

Supplemental Material

Table S1. List of proteins nitrosylated in GSNOR^{-/-} placentas as compared to B6 placentas determined using dual-labelling mass spectrometry analysis. All SNOylated proteins were detected in at least 2 of 5 placentas/group. The number in the observation column is the number of placentas that showed expression of that particular SNOylated protein for that particular group.

label	Uniprot Accession	SNO site	Protein name	Log2 fold change vs background GSNOR ^{-/-}	observations
HPDP	Q99L04	C10	Dehydrogenase/reductase SDR family member 1	23.05415	2
HPDP	Q99MN1	C432	Lysine--tRNA ligase	22.7331744	2
HPDP	Q8C7R4	C298	Ubiquitin-like modifier-activating enzyme 6 (Ubiquitin-activating enzyme 6)	22.10295762	2
HPDP	Q8VC70	C217	RNA-binding motif, single-stranded-interacting	21.71700633	2
HPDP	Q9D1I5	C168	Methylmalonyl-CoA epimerase, mitochondrial	21.24558726	2
HPDP	Q9JIG4	C419	Protein phosphatase 1 regulatory subunit 3F (R3F)	20.95864848	2
HPDP	Q9EPK7	C43	Exportin-7 (Exp7) (Ran-binding protein 16)	20.94875308	2
HPDP	Q9QUI0	C164	Transforming protein RhoA	20.91330254	2
HPDP	Q64514	C967	Tripeptidyl-peptidase 2 (TPP-2)	20.80956501	2
HPDP	O70400	C73	PDZ and LIM domain protein 1 (C-terminal LIM domain protein 1) (Elfin) (LIM domain protein CLP-	20.77362179	2
HPDP	P24270	C232	Catalase	20.71680767	2
HPDP	Q8BY89	C401	Choline transporter-like protein 2 (Solute carrier family 44 member 2)	20.70444271	2
HPDP	P61982	C112	14-3-3 protein gamma [Cleaved into: 14-3-3 protein gamma, N-terminally processed]	20.6712323	2
HPDP	Q8VDD5	C740	Myosin-9 (Cellular myosin heavy chain, type A) (Myosin heavy chain 9) (Myosin heavy chain, non-muscle IIa) (Non-muscle myosin heavy chain A) (NMMHC-A) (Non-muscle myosin heavy chain IIa) (NMMHC II-a) (NMMHC-IIA)	20.40955957	2
HPDP	P23198	C177	Chromobox protein homolog 3 (Heterochromatin protein 1 homolog gamma) (HP1 gamma) (M32) (Modifier 2 protein)	20.32635422	2

HPDP	O88844	C73	Isocitrate dehydrogenase [NADP] cytoplasmic (IDH)	20.28660949	2
HPDP	Q7TSI1	C464	Pleckstrin homology domain-containing family M member 1 (PH domain-containing family M member 1)	20.27430909	2
HPDP	Q62419	C277	Endophilin-A2 (Endophilin-2) (SH3 domain protein 2B) (SH3 domain-containing GRB2-like protein 1)	20.1597845	2
HPDP	Q9Z2W0	C411	Aspartyl aminopeptidase	20.08429446	2
HPDP	Q9JL8	C425	Serine--tRNA ligase, mitochondrial	20.04438709	2
HPDP	P21981	C553	Protein-glutamine gamma-glutamyltransferase 2	19.98447735	2
HPDP	Q91Y97	C158	Fructose-bisphosphate aldolase B	19.87182726	2
HPDP	Q9DBN5	C405	Lon protease homolog 2, peroxisomal	19.84850213	2
HPDP	Q8VC03	C421	Echinoderm microtubule-associated protein-like 3 (EMAP-3)	19.83187399	2
HPDP	P62242	C100	40S ribosomal protein S8	19.81349615	2
HPDP	A2ASS6	C29432	Titin	19.79460004	2
HPDP	Q63ZW7	C1406	InaD-like protein (Inadl protein) (Channel-interacting PDZ domain-containing protein) (Pals1-associated tight junction protein) (Protein associated to tight junction protein)	19.70935729	2
HPDP	Q9CPV4	C45	Glyoxalase domain-containing protein 4	19.70621887	2
HPDP	Q68FD5	C1266	Clathrin heavy chain 1	19.69269741	2
HPDP	P54823	C390	Probable ATP-dependent RNA helicase DDX6	19.49673091	2
HPDP	Q91YL2	C32	E3 ubiquitin-protein ligase RNF126	19.48361501	2
HPDP	A6H8H2	C1083	DENN domain-containing protein 4C	19.41978765	3
HPDP	Q01853	C69,C77	Transitional endoplasmic reticulum ATPase (TER ATPase)	19.40789288	2
HPDP	B7ZMP1	C491	Xaa-Pro aminopeptidase 3 (X-Pro aminopeptidase 3)	19.29977564	2
HPDP	A2ASS6	C21780	Titin	19.12293298	2
HPDP	Q9ES28	C427	Rho guanine nucleotide exchange factor 7 (Beta-Pix) (PAK-interacting exchange factor beta) (p85SPR)	19.12161126	2
HPDP	A2ARV4	C2518	Low-density lipoprotein receptor-related protein 2 (LRP-2) (Glycoprotein 330) (gp330) (Megalin)	19.03682762	2

HPDP	Q6ZPJ3	C365	(E3-independent) E2 ubiquitin-conjugating enzyme UBE2O	18.97268389	3
HPDP	Q61655	C392	ATP-dependent RNA helicase DDX19A	18.88880189	2
HPDP	P14824	C669	Annexin A6 (67 kDa calelectrin) (Annexin VI) (Annexin-6) (Calphobindin-II) (CPB-II) (Chromobindin-20) (Lipocortin VI) (Protein III) (p68)	18.8218629	2
HPDP	Q5HZI1	C823	Microtubule-associated tumor suppressor 1 homolog (AT2 receptor-binding protein) (Angiotensin-II type 2 receptor-interacting protein) (Coiled-coiled tumor suppressor gene 1 protein) (Mitochondrial tumor suppressor 1 homolog)	18.76396509	2
HPDP	P53996	C141,C151	Cellular nucleic acid-binding protein (CNBP) (Zinc finger protein 9)	18.75122145	2
HPDP	Q921G6	C454	Leucine-rich repeat and calponin homology domain-containing protein 4	18.56565726	4
HPDP	P82343	C250	N-acylglucosamine 2-epimerase (AGE)	16.42343934	2
HPDP	Q91W50	C129	Cold shock domain-containing protein E1	16.0168855	2
TMT	Q7TNJ0	C89	Dendritic cell-specific transmembrane protein (DC-STAMP) (mDC-STAMP) (Dendrocyte-expressed seven transmembrane protein) (Transmembrane 7 superfamily member 4)	13.72900332	4
TMT	Q8R418	C306	Endoribonuclease Dicer	13.02362462	5
TMT	Q5FW85	C8	Extracellular matrix protein 2 (Tenonectin)	13.00944639	4
TMT	Q8BV57	C6	Soluble scavenger receptor cysteine-rich domain-containing protein SSC5D (Scavenger receptor cysteine-rich domain-containing protein LOC284297)	12.76398811	5
TMT	P70277	C65	Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	12.6184686	5
TMT	Q3UAW9	C362	Transcription factor IIIB 50 kDa subunit (B-related factor 2) (BRF-2)	12.585631	5
TMT	Q8BLR9	C236	Hypoxia-inducible factor 1-alpha inhibitor	12.5665622	5

