✓					
Man2c1	Q91W89	Alpha-mannosidase 2C1	56	C222c	SFQALHTANQMVNI C# DPAQPETYPAK	✓					
Ank2	Q8C8R3	Ankyrin-2	70.2	C1538c	SGT C# MRDEGR	✓	✓	✓	✓	✓	
Amer2	Q8CCJ4	APC membrane recruitment protein 2	61.7	C665c	AAA C# HDSAK	✓		✓	✓		✓
Agap2	Q3UHD9	Arf-GAP with GTPase, ANK repeat and PH domain-containing protein 2	65.5	C805c	ALSTD C# TPSGDLSPLSR	✓					
As3mt	Q91WU5	Arsenite methyltransferase	58.3	C33c	TSADLQTNA C# VTR	✓					
Asphd1	Q2TA57	Aspartate beta-hydroxylase domain-containing protein 1	71.9	C95c	AGGVSGMPDV C# SQTGPR	✓					
Astn1	Q61137	Astrotactin-1	78.1	C278c	TLDSLQG C# NEK	✓	✓	✓			
Ntrk2	P15209	BDNF/NT-3 growth factors receptor	94.3	C176c	SSPDTQDLY C# LNESSK	✓	✓				
Ntrk2	P15209	BDNF/NT-3 growth factors receptor	72.2	C45c	IW C# TEPSPGIVAFPR	✓					
Hexb	P20060	Beta-hexosaminidase subunit beta	83.1	C288c	NLLTP C# YNQK	✓					
Hexb	P20060	Beta-hexosaminidase subunit beta	80.3	C530c	GIAAQPLYTYG C# NYENKI	✓					
Bcas1	Q80YN3	Breast carcinoma-amplified sequence 1 homolog	89.2	C389c	S C# SPPPPPEPTSEGR	✓	✓	✓	✓	✓	✓
Bcas1	Q80YN3	Breast carcinoma-amplified sequence 1 homolog	57.1	C574c	EPAP C# VQPPTVEANAMQTGDKTPK	✓	✓	✓	✓	✓	✓
Bcas1	Q80YN3	Breast carcinoma-amplified sequence 1 homolog	89.7	C318c	ADSV C# DGHAAGQK	✓	✓	✓	✓	✓	✓

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						CK-p25	Ctrl	CK-p25	Ctrl	CK-p25	Ctrl
Bcan	Q61361	Brevican core protein	93.5	C692c	SWEEAESQ C# R	✓	✓	✓	✓	✓	✓
Bcan	Q61361	Brevican core protein	67.9	C56c	IGATQLRGLVGGALAI C# HVHHLRPPHSRR	✓					
C2cd5	Q7TPS5	C2 domain-containing protein 5	66.4	C884c	SAPP C# ASPTVGVVK	✓					
Pde1b	Q01065	Calcium/calmodulin-dependent 3',5'-cyclic nucleotide phosphodiesterase 1B	64.5	C16c	SPPEMLESD C# PSPLELK	✓					
Camkk1	Q8VBY2	Calcium/calmodulin-dependent protein kinase kinase 1	41.1	C122c	VAISDTE C# VQLNQYK	✓					
Camkk2	Q8C078	Calcium/calmodulin-dependent protein kinase kinase 2	72	C548c	AGP C# GGGGSALVK	✓	✓				✓
Camk2a	P11798	Calcium/calmodulin-dependent protein kinase type II subunit alpha	88.3	C280c	STVAS C# MHR	✓	✓	✓	✓		✓
Camk2a	P11798	Calcium/calmodulin-dependent protein kinase type II subunit alpha	59	C289c	QETVD C# LK	✓	✓	✓	✓		✓
Camk2b	P28652	Calcium/calmodulin-dependent protein kinase type II subunit beta	71.1	C35c	L C# TGHEYAAK	✓		✓			✓
Camsap2	Q8C1B1	Calmodulin-regulated spectrin-associated protein 2	76.8	C649c	EALSP C# PSTISTK	✓					✓
Prkacb	P68181	cAMP-dependent protein kinase catalytic subunit beta	81.1	C349c	C# GKEF C# EF		✓				
Arpp21	Q9DCB4	cAMP-regulated phosphoprotein 21	93.3	C71c	SLAV C# EESSAR	✓	✓	✓	✓		
Cnr1	P47746	Cannabinoid receptor 1	79.3	C450c	AAES C# IKSTVK	✓	✓				✓
Ca4	Q64444	Carbonic anhydrase 4	56.3	C35c	SS C# LGPEK						✓
Ceacam1	P31809 Q925P2	Carcinoembryonic antigen-related cell adhesion molecule 1	81.5	C217c	TLTLLNVTNRDTPYV C# ETR						✓
Caskin1	Q6P9K8	Caskin-1	95.2	C1361c	AAASVVSGPPVSD C# ASPGDSAR	✓					
Ctnnd2	O35927	Catenin delta-2	70.5	C506c	QLQY C# ASVDSYK	✓					
Ctsl	P06797	Cathepsin L1	23	C211c	DGS C# KYR						✓
Cadm2	Q8BLQ9	Cell adhesion molecule 2	60	C248c	IIPSTFPQEGQALTLT C# ESK	✓					
Cadm3	Q99N28	Cell adhesion molecule 3	71.1	C150c	EKETATLN C# QSSGSKPAAQLTWR	✓					✓
Cadm4	Q8R464	Cell adhesion molecule 4	83.0	C145c	EQAVEGGEVELS C# LVPR	✓					
Cnbp	P53996	Cellular nucleic acid-binding protein	61	C159c	TSEVN C# YR	✓	✓	✓	✓		✓