TMT	Q9JMG4	C8,C14	Sodium/potassium-transporting ATPase subunit beta-1-interacting protein 4 (Na(+)/K(+)-transporting ATPase subunit beta-1-interacting protein 4) (Protein FAM77A)	12.39302865	5
TMT	A1Z198	C330	NACHT, LRR and PYD domains-containing protein 1b allele 2	12.36513178	5
TMT	Q9DB60	C44,C47	Prostamide/prostaglandin F synthase (Prostamide/PG F synthase) (Prostamide/PGF synthase)	12.33380021	5
TMT	P57110	C677	A disintegrin and metalloproteinase with thrombospondin motifs 8 (ADAM-TS 8) (ADAM-	12.30280006	5
TMT	Q571F5	C271	SPRY domain-containing SOCS box protein 3 (SSB-	12.24478409	5
TMT	O09118	C17	Netrin-1	12.21630324	5
TMT	Q8C0W1	C818	Ankyrin repeat and MYND domain-containing protein	12.20108475	5
TMT	Q9DBP5	C20	UMP-CMP kinase	12.14459788	5
TMT	O35963	C48	Ras-related protein Rab-33B	12.08737651	5
TMT	A1L0T3	C138	Scavenger receptor cysteine-rich domain-containing group B protein (Four scavenger receptor cysteine-rich domains-containing protein) (S4D-SRCRB)	11.90176048	5
TMT	Q8CGM1	C1034	Adhesion G protein-coupled receptor B2 (Brain-specific angiogenesis inhibitor 2)	11.8771311	5
TMT	Q9WTN3	C738,C753	Sterol regulatory element-binding protein 1 (SREBP-1) (Sterol regulatory element-binding transcription factor 1) [Cleaved into: Processed sterol regulatory element-binding protein 1]	11.804481	5
TMT	Q8CJ70	C5,C18	Interleukin-19 (IL-19)	11.69925873	5
TMT	Q6DFV8	C217	von Willebrand factor D and EGF domain-containing protein	11.67417859	4

TMT	Q8CGK5	C81	Interferon lambda receptor 1 (IFN-lambda R1) (Cytokine receptor class-II member 12) (Cytokine receptor family 2 member 12) (CRF2-12) (Interleukin-28 receptor subunit alpha) (IL-28 receptor subunit alpha) (IL-28R-alpha) (IL-28RA)	11.61269071	5
TMT	Q4VAE3	C31	Transmembrane protein 65	11.41109714	5
TMT	Q9JLL3	C25	Tumor necrosis factor receptor superfamily member 19 (TRADE) (Toxicity and JNK inducer)	11.35771618	5
TMT	Q8K400	C293	Syntaxin-binding protein 5 (Lethal(2) giant larvae protein homolog 3) (Tomosyn-1)	11.21114736	5
TMT	Q9DC22	C200,C211	DDB1- and CUL4-associated factor 6 (IQ motif and WD repeat-containing protein 1) (Nuclear receptor interaction protein) (NRIP)	11.00286202	5
HPDP	Q9WUM3	C25	Coronin-1B (Coronin-2)	7.079871538	2
HPDP	Q8K274	C11	Ketosamine-3-kinase	5.271225169	2
HPDP	P46471	C389	26S proteasome regulatory subunit 7 (26S proteasome AAA-ATPase subunit RPT1) (Proteasome 26S subunit ATPase 2) (Protein MSS1)	5.062936789	2
HPDP	P62754	C12	40S ribosomal protein S6 (Phosphoprotein NP33)	4.714241907	2
HPDP	Q8R5H1	C264	Ubiquitin carboxyl-terminal hydrolase 15	4.569012373	2
HPDP	Q9JJ28	C1069	Protein flightless-1 homolog	4.407051634	2
HPDP	Q60992	C196,C197	Guanine nucleotide exchange factor VAV2 (VAV-2)	4.179681175	2
HPDP	Q9D662	C425	Protein transport protein Sec23B (SEC23-related protein B)	3.985939588	2
HPDP	O70439	C28	Syntaxin-7	3.955148625	3
HPDP	Q61768	C632	Kinesin-1 heavy chain (Conventional kinesin heavy chain) (Ubiquitous kinesin heavy chain) (UKHC)	3.760958689	2
HPDP	Q99JY3	C61	GTPase IMAP family member 4 (Immunity-associated nucleotide 1 protein) (IAN-1) (Immunity-associated protein 4)	3.614276688	2
HPDP	P99029	C200	Peroxiredoxin-5, mitochondrial	3.604855607	3

HPDP	Q8BZB2	C7	Phosphopantothenoylcysteine decarboxylase (PPC-	3.603461526	2
TMT	Q80VD1	C52	Protein FAM98B	3.259995258	5
TMT	Q80XD8	C9	Proline-rich acidic protein 1 (Pregnancy-specific uterine protein) (Uterine-specific proline-rich acidic	3.172829061	5
TMT	Q9ESD6	C54	CKLF-like MARVEL transmembrane domain-containing protein 7 (Chemokine-like factor superfamily member 7) (LNV)	2.984893682	5
HPDP	Q9CYN2	C26	Signal peptidase complex subunit 2	2.967611159	2
HPDP	P14131	C25	40S ribosomal protein S16	2.96535426	2
TMT	Q9JIP3	C12	Interleukin-17 receptor B (IL-17 receptor B) (IL-17RB) (IL-17 receptor homolog 1) (IL-17ER) (IL-17Rh1) (IL17Rh1) (Interleukin-17B receptor) (IL-17B receptor)	2.927411041	5
TMT	Q8BKK5	C263	Zinc finger protein 689	2.920765805	5
HPDP	Q99LG0	C24	Ubiquitin carboxyl-terminal hydrolase 16	2.800809396	2
HPDP	Q9Z1Z0	C802	General vesicular transport factor p115 (Protein USO1 homolog) (Transcytosis-associated protein) (TAP) (Vesicle-docking protein)	2.748838009	2
TMT	O08738	C259	Caspase-6 (CASP-6)	2.742606331	5
TMT	O88282	C381,C384	B-cell CLL/lymphoma 6 member B protein (Bcl6-associated zinc finger protein)	2.722924669	5
TMT	Q9Z0L3	C371	Otoconin-90 (Oc90) (Otoconin-95) (Oc95)	2.71298463	5
TMT	E9PZZ1	C653	PR domain zinc finger protein 13	2.547554782	4
HPDP	Q8VHX6	C2661	Filamin-C (FLN-C) (ABP-280-like protein) (ABP-L) (Actin-binding-like protein) (Filamin-2) (Gamma-	2.489804487	2
TMT	Q8BYA0	C665	Tubulin-specific chaperone D (Beta-tubulin cofactor D) (Tubulin-folding cofactor D)	2.48712789	5
HPDP	P53996	C120	Cellular nucleic acid-binding protein (CNBP) (Zinc finger protein 9)	2.455112234	2
HPDP	Q8CGB6	C548	Tensin-2	2.399443288	3
HPDP	P15105	C183	Glutamine synthetase (GS)	2.388341937	2