Cep170	Q6A065	Centrosomal protein of 170 kDa	80.8	C211c	SQEAGASG C# STEAK						✓
Cep170	Q6A065	Centrosomal protein of 170 kDa	70.2	C625c	STS C# TTSLASQGER	✓	✓				✓
Chmp5	Q9D7S9	Charged multivesicular body protein 5	70.2	C20c	APPPSLTD C# IGTVDSR	✓					
Cspg5	Q71M36	Chondroitin sulfate proteoglycan 5	85.4	C560c	LEGGKGDQDDLGVN C# LQNNLT	✓					
Clasp2	Q8BRT1	CLIP-associating protein 2	71.6	C968c	KEDGDTI C# SGPMSDPR	✓					
Cfl1	P18760	Cofilin-1	76.9	C80c	MLPDKD C# R	✓	✓	✓	✓		✓
Csde1	Q91W50	Cold shock domain-containing protein E1	56.1	C106c	MNGQVV C# AVPHNLESK	✓					

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Cplx1	P63040	Complexin-1	70.7	C105c	KAIPPG C# GDEPEEEDESILDTVIK	✓					
Cplx2	P84086	Complexin-2	86.8	C90c	AALEQP C# EGSLTRPK	✓	✓		✓	✓	✓
Cntn1	P12960	Contactin-1	80.3	C65c	VSLN C# R			✓	✓	✓	
Cntnap1	O54991	Contactin-associated protein 1	81.8	C1251c	VQGELSESN C# GAMPR	✓	✓				
Cpne6	Q9Z140	Copine-6	64.7	C66c	S C# SSPVFSR			✓	✓		
Coro1c	Q9WUM4	Coronin-1C	71.1	C424c	SELS C# APK		✓	✓			
Cul2	Q9D4H8	Cullin-2	62.3	C266c	VIHE C# QQR			✓			
Uqcrh	P99028	Cytochrome b-c1 complex subunit 6, mitochondrial	87.9	C51c	LEL C# DNR	✓	✓	✓	✓	✓	✓
Uqcrh	P99028	Cytochrome b-c1 complex subunit 6, mitochondrial	74.2	C79c	DH C# VAHK	✓	✓	✓	✓	✓	✓
Uqcrh	P99028	Cytochrome b-c1 complex subunit 6, mitochondrial	64.6	C35c	EH C# EQLEK	✓	✓	✓	✓	✓	✓
Cox6b1	P56391	Cytochrome c oxidase subunit 6B1	72.2	C54c	GGDVSV C# EWYR	✓					
Hccs	P53702	Cytochrome c-type heme lyase	82.8	C70c	AYDYVE C# PVTGAR	✓					
Cyfp2	Q5SQX6	Cytoplasmic FMR1-interacting protein 2	82.5	C1253c	C# FQPIHQSLATT C#	✓					
Dmtn	Q9WV69	Dematin	59.2	C84c	E C# SLSPK		✓				
Dsg1a	Q61495	Desmoglein-1-alpha	56.9	C702c	nSMRE C# R		✓				
Dstn	Q9R0P5	Destrin	58	C23c	C# STPEEIKKR						✓
Rasd1	O35626	Dexamethasone-induced Ras-related protein 1	72.8	C214c	VSVQY C# DVLHkk	✓					
Dpysl2	O08553	Dihydropyrimidinase-related protein 2	96.9	C504c	GLYDGPV C# EVSVTPK	✓		✓	✓	✓	✓
Dlgap3	Q6PFD5	Disks large-associated protein 3	85.4	C103c C106c	MYPGQGPFDT C# ED C# VGHPQGK	✓					✓
Dbl	Q62418	Drebrin-like protein	76.8	C127c	AEEDVEPE C# IMEK	✓					
Map2k7	Q8CE90	Dual specificity mitogen-activated protein kinase kinase 7	57.5	C296c	SAG C# AAYMAPER						✓
Huwe1	Q7TMY8	E3 ubiquitin-protein ligase HUWE1	58.4	C3361c	TKETN C# ESDRER	✓					
Nedd4	P46935	E3 ubiquitin-protein ligase NEDD4	90.6	C365c	LAV C# GNPATSQPVTSSNHSSR	✓					✓
Erc1	Q99M11	ELKS/Rab6-interacting/CAST family member 1	73.3	C258c	TGEP C# VAELTEENFQR	✓					
Eef1g	Q9D8N0	Elongation factor 1-gamma	91.4	C266c	AAAPAPEEEMDE C# EQALAAEPK	✓					
Tufm	Q8BFR5	Elongation factor Tu, mitochondrial	76.9	C127c	HYAHTD C# PGHADYVK	✓					
Gpr3711	Q99JG2	Endothelin B receptor-like protein 2	87.1	C481c	ESPPLLPLGTP C#	✓	✓	✓	✓	✓	✓
Gpr3711	Q99JG2	Endothelin B receptor-like protein 2	85.7	C203c	LLGDVS C# R	✓	✓	✓	✓	✓	✓
Edc3	Q8K2D3	Enhancer of mRNA-decapping protein 3	37.50	C137c	SQDVAISPQQ C# SK	✓					
Echs1	Q8BH95	Enoyl-CoA hydratase, mitochondrial	73.8	C111c	TFQD C# YSSK		✓				

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						CK-p25	Ctrl	CK-p25	Ctrl	CK-p25	Ctrl
Epha6	Q62413	Ephrin type-A receptor 4	59.2	C4c	TAAGYGDFSEPLEV	✓	✓				
Slc1a3	P56564	Excitatory amino acid transporter 1	57.3	C375c	C# LEENNGVDKR					✓	✓
Slc1a2	P43006	Excitatory amino acid transporter 2	94.8	C561c	SAD C# SVEEEPWKRE	✓	✓	✓	✓	✓	✓
Fbxl16	A2RT62	F-box/LRR-repeat protein 16	87.4	C47c	NRP C# QPPPPPTLPPPSLATPLSR	✓					
Fxyd7	P59648	FXYD domain-containing ion transport regulator 7	65.8	C66c	S C# KSELPSSAPGGGGV	✓					
Gprin1	Q3UNH4	G protein-regulated inducer of neurite outgrowth 1	72.3	C174c	VDMP C# SSKVDIVSPGGDNAGSLR	✓					
Eno2	P17183	Gamma-enolase	60.5	C399c	TGAP C# RSER			✓	✓		
Gja1	P23242	Gap junction alpha-1 protein	75.8	C298c	LVTGDRNNS C# R	✓	✓	✓	✓	✓	✓
Gja1	P23242	Gap junction alpha-1 protein	80.5	C260c	SDPYHATTGPLSPSKD C# GSPK	✓				✓	
Gphn	Q8BUV3	Gephyrin	79.9	C284c	LSTAS C# PTPK	✓		✓		✓	✓
Grid2	Q61625	Glutamate receptor ionotropic, delta-2	76.1	C131c	SG C# GLTR					✓	✓
Grin1	P35438	Glutamate receptor ionotropic, NMDA 1	71.4	C798c	YQE C# DSR	✓	✓	✓	✓		✓
Grin2b	Q01097	Glutamate receptor ionotropic, NMDA 2B	60.2	C436c	NTVP C# QKR	✓		✓	✓		
Gfpt1	P47856	Glutamine-fructose-6-phosphate aminotransferase 1	35.7	C262c	VDSTT C# LFPVEEK	✓					
Glul	P15105	Glutamine synthetase	90.2	C49c	TLD C# EPK	✓	✓	✓	✓	✓	✓
Gapdh	P16858	Glyceraldehyde-3-phosphate dehydrogenase	89.7	C150c	IVSNAS C# TTN C# LAPLAK	✓		✓		✓	✓
Gsk3b	Q9WV60	Glycogen synthase kinase-3 beta	56.7	C14c	TTSFAES C# KPVQQPSAFGSMK	✓					
Gpc1	Q9QZF2 P51655 Q9R087	Glypican-1	65	C32c	S C# SEVR		✓				
Gprasp1	Q5U4C1	G-protein coupled receptor-associated sorting protein 1	64.5	C535c	SVGVN C# EkMPK	✓	✓	✓	✓	✓	✓
Gnao1	P18872	Guanine nucleotide-binding protein G(o) subunit alpha	76.6	C108c	MV C# DVVSR	✓		✓		✓	
Hpx	Q91X72	Hemopexin	70.9	C458c	SLPQPQKVNSILG C# SQ	✓					
Hdgf	P51859	Hepatoma-derived growth factor	76.3	C12c	QKEYK C# GDLVFAK					✓	
Hpcal1	P62748	Hipocalcin-like protein 1	55.3	C185c	LLQ C# DPSSASQF	✓			✓		✓
Homer3	Q99JP6	Homer protein homolog 3	79	C311c	SME C# NLEEAR					✓	✓
Hapln1	Q9QUP5	Hyaluronan and proteoglycan link protein 1	78.4	C327c	C# SPTEAAVR		✓	✓	✓		
N/A	P01837	Ig kappa chain C region	56.4	C106c	SFNRNE C#	✓					
Igsf21	Q7TNR6	Immunoglobulin superfamily member 21	76.9	C116c	ISDNNGPYE C# HVGIYDR	✓					
Igsf8	Q8R366	Immunoglobulin superfamily member 8	58.6	C184c	LTVHEGQELALG C# LAQTK	✓				✓	
Itpka	Q8R071	Inositol-trisphosphate 3-kinase A	55.2	C19c	GAGP C# SPGLER	✓					
Itgav	P43406	Integrin alpha-V	52.3	C172c	TVEYAP C# R			✓			

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Icam5	Q60625	Intercellular adhesion molecule 5	94	C607c	VE C# VGSEGA SEGIVLPLVSSNSGPR	✓	✓	✓	✓		
Icam5	Q60625	Intercellular adhesion molecule 5	63.8	C431c	SWTWPEGPEQTLH C# EAR	✓					
Icam5	Q60625	Intercellular adhesion molecule 5	56.6	C551c	C# EAINAR		✓		✓		
Icam5	Q60625	Intercellular adhesion molecule 5	80.7	C724c	C# VATNAHGTD SR	✓	✓	✓	✓		
Icam5	Q60625	Intercellular adhesion molecule 5	92.1	C415c	LDDLD C# PR	✓	✓	✓	✓		
Iqsec1	Q8R0S2	IQ motif and SEC7 domain-containing protein 1	82	C904c	A C# LDDSYASGEGLKR	✓					
Iqsec2	Q5DU25	IQ motif and SEC7 domain-containing protein 2	56.8	C616c	QLVYEADG C# SPHGTLK	✓					
Iscu	Q9D7P6	Iron-sulfur cluster assembly enzyme ISCU, mitochondrial	65.3	C70c	NVGTGLVGAPA C# GDVMK	✓					
Asrgl1	Q8C0M9	Isoaspartyl peptidase/L-asparaginase	77.2	C317c	LQAGIDL C# ETR	✓	✓	✓	✓	✓	✓
Asrgl1	Q8C0M9	Isoaspartyl peptidase/L-asparaginase	85.9	C179c	GAQNAD C# PK	✓	✓	✓	✓	✓	✓