HPDP	Q9CQ58	C101	Prolactin-8A9 (Placental prolactin-like protein C2) (PLP-C2) (PRL-like protein C2) (Prolactin-like protein C-beta) (PLP C-beta)	2.373532499	3
TMT	Q60676	C221	Serine/threonine-protein phosphatase 5 (PP5)	2.35208233	5
HPDP	Q80XN0	C209	D-beta-hydroxybutyrate dehydrogenase, mitochondrial	2.33471439	3
HPDP	Q93092	C250	Transaldolase	2.325417107	2
TMT	Q5F2L2	C13	Alpha-(1,3)-fucosyltransferase 10	2.317276958	5
TMT	O09008	C18	Beta-1,3-N-acetylglucosaminyltransferase manic fringe	2.305226515	4
HPDP	P17742	C67	Peptidyl-prolyl cis-trans isomerase A (PPIase A)	2.291684824	2
HPDP	A2ASS6	C21834	Titin	2.248744617	2
HPDP	O08573	C258	Galectin-9 (Gal-9)	2.210136624	2
HPDP	Q9D1Q6	C92	Endoplasmic reticulum resident protein 44 (ER protein 44) (ERp44) (Thioredoxin domain-containing	2.147055114	2
HPDP	P53995	C988	Anaphase-promoting complex subunit 1 (APC1) (Cyclosome subunit 1) (Mitotic checkpoint regulator) (Testis-specific gene 24 protein)	2.039981245	2
HPDP	P70441	C201	Na(+)/H(+) exchange regulatory cofactor NHE-RF1 (NHERF-1) (Ezrin-radixin-moesin-binding phosphoprotein 50) (EBP50) (Regulatory cofactor of Na(+)/H(+) exchanger) (Sodium-hydrogen exchanger regulatory factor 1) (Solute carrier family 9 isoform A3 regulatory factor 1)	1.988263764	2
TMT	Q9QXW9	C209	Large neutral amino acids transporter small subunit 2 (L-type amino acid transporter 2) (mLAT2) (Solute carrier family 7 member 8)	1.963679629	5
HPDP	P60766	C157	Cell division control protein 42 homolog (G25K GTP-binding protein)	1.950445964	2
TMT	Q66X22	C891,C907,C908	NACHT, LRR and PYD domains-containing protein 9B (NALP-delta)	1.935676951	4

HPDP	P01027	C559	Complement C3 (HSE-MSF) [Cleaved into: Complement C3 beta chain; C3-beta-c (C3bc); Complement C3 alpha chain; C3a anaphylatoxin; Acylation stimulating protein (ASP) (C3adesArg); Complement C3b alpha' chain; Complement C3c alpha' chain fragment 1; Complement C3dg fragment; Complement C3g fragment; Complement C3d fragment; Complement C3f fragment; Complement C3c alpha' chain fragment 2]	1.93095258	2
HPDP	O88986	C26	2-amino-3-ketobutyrate coenzyme A ligase, mitochondrial (AKB ligase)	1.921218785	2
HPDP	P35979	C141	60S ribosomal protein L12	1.912774567	2
HPDP	P63017	C603	Heat shock cognate 71 kDa protein (Heat shock 70 kDa protein 8)	1.900311126	2
TMT	Q8BLY7	C180	Hermansky-Pudlak syndrome 6 protein homolog (Ruby-eye protein) (Ru)	1.878707928	5
HPDP	Q7TMW6	C270	Cytosolic iron-sulfur assembly component 3 (Cytosolic Fe-S cluster assembly factor NARFL) (Iron-only hydrogenase-like protein 1) (IOP1) (Nuclear prelamins A recognition factor-like protein)	1.847995032	2
HPDP	Q60864	C461	Stress-induced-phosphoprotein 1 (STI1) (mSTI1) (Hsc70/Hsp90-organizing protein) (Hop)	1.832341765	2
HPDP	A2ASS6	C13473	Titin	1.794763146	2
TMT	Q8K4G1	C1393,C1403	Latent-transforming growth factor beta-binding protein 4 (LTBP-4)	1.71923574	5
HPDP	O89053	C24	Coronin-1A (Coronin-like protein A) (Clipin-A) (Coronin-like protein p57) (Tryptophan aspartate-containing coat protein) (TACO)	1.710727777	2
TMT	Q7TPG7	C107	Protein FAM19A2 (Chemokine-like protein TAFA-2)	1.706388912	5
HPDP	Q9QUM9	C167	Proteasome subunit alpha type-6	1.696998107	2
HPDP	Q80X90	C1434	Filamin-B (FLN-B) (ABP-280-like protein) (Actin-binding-like protein) (Beta-filamin)	1.668503957	2

HPDP	A2ASS6	C33458	Titin	1.640392354	2
HPDP	Q61553	C481	Fascin (Singed-like protein)	1.636609875	2
HPDP	P61514	C48	60S ribosomal protein L37a	1.593487828	2
HPDP	P61161	C221	Actin-related protein 2 (Actin-like protein 2)	1.554988721	2
TMT	P46097	C91	Synaptotagmin-2 (Inositol polyphosphate-binding protein) (IP4-binding protein) (IP4BP) (Synaptotagmin II) (SytII)	1.554328226	5
HPDP	Q8VDF3	C347	Death-associated protein kinase 2 (DAP kinase 2)	1.52416734	2
HPDP	Q78PY7	C152	Staphylococcal nuclease domain-containing protein 1	1.520546542	2
HPDP	Q8BTM8	C2582	Filamin-A (FLN-A) (Actin-binding protein 280) (ABP-280) (Alpha-filamin) (Endothelial actin-binding protein) (Filamin-1) (Non-muscle filamin)	1.416572906	2
HPDP	Q64514	C150	Tripeptidyl-peptidase 2 (TPP-2)	1.399757173	2
HPDP	Q09324	C100	Beta-1,3-galactosyl-O-glycosyl-glycoprotein beta-1,6-N-acetylglucosaminyltransferase	1.397345074	2
HPDP	Q9CY97	C12	RNA polymerase II subunit A C-terminal domain phosphatase SSU72 (CTD phosphatase SSU72)	1.39424147	2
HPDP	P39054	C607	Dynamin-2	1.374247771	2
HPDP	P68040	C153	Receptor of activated protein C kinase 1 (12-3) (Guanine nucleotide-binding protein subunit beta-2-like 1) (Receptor for activated C kinase) (Receptor of activated protein kinase C 1) (p205) [Cleaved into: Receptor of activated protein C kinase 1, N-terminally processed (Guanine nucleotide-binding protein subunit beta-2-like 1, N-terminally processed)]	1.359971038	3
HPDP	P26039	C956	Talin-1	1.354647422	2
HPDP	O70133	C440	ATP-dependent RNA helicase A	1.344512262	2
HPDP	Q80X90	C991	Filamin-B (FLN-B) (ABP-280-like protein) (Actin-binding-like protein) (Beta-filamin)	1.337916373	2

HPDP	Q99K30	C546	Epidermal growth factor receptor kinase substrate 8-like protein 2 (EPS8-like protein 2) (Epidermal growth factor receptor pathway substrate 8-related protein 2) (EPS8-related protein 2)	1.332404247	2
HPDP	P62908	C134	40S ribosomal protein S3	1.319576402	2
HPDP	E9Q394	C609	A-kinase anchor protein 13 (AKAP-13) (AKAP-Lbc)	1.277028431	3
TMT	P02798	C33	Metallothionein-2 (MT-2) (Metallothionein-II) (MT-	1.266697299	4
HPDP	P62908	C119	40S ribosomal protein S3	1.254357417	2
HPDP	Q99LR1	C40	Monoacylglycerol lipase ABHD12	1.23650774	2
HPDP	P46471	C377	26S proteasome regulatory subunit 7 (26S proteasome AAA-ATPase subunit RPT1) (Proteasome 26S subunit ATPase 2) (Protein MSS1)	1.228249064	2
HPDP	P28653	C77	Biglycan (Bone/cartilage proteoglycan I) (PG-S1)	1.222294589	2
HPDP	O35075	C243	Down syndrome critical region protein 3 homolog (Down syndrome critical region protein A homolog)	1.212332349	2
HPDP	P61161	C11	Actin-related protein 2 (Actin-like protein 2)	1.199108066	2
HPDP	P01837	C106	Immunoglobulin kappa constant (Ig kappa chain C region MOPC 21)	1.19005698	2
TMT	Q61554	C1099	Fibrillin-1 [Cleaved into: Asprosin]	1.179059728	3
HPDP	Q80X90	C1280	Filamin-B (FLN-B) (ABP-280-like protein) (Actin-binding-like protein) (Beta-filamin)	1.169029965	2
HPDP	D3YYU8	C149	Obscurin-like protein 1	1.102544141	2
HPDP	P53996	C159	Cellular nucleic acid-binding protein (CNBP) (Zinc finger protein 9)	1.087825704	2
TMT	P56546	C18	C-terminal-binding protein 2 (CtBP2)	1.074827722	3
HPDP	Q9JJ28	C576	Protein flightless-1 homolog	1.067369682	2
HPDP	Q80X90	C604	Filamin-B (FLN-B) (ABP-280-like protein) (Actin-binding-like protein) (Beta-filamin)	1.066918314	2
TMT	Q811Q4	C430	Disintegrin and metalloproteinase domain-containing protein 29 (ADAM 29)	1.066068555	3
HPDP	A2ASS6	C20340	Titin	1.062863942	2