Asrgl1	Q8C0M9	Isoaspartyl peptidase/L-asparaginase	75.4	C326c	TRDLP C#	✓	✓	✓	✓	✓	✓
Krt17	Q9QWL7	Keratin, type I cytoskeletal 17	60.1	C29c C40c	TS C# RLSGSLGAGS C# R	✓					✓
Krt81	Q9ERE2 P97861	Keratin, type II cuticular Hb1 (Fragment)	55.3	C210c	TK C# EEIK						✓
Fn3krp	Q8K274	Ketosamine-3-kinase	63.8	C24c	ATGHSGGG C# ISQGQSYD TDKGR						✓
Khdrbs1	Q60749	KH domain-containing, RNA-binding, signal transduction-associated protein 1	83.7	C19c	S C# SKDPSGAHPSVR	✓	✓	✓	✓	✓	✓
Kcp	Q3U492	Kielin/chordin-like protein	76.9	C278c	I C# Q C# LEGHIQ C# R	✓					
Kif1a	P33173	Kinesin-like protein KIF1A	68.2	C609c	TP C# AETPAEPVDWAF AQR	✓					
Lama1	P19137	Laminin subunit alpha-1	66.4	C3038c	QN C# LSSR				✓		
Llg1	Q80Y17	Lethal(2) giant larvae protein homolog 1	68.3	C190c	SVPDDYR C# GK						✓
Luzp1	Q8R4U7	Leucine zipper protein 1	87.7	C561c	GQVPGHASQGTQAVES S C# SK						✓
Lgi1	Q9JIA1	Leucine-rich glioma-inactivating protein 1	70.7	C55c	DNAL C# ENAR	✓		✓	✓	✓	
Lgi3	Q8K406	Leucine-rich repeat LGI family member 3	76	C52c	DTAF C# VDSK		✓			✓	✓
Rltpr	Q3V3V9	Leucine-rich repeat-containing protein 16C	71.2	C1227c	TSPAPDILSLPEDP C# LGPR	✓					
Lrrc7	Q80TE7	Leucine-rich repeat-containing protein 7	69.7	C541c	SM C# APLPVA AQSTTLPLSLGR	✓					
Lsamp	Q8BLK3	Limbic system-associated membrane protein	76.2	C239c	C# EASAVPAPDFE WYRDDTR		✓				✓
Lsamp	Q8BLK3	Limbic system-associated membrane protein	78.7	C197c	EQSGKYE C# K	✓	✓	✓	✓	✓	✓
Lppr4	Q7TME0	Lipid phosphate phosphatase-related protein type 4	84.7	C605c	NAEGSTVT C# TGSIR	✓	✓	✓	✓		
Lppr4	Q7TME0	Lipid phosphate phosphatase-related protein type 4	66.7	C569c	TVA C# NR	✓	✓	✓	✓		
Ldha	P06151	L-lactate dehydrogenase A chain	77.8	C84c	IVSSKDY C# VTANSK			✓	✓	✓	

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AcsL4	Q9QUJ7	Long-chain-fatty-acid--CoA ligase 4	66.7	C157c	NTIAIF C# ETR	✓					
Prnp	P04925	Major prion protein	94.5	C213c	VVEQM C# VTQYQK	✓	✓		✓	✓	✓
Mdh1	P14152	Malate dehydrogenase, cytoplasmic	74.9	C154c	SAPSIPKENFS C# LTR	✓					
Madd	Q80U28	MAP kinase-activating death domain protein	83.6	C763c	QTETGEGSV C# QR	✓	✓	✓	✓		✓
Map7d1	A2AJI0	MAP7 domain-containing protein 1	84.2	C375c	SASASPLTP C# SAPR	✓	✓			✓	✓
Map1a	Q9QYR6	Microtubule-associated protein 1A	93.9	C2165c	SAP C# GSLAFSGDR	✓	✓		✓		✓
Map1a	Q9QYR6	Microtubule-associated protein 1A	55.4	C2058c	APISLSQDPSPLNGSTTS C# GPDRR	✓					
Map1b	P14873	Microtubule-associated protein 1B	93.6	C1913c	TIKSP C# DSGYSYETIEK	✓	✓			✓	✓
Map1b	P14873	Microtubule-associated protein 1B	91.9	C1936c	TIKTPEDGGYT C# EITEK	✓				✓	
Map1b	P14873	Microtubule-associated protein 1B	79.5	C1224c	SALRDAY C# SEEKELK	✓					
Map1b	P14873	Microtubule-associated protein 1B	61.8	C2037c	SPDTSAY C# YETMEK	✓	✓				
Map1b	P14873	Microtubule-associated protein 1B	55	C2061c	TPQASTYSYETSDR C# YTTEK	✓					
Map1a	Q9QYR6	Microtubule-associated protein 1a	73.1	C2165c	SAP C# GSLAFSGDR	✓	✓		✓		✓
Map2	P20357	Microtubule-associated protein 2	62.7	C759c	MP C# FPIESKEEEDKAEQAK	✓					
Map6	Q7TSJ2	Microtubule-associated protein 6	80	C500c	SLYSEPFKE C# PKVEKPSVQSSKPK						✓
Mapre3	Q6PER3	Microtubule-associated protein RP/EB family member 3	71.8	C182c	LSNVAPP C# ILRKNPPSAR	✓					✓
Mapt	P10637	Microtubule-associated protein tau	61.3	C151c	EAT C# QPSGTRPEDIEK	✓					✓