HPDP	Q9DBF1	C522	Alpha-aminoadipic semialdehyde dehydrogenase (Alpha-AASA dehydrogenase)	1.062682493	2
HPDP	P52480	C49	Pyruvate kinase PKM	1.060038804	2
HPDP	Q9D1A2	C300	Cytosolic non-specific dipeptidase	1.044536941	2
TMT	Q6R5P0	C743	Toll-like receptor 11 (Toll-like receptor 12)	1.020796529	4
HPDP	Q8K4I3	C563	Rho guanine nucleotide exchange factor 6 (Alpha-PIX) (Rac/Cdc42 guanine nucleotide exchange factor)	1.015633881	2
HPDP	P31230	C159	Aminoacyl tRNA synthase complex-interacting multifunctional protein 1 (Multisynthase complex auxiliary component p43) [Cleaved into: Endothelial monocyte-activating polypeptide 2 (EMAP-2) (Endothelial monocyte-activating polypeptide II) (EMAP-II) (Small inducible cytokine subfamily E	0.995152319	2
HPDP	Q8VD04	C104	GRIP1-associated protein 1 (GRASP-1) (HCMV-interacting protein) [Cleaved into: GRASP-1 C-terminal chain (30kDa C-terminus form)]	0.963548687	3
HPDP	Q8R146	C309	Acylamino-acid-releasing enzyme (AARE)	0.921391689	2
TMT	P15920	C315	V-type proton ATPase 116 kDa subunit a isoform 2 (V-ATPase 116 kDa isoform a2) (Immune suppressor factor J6B7) (ISF) (Lysosomal H(+)-transporting ATPase V0 subunit a2) (ShIF) (Vacuolar proton translocating ATPase 116 kDa subunit a isoform 2)	0.912327311	2
HPDP	P12399	C103	Protein CTLA-2-alpha (Cytotoxic T-lymphocyte-associated protein 2-alpha)	0.908725648	2
HPDP	P41105	C13	60S ribosomal protein L28	0.866404857	2
HPDP	Q8BGF6	C98	ELMO domain-containing protein 2	0.863404858	2
HPDP	Q9DCM0	C34	Persulfide dioxygenase ETHE1, mitochondrial	0.859102687	2
HPDP	O54988	C1136	STE20-like serine/threonine-protein kinase (STE20-like kinase) (mSLK)	0.854916117	2
HPDP	D3Z6Q9	C425	Bridging integrator 2	0.828034499	2

HPDP	P11983	C357	T-complex protein 1 subunit alpha (TCP-1-alpha) (CCT-alpha) (Tailless complex polypeptide 1A) (TCP-1-A) (Tailless complex polypeptide 1B) (TCP-1-B)	0.815170441	2
HPDP	P62874	C25	Guanine nucleotide-binding protein G(I)/G(S)/G(T) subunit beta-1 (Transducin beta chain 1)	0.777801095	2
HPDP	Q9JHW9	C164	Aldehyde dehydrogenase family 1 member A3	0.775764306	2
HPDP	Q64213	C279	Splicing factor 1 (CW17) (Mammalian branch point-binding protein) (BBP) (mBBP) (Transcription factor ZFM1) (mZFM) (Zinc finger gene in MEN1 locus) (Zinc finger protein 162)	0.727433087	2
HPDP	Q80X90	C450,C455	Filamin-B (FLN-B) (ABP-280-like protein) (Actin-binding-like protein) (Beta-filamin)	0.723299502	2
HPDP	P21981	C370	Protein-glutamine gamma-glutamyltransferase 2	0.702284056	2
HPDP	P62983	C144,C155	Ubiquitin-40S ribosomal protein S27a (Ubiquitin carboxyl extension protein 80) [Cleaved into: Ubiquitin; 40S ribosomal protein S27a]	0.697668035	2
HPDP	Q8VDP3	C82	[F-actin]-monooxygenase MICAL1	0.684887184	2
HPDP	Q91W34	C12	RUS1 family protein C16orf58 homolog	0.643663222	2

Table S2. List of proteins nitrosylated in GSNOR^{-/-} placentas as compared to B6 placentas and B6- and GSNOR^{-/-} placentas treated with ascorbate. All SNOylated proteins were detected in at least 2 of 5 placentas/group. The number in the observation column is the number of placentas that showed expression of that particular SNOylated protein for that

label	Uniprot Accession	SNO site	Protein name	Log2 fold change vs background GSNOR ^{-/-}	observations
TMT	Q8R418	C306	Endoribonuclease Dicer	13.0236246	5
TMT	Q5FW85	C8	Extracellular matrix protein 2 (Tenonectin)	13.0094464	4
TMT	Q8BV57	C6	Soluble scavenger receptor cysteine-rich domain-containing protein SSC5D (Scavenger receptor cysteine-rich domain-containing protein LOC284297 homolog)	12.7639881	5
TMT	P70277	C65	Alpha-N-acetylgalactosaminide alpha-2,6-sialyltransferase 2	12.6184686	5
TMT	Q9JMG4	C8,C14	Sodium/potassium-transporting ATPase subunit beta-1-interacting protein 4 (Na(+)/K(+)-transporting ATPase subunit beta-1-interacting protein 4) (Protein FAM77A)	12.3930287	5
TMT	A1Z198	C330	NACHT, LRR and PYD domains-containing protein 1b allele 2	12.3651318	5
TMT	Q9DB60	C44,C47	Prostamide/prostaglandin F synthase (Prostamide/PGF synthase) (Prostamide/PGF synthase)	12.3338002	5
TMT	P57110	C677	A disintegrin and metalloproteinase with thrombospondin motifs 8 (ADAM-TS 8) (ADAM-TS8) (ADAMTS-8)	12.3028001	5
TMT	Q571F5	C271	SPRY domain-containing SOCS box protein 3 (SSB-3)	12.2447841	5
TMT	O09118	C17	Netrin-1	12.2163032	5
TMT	Q8C0W1	C818	Ankyrin repeat and MYND domain-containing protein 1	12.2010848	5
TMT	Q9DBP5	C20	UMP-CMP kinase	12.1445979	5
TMT	O35963	C48	Ras-related protein Rab-33B	12.0873765	5
TMT	A1L0T3	C138	Scavenger receptor cysteine-rich domain-containing group B protein (Four scavenger receptor cysteine-rich domains-containing protein) (S4D-SRCRB)	11.9017605	5