Mtch2	Q791V5	Mitochondrial carrier homolog 2	79.5	C296c	TY C# YDLR	✓	✓	✓	✓	✓	✓
Tomm40	Q9QYA2	Mitochondrial import receptor subunit TOM40 homolog	80.8	C74c	TPGAAASGAAAASEDGS C# G C# LPNPGTFEE C# HRK	✓					
Marc2	Q922Q1	MOSC domain-containing protein 2, mitochondrial	66.5	C74c	GVSV C# ETE C# TDMGLR	✓					
Rnmt	Q9D0L8	mRNA cap guanine-N7 methyltransferase	65.2	C37c	LPENTPP C# QQVDQPK	✓					
Muc6	Q80T03	Mucin-6	56.9	C966c	VLTENVI C# GkSGVT C# SR	✓					
Plp1	P60202	Myelin proteolipid protein	92.7	C201c	TSASIGSL C# ADAR	✓	✓	✓	✓	✓	✓
Plp1	P60202	Myelin proteolipid protein	75.2	C109c	TTI C# GK			✓			✓
Mag	P20917	Myelin-associated glycoprotein	61.9	C488c	VI C# TSR	✓		✓		✓	
Mog	Q61885	Myelin-oligodendrocyte glycoprotein	83.5	C52c	ALVGDEAELP C# R	✓					
Myadm	O35682	Myeloid-associated differentiation marker	74	C273c	SMDPS C# TR	✓		✓	✓	✓	
Ndufs1	Q91VD9	NADH-ubiquinone oxidoreductase 75 kDa subunit, mitochondrial	88.5	C727c	AVTEGAQAVEEPI C#	✓					✓
Ganab	Q8BHN3	Neutral alpha-glucosidase AB	57.4	C41c C47c	T C# DESSF C# K	✓					
Ncam1	P13595	Neural cell adhesion molecule 1	95.4	C288c	NVDKNDEAEYV C# IAENK	✓	✓	✓	✓		✓

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Table S1. SNO-proteins and SNO-Cys sites

Gene Symbol	UniprotKB Access #	Entry name	SPI %	SNO-Site	Sequence (# denotes SNO-Cys site)	Cortex		Hipp		Cerebellum	
						CK-p25	Ctrl	CK-p25	Ctrl	CK-p25	Ctrl
Ncam1	P13595	Neural cell adhesion molecule 1	80.2	C189c	TDEGTYR C# EGR		✓			✓	
Ncam2	O35136	Neural cell adhesion molecule 2	84.6	C380c	LSDSGRYD C# EAASR	✓					
Ncam2	O35136	Neural cell adhesion molecule 2	63.8	C136c	QGEDAIEVV C# R	✓					
L1cam	P11627	Neural cell adhesion molecule L1	55	C353c	LD C# QVQGRPQPEITWR	✓	✓	✓	✓	✓	✓
Nrxn1	Q9CS84	Neurexin-1	56.2	C679c	QMAEIQSTAGVKPS C# SK	✓					
Ncald	Q91X97	Neurocalcin-delta	82.7	C185c	LLQ C# DPSSAGQF	✓					
Ncan	P55066	Neurocan core protein	83.5	C1167c	GTVL C# GPPPAVENASLVGVR	✓	✓				
Ncan	P55066	Neurocan core protein	66.8	C354c	FDAY C# FR	✓					
Ncan	P55066	Neurocan core protein	63	C279c	AQ C# QR	✓					
Ncdn	Q9Z0E0	Neurochondrin	81.9	C725c	MAALEQ C# LSEP	✓			✓		✓
Scg5	P12961	Neuroendocrine protein 7B2	62.1	C130c	TADDG C# LENAPDTAEFSR	✓					
Nfasc	Q810U3	Neurofascin	93.3	C118c	SGGRPEEYEGEYQ C# FAR	✓					
Nfasc	Q810U3	Neurofascin	81.2	C63c	DNILIE C# EAK	✓	✓		✓		✓
Nrgn	P60761	Neurogranin	73.1	C51c	SGE C# GRKGPGGPGGAGGAR	✓	✓	✓	✓	✓	✓
Nrgn	P60761	Neurogranin	94.8	C51c	SGE C# GR	✓	✓	✓	✓	✓	✓
Nrcam	Q810U4	Neuronal cell adhesion molecule	73.5	C519c	DSTGTYT C# VAR	✓	✓	✓	✓		✓
Nrcam	Q810U4	Neuronal cell adhesion molecule	85.3	C62c	ENIVIQ C# EAK	✓	✓	✓	✓		✓
Negr1	Q80Z24	Neuronal growth regulator 1	77.7	C197c	DQAGEYE C# SAENDVSPDVKK	✓					
Hpca	P84075	Neuron-specific calcium-binding protein hippocalcin	86.3	C185c	LLQ C# DPSSASQF	✓					
Nptn	P97300	Neuroplastin	92.7	C116c	LTLEDSTGYE C# R	✓	✓	✓	✓	✓	✓
Nptn	P97300	Neuroplastin	84.9	C258c	SENKNEGQDAMMY C# K	✓	✓	✓	✓	✓	✓
Nptn	P97300	Neuroplastin	73.7	C217c	AEDSGEYH C# VYHFVSAPK	✓					
Ntm	Q99PJ0	Neurotrimin	93.5	C201c	EQSGEYE C# SASNDVAAPVVR	✓		✓			✓
Slc1a4	O35874 P56564	Neutral amino acid transporter A	90.7	C355c	C# IEENNGVDKR			✓	✓		✓
Ovch2	Q7M761	Ovochymase-2	60.5	C265c	GAWTLAGVTSWGLG C# GRSWRNnAR				✓		
Cask	O70589	Peripheral plasma membrane protein CASK	65.6	C684c	VA C# IAMEK				✓		
Prdx5	P99029	Peroxiredoxin-5, mitochondrial	75.4	C200c	ALNVEPDGTGLT C# SLAPNILSQ	✓					
Prdx6	O08709	Peroxiredoxin-6	91.3	C47c	DFTPV C# TTELGR	✓					
Pip5k1c	O70161	Phosphatidylinositol 4-phosphate 5-kinase type-1 gamma	56.7	C581c	ITVQVEPV C# GVGVPK	✓	✓				
Phyhipl	Q8BGT8 Q8K0S0	Phytanoyl-CoA hydroxylase-interacting protein-like	64.5	C369c	T C# NISVGR	✓		✓	✓	✓	✓

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Table S1. SNO-proteins and SNO-Cys sites

Gene Symbol	UniprotKB Access #	Entry name	SPI %	SNO-Site	Sequence (# denotes SNO-Cys site)	Cortex		Hipp		Cerebellum	
						CK-p25	Ctrl	CK-p25	Ctrl	CK-p25	Ctrl
Pithd1	Q8BWR2	PITH domain-containing protein-1	36.9	C188c	HEVTI C# NYESANPADHR	✓					
Adcyap1r1	P70205	Pituitary adenylate cyclase-activating polypeptide type I receptor	80.2	C34c	EQAM C# LER	✓		✓	✓	✓	✓
Atp2b2	Q9R0K7	Plasma membrane calcium-transporting ATPase 2	94.4	C621c	VIEPMA C# DGLR	✓	✓	✓	✓	✓	✓
Atp2b2	Q9R0K7	Plasma membrane calcium-transporting ATPase 2	55.4	C628c	TI C# VAYR						✓
Plxna4	Q80UG2	Plexin-A4	68.1	C103c	IVQT C# NEPLASTNNVNK	✓					
Pcbp1	P60335	Poly(rC)-binding protein 1	91.9	C194c	VMTIPYQMPASSPVI C# AGGQDR	✓	✓				
Pcbp1	P60335 Q61990 P57722	Poly(rC)-binding protein 1	60.2	C54c	INISEGN C# PER						✓
Hcn2	O88703	Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 2	55	C69c	DSA C# TPGAACK						✓
Atp12a	Q9Z1W8	Potassium-transporting ATPase alpha 2	91.1	C367c	KN C# LVK				✓	✓	✓
Atp12a	Q9Z1W8 Q8VDN2 Q6PIE5 Q6PIC6 Q9WV27	Potassium-transporting ATPase alpha 2	96.7	C716c	LIIVEG C# QR				✓	✓	✓
Gpr37	Q9QY42	Probable G-protein coupled receptor 37	43.1	C600c	EMSTFASVGTG C#	✓					
Gpr158	Q8C419	Probable G-protein coupled receptor 158	79.8	C1166c	AEV C# PWEFEPLEQPNAER	✓					
Lrp1	Q91ZX7	Prolow-density lipoprotein receptor-related protein 1	70.5	C2518c	ILQEDFT C# R	✓		✓			
Ptges2	Q8BWM0	Prostaglandin E synthase 2	58	C382c	AIEEAPSVHHVNPS C# KD						✓
Bsn	O88737	Protein bassoon	85.1	C1133c	SS C# SEYSPSPSLDSEAETLDGGPTR	✓					
Fam114a2	Q8VE88	Protein FAM114A2	69.9	C490c	TESST C# EPQSR	✓					
Phf24	Q80TL4	Protein KIAA1045	76.7	C334c	LTEAPS C# SVSISHVGPIADSSPAASSSK	✓					
Prkce	P16054	Protein kinase C epsilon type	68.1	C74c	TNSPAWHDEFVTDV C# NGR	✓					
Prkcg	P63318	Protein kinase C gamma type	90.4	C305c	FEA C# NYPLELYER	✓					
Prkcg	P63318	Protein kinase C gamma type	73.5	C150c	SVPSL C# GVDHTERR	✓					✓
Prkcg	P63318	Protein kinase C gamma type	60.6	C133c	C# S C# C# EMNVHRR	✓					✓
Ndrg2	Q9QYG0	Protein NDRG2	82.7	C371c	TLSQSSESGTLPSGPPGHTMEVS C#	✓	✓				
Ndrg3	Q9QYF9	Protein NDRG3	81.1	C375c	HQTMEVS C#	✓	✓	✓	✓		✓
Odr4	Q4PJX1	Protein odr-4 homolog	56.2	C274c C286c	STATVQI C# SGSVNLRGnVK C# R						✓
Ppp1r1a	Q9ERT9	Protein phosphatase 1 regulatory subunit 1A	72.5	C147c	TQEQ C# GVEPR	✓	✓	✓	✓		
Ppp1r1b	Q60829	Protein phosphatase 1 regulatory subunit 1B	72.9	C148c	GTVGQKPT C# GR	✓	✓	✓	✓		✓
Ppp1r1b	Q60829	Protein phosphatase 1 regulatory subunit 1B	61.4	C72c	SKRPNP C# AYTPPSLK	✓					

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						CK-p25	Ctrl	CK-p25	Ctrl	CK-p25	Ctrl
Pclo	Q9QYX7	Protein piccolo	71.5	C1222c	VASLA C# EGEQQPDRPEDLPGATPQTLPKDR	✓					
Shisa9	Q9CZN4	Protein shisa-9	63.9	C397c	LGIAESGS C# DPLGTR	✓					
Dnajc6	Q80TZ3	Putative tyrosine-protein phosphatase auxilin	46.3	C16c	HYQTIQEAGDW C# VPSTEPK	✓					