TMT	Q8CGM1	C1034	Adhesion G protein-coupled receptor B2 (Brain-specific angiogenesis inhibitor 2)	11.8771311	5
TMT	Q9WTN3	C738,C753	Sterol regulatory element-binding protein 1 (SREBP-1) (Sterol regulatory element-binding transcription factor 1) [Cleaved into: Processed sterol regulatory element-binding protein 1]	11.804481	5
TMT	Q8CJ70	C5,C18	Interleukin-19 (IL-19)	11.6992587	5
TMT	Q6DFV8	C217	von Willebrand factor D and EGF domain-containing protein	11.6741786	4
TMT	Q8CGK5	C81	Interferon lambda receptor 1 (IFN-lambda R1) (Cytokine receptor class-II member 12) (Cytokine receptor family 2 member 12) (CRF2-12) (Interleukin-28 receptor subunit alpha) (IL-28 receptor subunit alpha) (IL-28R-alpha) (IL-28RA)	11.6126907	5
TMT	Q4VAE3	C31	Transmembrane protein 65	11.4110971	5
TMT	Q9JLL3	C25	Tumor necrosis factor receptor superfamily member 19 (TRADE) (Toxicity and JNK inducer)	11.3577162	5
TMT	Q8K400	C293	Syntaxin-binding protein 5 (Lethal(2) giant larvae protein homolog 3) (Tomosyn-1)	11.2111474	5
TMT	Q9DC22	C200,C211	DDB1- and CUL4-associated factor 6 (IQ motif and WD repeat-containing protein 1) (Nuclear receptor interaction protein) (NRIP)	11.002862	5
TMT	Q80VD1	C52	Protein FAM98B	3.25999526	5
TMT	Q80XD8	C9	Proline-rich acidic protein 1 (Pregnancy-specific uterine protein) (Uterine-specific proline-rich acidic protein)	3.17282906	5
TMT	Q9ESD6	C54	CKLF-like MARVEL transmembrane domain-containing protein 7 (Chemokine-like factor superfamily member 7) (LNV)	2.98489368	5
TMT	Q9JIP3	C12	Interleukin-17 receptor B (IL-17 receptor B) (IL-17RB) (IL-17 receptor homolog 1) (IL-17ER) (IL-17Rh1) (IL17Rh1) (Interleukin-17B receptor) (IL-17B receptor)	2.92741104	5
TMT	Q8BKK5	C263	Zinc finger protein 689	2.9207658	5
TMT	O08738	C259	Caspase-6 (CASP-6)	2.74260633	5
TMT	O88282	C381,C384	B-cell CLL/lymphoma 6 member B protein (Bcl6-associated zinc finger protein)	2.72292467	5

TMT	Q9Z0L3	C371	Otoconin-90 (Oc90) (Otoconin-95) (Oc95)	2.71298463	5
TMT	E9PZZ1	C653	PR domain zinc finger protein 13	2.54755478	4
TMT	Q8BYA0	C665	Tubulin-specific chaperone D (Beta-tubulin cofactor D) (Tubulin-folding cofactor D)	2.48712789	5
TMT	Q60676	C221	Serine/threonine-protein phosphatase 5 (PP5)	2.35208233	5
TMT	Q5F2L2	C13	Alpha-(1,3)-fucosyltransferase 10	2.31727696	5
TMT	O09008	C18	Beta-1,3-N-acetylglucosaminyltransferase manic fringe	2.30522651	4
HPDP	A2ASS6	C21834	Titin	2.24874462	2
TMT	Q9QXW9	C209	Large neutral amino acids transporter small subunit 2 (L-type amino acid transporter 2) (mLAT2) (Solute carrier family 7	1.96367963	5
TMT	Q66X22	C891,C907,C908	NACHT, LRR and PYD domains-containing protein 9B (NALP-delta)	1.93567695	4
TMT	Q8BLY7	C180	Hermansky-Pudlak syndrome 6 protein homolog (Ruby-eye protein) (Ru)	1.87870793	5
TMT	Q8K4G1	C1393,C1403	Latent-transforming growth factor beta-binding protein 4 (LTBP-4)	1.71923574	5
TMT	Q7TPG7	C107	Protein FAM19A2 (Chemokine-like protein TAFA-2)	1.70638891	5
TMT	P46097	C91	Synaptotagmin-2 (Inositol polyphosphate-binding protein) (IP4-binding protein) (IP4BP) (Synaptotagmin II) (SytII)	1.55432823	5
TMT	P02798	C33	Metallothionein-2 (MT-2) (Metallothionein-II) (MT-II)	1.2666973	4
HPDP	P01837	C106	Immunoglobulin kappa constant (Ig kappa chain C region MOPC 21)	1.19005698	2
TMT	Q61554	C1099	Fibrillin-1 [Cleaved into: Asprosin]	1.17905973	3
TMT	P56546	C18	C-terminal-binding protein 2 (CtBP2)	1.07482772	3
TMT	Q811Q4	C430	Disintegrin and metalloproteinase domain-containing protein 29 (ADAM 29)	1.06606856	3
TMT	Q6R5P0	C743	Toll-like receptor 11 (Toll-like receptor 12)	1.02079653	4

TMT	P15920	C315	V-type proton ATPase 116 kDa subunit a isoform 2 (V-ATPase 116 kDa isoform a2) (Immune suppressor factor J6B7) (ISF) (Lysosomal H(+)-transporting ATPase V0 subunit a2) (ShIF) (Vacuolar proton translocating ATPase 116 kDa subunit a isoform 2)	0.91232731	2
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Table S3. List of peptides identified using mass spectrometry analysis.				
Gene	Protein	SNO site	Peptide Modified Sequence	original label
1433G_MOUSE	P61982	C112	NC[+57]SETQYESK	HPDP
A16A1_MOUSE	Q571I9	C249	VAFC[+57]GAVEEGR	HPDP
AAK1_MOUSE	Q3UHQ0	C319	EC[+57]PVPNVQNSPIPAK	HPDP
AATM_MOUSE	P05202	C295	VGAFTVVC[+329]K	IodoTMT6
ABD12_MOUSE	Q99LR1	C40	C[+125]AASGSSSSGSAAAALDADC[+57]SLK	HPDP
ABI1_MOUSE	Q8CBW3	C33	VADYC[+57]ENNYIQATDK	HPDP
ABLM1_MOUSE	Q8K4G5	C146	NGDYLC[+57]TLDYQR	HPDP
ACINU_MOUSE	Q9JIX8	C513	SSLPEC[+57]STQK	HPDP
ACOC_MOUSE	P28271	C392	DFESC[+57]LGAK	HPDP
ACTG_MOUSE	P63260	C17	EEEIAALVIDNGSGMC[+329]K	IodoTMT6
ACTN1_MOUSE	Q7TPR4	C480	IC[+57]DQWDNLGALTQK	HPDP
ACTN4_MOUSE	Q7TPR4	C860	ELPPDQAEYC[+329]IAR	IodoTMT6
ADA29_MOUSE	Q811Q4	C430	EQC[+125]DC[+125]GSLRNC[+125]TNDLC[+329]CMSNCTLSTK	IodoTMT6
AEDO_MOUSE	Q6PDY2	C225	EASGSAC[+57]DLPR	HPDP
AGK_MOUSE	Q9ESW4	C72	ATVFLNPAAC[+57]K	HPDP
AGM1_MOUSE	Q9CYR6	C200	AFVDLTNQVSC[+57]SGDVK	HPDP
AGM1_MOUSE	Q9CYR6	C348	VPVYC[+57]TK	HPDP
AGRB2_MOUSE	Q8CGM1	C1034	FLC[+329]LGWGLPALVVAVSVGFTRTK	IodoTMT6
AGRG4_MOUSE	B7ZCC9	C2279,C2281	GQGM[+16]DAIFHVPYSC[+329]AC[+329]WVIKAKSSLESVEL	IodoTMT6
AHDC1_MOUSE	Q6PAL7	C788	NC[+57]GFQGTEAR	HPDP
AIFM1_MOUSE	Q9Z0X1	C440	SNIWVAGDAAC[+57]FYDIK	HPDP
AIMP1_MOUSE	P31230	C159	IGC[+57]IVTAK	HPDP
AIMP2_MOUSE	Q8R010	C168	C[+57]FGEQAR	HPDP
AKA10_MOUSE	O88845	C110	SC[+57]LDYQTQETK	HPDP
AKA12_MOUSE	Q9WTQ5	C1113	ATTC[+57]QVIK	HPDP
AKP13_MOUSE	E9Q394	C1644	QQGFNYC[+57]TSAISSPLTK	HPDP
AKP13_MOUSE	E9Q394	C417	EGLPSC[+57]GNR	HPDP
AKP13_MOUSE	E9Q394	C609	VLGGQEPDTSIAGFC[+57]K	HPDP
AL1A3_MOUSE	Q9JHW9	C164	TIPTDDNVVC[+57]FTR	HPDP
AL3A2_MOUSE	P47739	C229	DC[+125]DLDVAC[+329]R	IodoTMT6