Rab3gap1	Q80UJ7	Rab3 GTPase-activating protein catalytic subunit	42.2	C919c	SG C# PEER					✓	✓
Rabl6	Q5U3K5	Rab-like protein 6	95.3	C501c	VAPQQ C# SEPETK	✓					✓
Ralbp1	Q62172	RalA-binding protein 1	58.2	C622c	GGIGPPP C# DGVLEVR	✓					
Rap1gap2	Q5SVL6	Rap1 GTPase-activating protein 2	57.1	C565c	TR C# DSASSTPK	✓					
Syngap1	F6SEU4	Ras GTPase-activating protein SynGAP	93.7	C821c	SSPAY C# TSSSDITEPEQK	✓					
Rtn1	Q8K0T0	Reticulon-1	77.4	C64c	EL C# SGPAR	✓	✓	✓	✓	✓	✓
Rtn3	Q9ES97	Reticulon-3	72.9	C559c	V C# SAAPPSVLNETGFSLTVPASAK	✓					
Rtn3	Q9ES97	Reticulon-3	69.7	C344c	TS C# TTESTGLDR	✓	✓	✓	✓		
Rtn4	Q99P72	Reticulon-4	90.6	C319c	SKDKEDLV C# SAALHNPQESPATLTK	✓					
Arhgap5	P97393	Rho GTPase-activating protein 5	58.4	C30c	EPRPPSYTVSVVGLSGTEKDKGN C# GVGk		✓				
Ryr2	E9Q401	Ryanodine receptor 2	38.9	C3008c	EKEMVTSLF C# K	✓					
Atp2a2	O55143	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	80	C669c	DA C# LNAR	✓	✓	✓	✓	✓	✓
Atp2a2	O55143	Sarcoplasmic/endoplasmic reticulum calcium ATPase 2	83.9	C998c	NYLEQPGKE C# VQPATK	✓				✓	✓
Scrn1	Q9CZC8	Secernin-1	80	C324c	AQSP C# FGDDDDPAKKEPR	✓				✓	✓
Sept6	Q9R1T4	Septin-6	65.2	C14c	QVGED C# R	✓					
Sept7	O55131	Septin-7	64.4	C17c	SVN C# GTMAQPK	✓	✓				
Srr	Q9QZX7	Serine racemase	85.5	C217c	VYAAEPSNADD C# YQSK	✓					
Dclk1	Q9JLM8	Serine/threonine-protein kinase DCLK1	79.3	C276c	YQDDFLLDESE C# R	✓					
Dclk2	Q6PGN3	Serine/threonine-protein kinase DCLK2	79	C287c	YAQDDFVLHSE C# R	✓	✓	✓	✓		
Wnk2	Q3UH66	Serine/threonine-protein kinase WNK2	57	C1946c	AVQTQQP C# SVR	✓					
Tf	Q92111	Serotransferrin	72.3	C472c	S C# HTGVDR	✓	✓	✓	✓	✓	✓
Tf	Q92111	Serotransferrin	75.1	C67c	TSYPD C# IK	✓	✓	✓	✓		
Tf	Q92111	Serotransferrin	84.4	C692c	LLEA C# TFHKH				✓	✓	
Alb	P07724	Serum albumin	76.4	C289c	YM C# ENQATISSK	✓				✓	✓
Sgip1	Q8VD37	SH3-containing GRB2-like protein 3-interacting protein 1	54.9	C402c	E C# GLGQR			✓			
Slc6a11	P31650	Sodium- and chloride-dependent GABA transporter 3	91.7	C607c	TVT VND C# EAK	✓	✓	✓	✓	✓	✓
Atp1a3	Q6PIC6	Sodium/potassium-transporting ATPase subunit alpha-3	76.9	C49c	KYNTD C# VQGLTHSK	✓	✓	✓	✓	✓	✓

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						CK-p25	Ctrl	CK-p25	Ctrl	CK-p25	Ctrl
Atp1a3	Q6PIC6	Sodium/potassium-transporting ATPase subunit alpha-3	90	C221c	SPD C# THDNPLETR	✓	✓	✓	✓	✓	✓
Atp1a3	Q6PIC6	Sodium/potassium-transporting ATPase subunit alpha-3	90.2	C42c	MSVEEV C# RK	✓	✓	✓	✓	✓	✓
Atp1a3	Q6PIC6	Sodium/potassium-transporting ATPase subunit alpha-3	83.5	C49c	YNTD C# VQGLTHSK	✓	✓	✓	✓	✓	✓
Atp1b1	P14094	Sodium/potassium-transporting ATPase subunit beta-1	89.5	C214c	YNPNVLPVQ C# TGK	✓				✓	
Atp1b1	P14094	Sodium/potassium-transporting ATPase subunit beta-1	55.7	C277c	VE C# K	✓	✓	✓	✓	✓	✓
Atp1b2	P14231	Sodium/potassium-transporting ATPase subunit beta-2	68.2	C129c	NDV C# RPGR	✓	✓	✓	✓	✓	✓
Sf1	Q64213	Splicing factor 1	67.7	C279c	SITNTTV C# TK					✓	
Srcin1	Q9QWI6	SRC kinase signaling inhibitor 1	86	C1017c	AIPDLD C# ASK	✓	✓		✓		
Stub1	Q9WUD1	STIP1 homology and U box-containing protein 1	58.2	C200c	AQQA C# IEAK						✓
sygp1	Q8CHC4	Synaptojanin-1	63.8	C1051c	TSP C# QSPTVPEYSAPSLPIRPSRAPSR	✓					
syp	Q62277	Synaptophysin	86.6	C87c	LHQVYFDAPS C# VK	✓	✓	✓	✓	✓	✓
Syp	Q62277	Synaptophysin	73.1	C184c	MATDPENIIKEMPM C# R	✓	✓				
Syp	Q62277	Synaptophysin	61.5	C191c	QTGNT C# K	✓	✓	✓	✓	✓	✓
Syp	Q62277	Synaptophysin	78.9	C184c	EMPM C# R	✓	✓	✓	✓	✓	✓
Snap47	Q8R570	Synaptosomal-associated protein 47	62.4	C330c	G C# TPHRELPTGGQEGEQLQLQK					✓	
Snph	Q80U23	Syntaphilin	62.3	C43c	DAYGTSSLSSSSNSGS C# K	✓					
Stxbp5l	Q5DQR4	Syntaxin-binding protein 5-like	72	C608c	SLSGSTNTVSSEGVTKDSIP C# LSVK	✓					
Tcp1	P11983	T-complex protein 1 subunit alpha	82.2	C357c	I C# DDELILIK	✓					
Tecpr1	Q80VP0	Tectonin beta-propeller repeat-containing protein 1	72.4	C480c	SDE C# RGPASTPAELPWTNIDLKEPK	✓					
Ercc2	O08811	TFIIH basal transcription factor complex helicase XPD subunit	57.3	C134c	C# HSLTASYVR	✓					
Thop1	Q8C1A5	Thimet oligopeptidase	61.2	C687c	GLQVEGSEAPA C#	✓					
Tm2d2	Q8R0I4	TM2 domain-containing protein 2	32.7	C128c	ALEGIE C# AS	✓					
Tceal3	Q8R0A5 Q8CCT4	Transcription elongation factor A protein-like 3	70.3	C142c	E C# ADMTR	✓	✓	✓	✓		✓
Tacc1	Q6Y685	Transforming acidic coiled-coil-containing protein 1	56.6	C479c	KYEAQPLDLDA C# SQDEGAVISK	✓					
Tsn	Q62348	Translin	76	C225c	GFNKETAAA C# GEK						✓
Tuba1a	P68369 P05213 P68373 P68368	Tubulin alpha-1A chain	78.1	C316c	HGKYMA C# C# LLYRGDVVPK	✓				✓	
Tubb2a	Q7TMM9	Tubulin beta-2A chain	90.7	C354c	TAV C# DIPPR	✓	✓	✓	✓	✓	✓
Tubb2a	Q7TMM9	Tubulin beta-2A chain	79.6	C303c	NMMAA C# DPR	✓	✓	✓	✓	✓	✓

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Gene Symbol	UniprotKB Access #	Entry name	SPI %	SNO-Site	Sequence (# denotes SNO-Cys site)	Cortex		Hipp		Cerebellum	
						CK-p25	Ctrl	CK-p25	Ctrl	CK-p25	Ctrl
Tubb2a	Q7TMM9 Q9CWF2 Q9ERD7 P99024 Q9D6F9 P68372	Tubulin beta-2A chain	79.5	C12c	MREIVHIQAGQ C# GNQIGAK	✓	✓	✓	✓	✓	✓
Uchl1	Q9R0P9	Ubiquitin carboxyl-terminal hydrolase isozyme L1	61.6	C152c	AK C# FEKNEAIQAAHDSVAQEGQ C# R	✓					
Uba52	P62984	Ubiquitin-60S ribosomal protein L40	71.9	C110c	AVN C# R			✓			
Ube2o	Q6ZPJ3	Ubiquitin-conjugating enzyme E2 O	79.1	C593c	VQS C# PDPAVYGVVQSGDHVGR	✓					
Uba5	Q8VE47	Ubiquitin-like modifier-activating enzyme 5	71.2	C33c	SGGDGH C# GR	✓	✓	✓	✓		✓
Ubxn2b	Q0KL01	UBX domain-containing protein 2B	73.7	C54c	STPAT C# R	✓		✓			
Vcam1	P29533	Vascular cell adhesion protein 1	71.3	C668c	QAQLQDAGIYE C# ESKTEVGSQLR	✓					
Vcan	Q62059	Versican core protein	86.9	C3258c	GTVA C# GQPPVVENAK	✓					✓
Vcan	Q62059	Versican core protein	65.4	C217c	EG C# YGDMMGK	✓					
Slc32a1	Slc32a1	Vesicular inhibitory amino acid transporter	26.10	C70c	SEGEPE C# GDEGAEAPVEGDIHYQR	✓					
Vdac2	Q60930	Voltage-dependent anion-selective channel protein 2	95.1	C48c	S C# SGVEFSTSGSSNTDTGK	✓					✓
Cacna2d3	Q9Z1L5	Voltage-dependent calcium channel subunit alpha-2/delta-3	86.8	C969c	LKQTLEP C# DTEYPAFVSER	✓					
Cacna1a	P97445	Voltage-dependent P/Q-type calcium channel subunit alpha-1A	71.6	C2327c	AAG C# ASPR		✓				✓
Atp6v1g1	Q9CR51	V-type proton ATPase subunit G 1	71.5	C69c	EAAALGSHGS C# SSEVEKETR						✓
Wfdc1	Q9ESH5	WAP four-disulfide core domain protein 1	65.2	C80c	C# QADSE C# PR	✓					

Table S1. SNO-proteins and SNO-Cys sites. SNO-proteins and SNO-Cys sites detected in the cortex, hippocampus and cerebellum of control and CK-p25 mice. The ✓ symbol in the last column indicates the detection of the SNO-peptide using both Approach A and B according to tissue and genotype. SPI %, scored peak intensity obtained with Approach B. Hipp, hippocampus.