AL7A1_MOUSE	Q9DBF1	C522	STC[+57]TINYSTSLPLAQGIK	HPDP
ALBU_MOUSE	P07724	C289	YMC[+57]ENQATISSK	HPDP
ALBU_MOUSE	P07724	C294	YM[+16]C[+57]ENQATISSK	HPDP
ALBU_MOUSE	P07724	C416	TNC[+57]DLYEK	HPDP
ALBU_MOUSE	P07724	C58	C[+57]SYDEHAK	HPDP
ALBU_MOUSE	P07724	C591	DTC[+57]FSTEGPNLVTR	HPDP
ALBU_MOUSE	P07724	C77, C86	TC[+57]VADESAANC[+57]DK	HPDP
ALBU_MOUSE	P07724	C289	YMC[+329]ENQATISSK	IodoTMT6
ALBU_MOUSE	P07724	C591	AADKDTC[+329]FSTEGPNLVTR	IodoTMT6
ALBU_MOUSE	P07724	C77,C86	TC[+329]VADESAANC[+329]DK	IodoTMT6
ALDH2_MOUSE	P47738	C68	TFPTVNPSTGEVIC[+57]QVAEGNK	HPDP
ALDOA_MOUSE	P05064	C339	ALANSLAC[+57]QGK	HPDP
ALDOA_MOUSE	P05064	C339	RALANSLAC[+57]QGK	HPDP
ALDOB_MOUSE	Q91Y97	C158	IADQC[+57]PSSLAIQENANALAR	HPDP
ALDOB_MOUSE	Q91Y97	C269	TVPAAVPGIC[+57]FLSGGMSEEDATLNLNAINR	HPDP
AMPL_MOUSE	Q9CPY7	C445	QVIDC[+57]QLADVNNLGK	HPDP
ANKL2_MOUSE	Q6P1H6	C462	TPEEVIC[+57]ER	HPDP
ANMY1_MOUSE	Q8C0W1	C818	ALYLSKRAELAPC[+329]HR	IodoTMT6
ANR17_MOUSE	Q99NH0	C2059	NSPLDC[+57]GSASPDK	HPDP
ANX11_MOUSE	P97384	C224	GFGTDEQAIIDC[+57]LGSR	HPDP
ANXA4_MOUSE	P97429	C141	SLEEDIC[+329]SDTSFMFQR	IodoTMT6
ANXA6_MOUSE	P14824	C669	ALLALC[+57]GGED	HPDP
AP1B1_MOUSE	O35643	C863	DC[+57]PLNTEAASNK	HPDP
AP1G1_MOUSE	P22892	C400	ADC[+57]ASGIFLAAEK	HPDP
AP2A2_MOUSE	P17427	C902	TTQIGC[+57]LLR	HPDP
APC1_MOUSE	P53995	C988	QAC[+57]EGNLPR	HPDP
APEH_MOUSE	Q8R146	C309	C[+125]ELLSDESLAVC[+57]SPR	HPDP
AQP1_MOUSE	Q02013	C189	DLGGSAPLAIGLSVALGHLLAIDYTGCC[+329]GINPAR	IodoTMT6
ARAF_MOUSE	P04627	C595	TQADELPAC[+57]LLSAAR	HPDP
ARFG1_MOUSE	Q9EPJ9	C350	SPSSDSWTC[+57]ADASTGR	HPDP
ARHG6_MOUSE	Q8K4I3	C25	TVC[+57]DPEEFLK	HPDP
ARHG6_MOUSE	Q8K4I3	C563	TSSSSC[+57]STHSSFSSTGQPR	HPDP

ARHG7_MOUSE	Q9ES28	C427	NLSAQC[+57]QEVK	HPDP
ARHG7_MOUSE	Q9ES28	C700	VIEAYC[+57]TSAK	HPDP
ARHGC_MOUSE	Q8R4H2	C1325	TGTGDIATC[+57]DSPR	HPDP
ARP2_MOUSE	P61161	C11	VVVC[+57]DNGTGFK	HPDP
ARP2_MOUSE	P61161	C11	KVVVC[+57]DNGTGFK	HPDP
ARP2_MOUSE	P61161	C221	LC[+57]YVGYNIEQEQK	HPDP
ARP3_MOUSE	Q99JY9	C408	DYEEIGPSIC[+57]R	HPDP
ARP3_MOUSE	Q99JY9	C408	KDYEEIGPSIC[+57]R	HPDP
ARP3_MOUSE	Q99JY9	C8, C12	LPAC[+57]VVDC[+57]GTGYTK	HPDP
ARP3_MOUSE	Q99JY9	C408	KDYEEIGPSIC[+329]R	IodoTMT6
ARP3_MOUSE	Q99JY9	C408	DYEEIGPSIC[+329]R	IodoTMT6
ARRB1_MOUSE	Q8BWG8	C150	AFC[+57]AENLEEK	HPDP
AS3MT_MOUSE	Q91WU5	C33	TSADLQTNAC[+329]VTR	IodoTMT6
ASAH1_MOUSE	Q9WV54	C291	SGEGC[+57]VITR	HPDP
AT131_MOUSE	Q9EPE9	C333	SPQENLVPC[+57]DVLLLR	HPDP
AT1A1_MOUSE	Q8VDN2	C211	IISANGC[+57]K	HPDP
AT2A2_MOUSE	O55143	C377	VEGDTC[+57]SLNEFSITGSTYAPIGEVQK	HPDP
AT2A2_MOUSE	O55143	C669	DAC[+57]LNAR	HPDP
ATS8_MOUSE	P57110	C677	GQC[+329]VKAGCDHVVNSPKK	IodoTMT6
BAG3_MOUSE	Q9JLV1	C185	SQSPAASDC[+57]SSSSSSASLPSSGR	HPDP
BAG3_MOUSE	Q9JLV1	C154	QC[+329]GQMPATATTAQAQPPTAHGPER	IodoTMT6
BCL6B_MOUSE	O88282	C381,C384	IHSGEKPYKC[+329]ETC[+329]GSRFVQVAHLR	IodoTMT6
BDH_MOUSE	Q80XN0	C209	SPYC[+57]ITK	HPDP
BIN2_MOUSE	D3Z6Q9	C425	ASGSGSC[+57]NAPGSPEGSSQLC[+125]SPR	HPDP
BOLA1_MOUSE	Q9D8S9	C126	ENPQLDISPPC[+57]LGGSK	HPDP
BRF2_MOUSE	Q3UAW9	C362	RASPTPLPPC[+329]MLKPPKR	IodoTMT6
CA123_MOUSE	Q8BHG2	C102	TIVEFEC[+57]R	HPDP
CACL1_MOUSE	Q8R0X2	C370	AGDELAYNPSAC[+57]ASSR	HPDP
CALR_MOUSE	P14211	C105	HEQNIDC[+57]GGGYVK	HPDP
CALR_MOUSE	P14211	C137	DMHGDSEYNIMFGPDIC[+329]GPGTKK	IodoTMT6
CALR_MOUSE	P14211	C137	DMHGDSEYNIMFGPDIC[+329]GPGTK	IodoTMT6
CAND2_MOUSE	Q6ZQ73	C1138	LATLC[+329]PAPVLQRVDRLEPLR	IodoTMT6

CAP1_MOUSE	P40124	C426	NSLDC[+57]EIVSAK	HPDP
CAPZB_MOUSE	P47757	C62	DYLLC[+57]DYNR	HPDP
CARL1_MOUSE	Q6EDY6	C712	AC[+57]GGDAIQEDLK	HPDP
CASP6_MOUSE	O08738	C259	QVPC[+329]FASM[+16]LTKKLHFCPKPSK	IodoTMT6
CATA_MOUSE	P24270	C232	LVNADGEAVYC[+57]K	HPDP
CATA_MOUSE	P24270	C425	SALEHSVQC[+57]AVDVK	HPDP
CATA_MOUSE	P24270	C393	DGPMC[+329]MHDNQGGAPNYYPNSFSAPEQQR	IodoTMT6
CATB_MOUSE	P10605	C211	SC[+57]EAGYSPSYK	HPDP
CATB_MOUSE	P10605	C211	SC[+329]EAGYSPSYKEDK	IodoTMT6
CATB_MOUSE	P10605	C211	SC[+329]EAGYSPSYK	IodoTMT6
CATZ_MOUSE	Q9WUU7	C156	HGIPDETC[+329]NNYQAK	IodoTMT6
CBX3_MOUSE	P23198	C177	LTWHSC[+57]PEDEAQ	HPDP
CDC23_MOUSE	Q8BGZ4	C532	LWDEASTC[+57]AQK	HPDP
CDC42_MOUSE	P60766	C157	YVEC[+57]SALTQK	HPDP
CEAM5_MOUSE	Q3UKK2	C909	C[+57]QLSIDPVWR	HPDP
CERU_MOUSE	Q61147	C239	TFC[+57]SEPEK	HPDP
CERU_MOUSE	Q61147	C694	GTFDVEC[+57]LTTDHYTGGM[+16]K	HPDP
CERU_MOUSE	Q61147	C694	GTFDVEC[+57]LTTDHYTGGMK	HPDP
CERU_MOUSE	Q61147	C713	YTVNQC[+57]QR	HPDP
CERU_MOUSE	Q61147	C173	ADDKVLPGQQYVYVLHANEPSPGEGDSNC[+329]VTR	IodoTMT6
CERU_MOUSE	Q61147	C173	VLPGQQYVYVLHANEPSPGEGDSNC[+329]VTR	IodoTMT6
CERU_MOUSE	Q61147	C239	TFC[+329]SEPEK	IodoTMT6
CERU_MOUSE	Q61147	C239	TFC[+329]SEPEKVDKDNEDFQESNR	IodoTMT6
CERU_MOUSE	Q61147	C694	GTFDVEC[+329]LTTDHYTGGMK	IodoTMT6
CERU_MOUSE	Q61147	C713	YTVNQC[+329]QR	IodoTMT6
CH082_MOUSE	Q8VE95	C132	LSYC[+57]GGGEALAIPEPAR	HPDP
CHPT1_MOUSE	Q8C025	C386	TSC[+57]QQAPEQVYK	HPDP
CHRD1_MOUSE	Q9D1P4	C211	RKTSDFNTFLAQEGC[+329]TR	IodoTMT6
CHRD1_MOUSE	Q9D1P4	C211	KTSDFNFTFLAQEGC[+329]TR	IodoTMT6
CHRD1_MOUSE	Q9D1P4	C211	TSDFNFTFLAQEGC[+329]TR	IodoTMT6
CK5P3_MOUSE	Q99LM2	C136	C[+57]QQLQQEYSR	HPDP
CKAP4_MOUSE	Q8BMK4	C79	SSAATANASSASC[+57]SR	HPDP

CKAP4_MOUSE	Q8BMK4	C79	SSAATANASSASC[+329]SR	IodoTMT6
CKLF7_MOUSE	Q9ESD6	C54	VAQMVTLLIAFIC[+329]VR	IodoTMT6
CLCB_MOUSE	Q6IRU5	C199	VAQLC[+57]DFNPK	HPDP
CLH1_MOUSE	Q68FD5	C1266	EVC[+125]FAC[+57]VDGK	HPDP
CLH1_MOUSE	Q68FD5	C1102	C[+329]NEPAVWSQLAK	IodoTMT6
CLIC1_MOUSE	Q9Z1Q5	C223	EEFASTC[+57]PDDEEIELAYEQVAR	HPDP
CMTR1_MOUSE	Q9DBC3	C503	SNESYC[+57]SLQIK	HPDP
CMTR1_MOUSE	Q9DBC3	C534	EC[+57]LQLWK	HPDP
CNBP_MOUSE	P53996	C120	C[+57]YSC[+125]GEFGHIQK	HPDP
CNBP_MOUSE	P53996	C141	C[+57]GETGHVAINC[+125]SK	HPDP
CNBP_MOUSE	P53996	C141, C151	C[+57]GETGHVAINC[+57]SK	HPDP
CNBP_MOUSE	P53996	C157	C[+125]GETGHVAINC[+57]SK	HPDP
CNBP_MOUSE	P53996	C159	TSEVNC[+57]YR	HPDP
CNBP_MOUSE	P53996	C162	C[+57]GESGHLAR	HPDP
CNDP2_MOUSE	Q9D1A2	C300	DVGAETLLHSC[+57]K	HPDP
CNDP2_MOUSE	Q9D1A2	C300	DVGAETLLHSC[+57]KK	HPDP
CNN2_MOUSE	Q08093	C164	AGQC[+57]VIGLQM[+16]GTNK	HPDP
CNN2_MOUSE	Q08093	C164	AGQC[+57]VIGLQMGTNK	HPDP
CNN2_MOUSE	Q08093	C215	C[+57]ASQVGM[+16]TAPGTR	HPDP
CO3_MOUSE	P01027	C559	DSC[+57]IGTLVVK	HPDP
CO4A1_MOUSE	P02463	C1460	HSQTTDDPLC[+329]PPGTK	IodoTMT6
CO4A1_MOUSE	P02463	C1493	AHGQDLGTAGSC[+329]LR	IodoTMT6
CO4A2_MOUSE	P08122	C1532	AHNQDLGLAGSC[+329]LAR	IodoTMT6
COAC_MOUSE	Q8BZB2	C7	APC[+57]PAAVPSEER	HPDP
COF1_MOUSE	P18760	C39	AVLFC[+57]LSEDK	HPDP
COF1_MOUSE	P18760	C39	AVLFC[+57]LSEDKK	HPDP
COPB2_MOUSE	O55029	C56	TFEVC[+57]DLPVR	HPDP
COPB2_MOUSE	O55029	C351	DMGSC[+329]EIYPQTIQHNPNGR	IodoTMT6
COR1A_MOUSE	O89053	C24	ADQC[+57]YEDVR	HPDP
COR1B_MOUSE	Q9WUM3	C25	NDQC[+57]YEDIR	HPDP
COR1C_MOUSE	Q9WUM4	C190	NGSLIC[+57]TASK	HPDP
COR1C_MOUSE	Q9WUM4	C424	KSELSC[+57]APK	HPDP

CPNE1_MOUSE	Q8C166	C52	NC[+57]SSPEFSK	HPDP
CPNS1_MOUSE	O88456	C145	TDGFGIDTC[+57]R	HPDP
CPSF1_MOUSE	Q9EPU4	C1042	VYAVATSTNTPC[+57]TR	HPDP
CPSM_MOUSE	Q8C196	C225	VVAVDC[+57]GIK	HPDP
CPZIP_MOUSE	Q3UZA1	C244	NTC[+57]NSTEKPEELVR	HPDP
CRIP2_MOUSE	Q9DCT8	C126	ASSVTFTGEPNMC[+329]PR	IodoTMT6
CSDE1_MOUSE	Q91W50	C129	SPAAPGQSPTGSVC[+57]YER	HPDP
CSK22_MOUSE	O54833	C336	EQSQPC[+57]AENTVLSSGLTAAR	HPDP
CSRP1_MOUSE	P97315	C122	C[+57]SQAVYAAEK	HPDP
CSRP1_MOUSE	P97315	C167	GLESTTLADKDGEIYC[+329]K	IodoTMT6
CSRP1_MOUSE	P97315	C167	C[+125]GKGLESTTLADKDGEIYC[+329]K	IodoTMT6
CSRP1_MOUSE	P97315	C58	KNLDSTTVAVHGEEIYC[+329]K	IodoTMT6
CSRP1_MOUSE	P97315	C58	NLDSTTVAVHGEEIYC[+329]K	IodoTMT6
CSRP2_MOUSE	P97314	C167	EGEIYC[+57]K	HPDP
CSRP2_MOUSE	P97314	C167	SLESTTLTEKEGEIYC[+57]K	HPDP
CSRP2_MOUSE	P97314	C167	SLESTTLTEKEGEIYC[+329]K	IodoTMT6
CSRP2_MOUSE	P97314	C58	NLDSTTVAIHDEEIYC[+329]K	IodoTMT6
CTBP2_MOUSE	P56546	C18	LDRIC[+329]EGIRPQIM[+16]NGPLHPRPLVALLDGRDC[+125]T	IodoTMT6
CTCF_MOUSE	Q61164	C472	YC[+329]DAVFER	IodoTMT6
CTL2_MOUSE	Q8BY89	C401	VVDDTAC[+57]PLLR	HPDP
CTL2A_MOUSE	P12399	C103	TNC[+57]YGNSLNR	HPDP
CTNA1_MOUSE	P26231	C116	SAAGEFADDPC[+57]SSVK	HPDP
CTNA1_MOUSE	P26231	C116	SAAGEFADDPC[+329]SSVK	IodoTMT6
CTNA1_MOUSE	P26231	C116	SAAGEFADDPC[+329]SSVKR	IodoTMT6
CUBN_MOUSE	Q9JLB4	C1466	IAQLC[+57]SR	HPDP
CUBN_MOUSE	Q9JLB4	C1510	AVPGGC[+57]GGIFQVSR	HPDP
CUBN_MOUSE	Q9JLB4	C1927	LIGTYC[+57]GTQR	HPDP
CUBN_MOUSE	Q9JLB4	C2054	LSQQLAVLC[+57]GR	HPDP
CUBN_MOUSE	Q9JLB4	C817	ADYQVAC[+57]GGELR	HPDP
CUL4B_MOUSE	A2A432	C74	SVC[+57]PGTSGFSSPNPSAASAAAQEV	HPDP
CXA1_MOUSE	P23242	C260	SDPYHATTGPLSPSKDC[+329]GSPK	IodoTMT6
CY24B_MOUSE	Q61093	C126	NLTFHKM[+16]VAWMIALHTAIHTIAHLFNVEWC[+329]VNAR	IodoTMT6

CYFP1_MOUSE	Q7TMB8	C428	DC[+57]PDNAEEYER	HPDP
D19L4_MOUSE	A2AJQ3	C355	VFEFYLLC[+329]TLPVTLNLIVK	IodoTMT6
DAPK2_MOUSE	Q8VDF3	C347	NC[+57]ESDTEENIAR	HPDP
DCAF6_MOUSE	Q9DC22	C200,C211	DDILINC[+125]RRAATSVAIC[+329]PPVPYYLAVGC[+329]SDS	IodoTMT6
DCSTP_MOUSE	Q7TNJ0	C89	RARC[+57]FILLAVLSC[+329]GLR	IodoTMT6
DD19A_MOUSE	Q61655	C392	VLVTTNVC[+57]AR	HPDP
DDX1_MOUSE	Q91VR5	C571	FLIC[+57]TDVAAR	HPDP
DDX6_MOUSE	P54823	C390	NLVC[+57]TDLFTR	HPDP
DEN4C_MOUSE	A6H8H2	C1083	ILTAALTC[+57]PK	HPDP
DESM_MOUSE	P31001	C332	HQIQSYTC[+329]EIDALK	IodoTMT6
DESM_MOUSE	P31001	C332	HQIQSYTC[+329]EIDALKGTNDSLMR	IodoTMT6
DHE3_MOUSE	P26443	C327	C[+329]VGVGESDGSIWNPDGIDPK	IodoTMT6
DHPR_MOUSE	Q8BVI4	C82	VDAILC[+57]VAGGWAGGNAK	HPDP
DHRS1_MOUSE	Q99L04	C10	GQVC[+57]VVTGASR	HPDP
DHSO_MOUSE	Q64442	C106	EVDEYC[+57]K	HPDP
DHX36_MOUSE	Q8VHK9	C277	AESC[+57]GNGNSTGYQIR	HPDP
DHX9_MOUSE	O70133	C440	AAEC[+57]NIVVTQPR	HPDP
DI3L2_MOUSE	Q8CI75	C376	DC[+57]IFTIDPSTAR	HPDP
DIAC_MOUSE	Q8R242	C342	GIGMWNANC[+329]LDYSDDALAR	IodoTMT6
DIAP1_MOUSE	O08808	C1210	AGC[+57]AVTSLLELTK	HPDP
DICER_MOUSE	Q8R418	C306	QILSDC[+329]RAVLVVLGPWC[+57]ADKVAGM[+16]M[+16]V	IodoTMT6
DLGP4_MOUSE	B1AZP2	C726	DTSDSQDANDSSC[+329]K	IodoTMT6
DNJA2_MOUSE	Q9QYJ0	C308	VIEPGC[+57]VR	HPDP
DNJB6_MOUSE	O54946	C243	SLTINGVADENALAEEC[+329]QR	IodoTMT6
DNPEP_MOUSE	Q9Z2W0	C411	NDSPC[+57]GTTIGPILASR	HPDP
DOPD_MOUSE	O35215	C57	STEPC[+329]AHLVSSIGVVGTAEQNR	IodoTMT6
DP13A_MOUSE	Q8K3H0	C615	IC[+57]DSVGLAK	HPDP
DPM3_MOUSE	Q9D1Q4	C67	VATFHDC[+57]EDAAR	HPDP
DPYL2_MOUSE	O08553	C248	SITIANQTNC[+57]PLYVTK	HPDP
DPYL2_MOUSE	O08553	C248	SITIANQTNC[+329]PLYVTK	IodoTMT6
DPYL2_MOUSE	O08553	C248	SITIANQTNC[+329]PLYVTKVMSK	IodoTMT6
DPYL2_MOUSE	O08553	C439	THNSALEYNIFEGM[+16]EC[+329]R	IodoTMT6

DPYL2_MOUSE	O08553	C439	THNSALEYNIFEGMEC[+329]R	IodoTMT6
DSCR3_MOUSE	O35075	C243	DATEIQNIQIADGDIC[+57]R	HPDP
DYHC1_MOUSE	Q9JHU4	C631	VQYPQSQAC[+57]K	HPDP
DYN2_MOUSE	P39054	C607	QIELAC[+57]DSQEDVDSWK	HPDP
ECM2_MOUSE	Q5FW85	C8	LAVLFC[+329]FILLIVLQTDC[+125]ERGTR	IodoTMT6
EDC3_MOUSE	Q8K2D3	C137	SQDVAISPQQQQC[+57]SK	HPDP
EF1D_MOUSE	P57776	C217	SSILLDVKPWDDTDMAQLETC[+329]VR	IodoTMT6
EF2_MOUSE	P58252	C369	C[+57]JELLYEGPPDDEAAMGIK	HPDP
EF2_MOUSE	P58252	C591	ETVSEESNVLC[+57]LSK	HPDP
EF2_MOUSE	P58252	C693	EGALC[+57]EENMR	HPDP
EF2_MOUSE	P58252	C693	EGALC[+57]EENM[+16]R	HPDP
EF2_MOUSE	P58252	C591	ETVSEESNVLC[+329]LSK	IodoTMT6
EF2_MOUSE	P58252	C728	C[+329]LYASVLTAQPR	IodoTMT6
EFTU_MOUSE	Q8BFR5	C290	KGDEC[+57]ELLGHNK	HPDP
EIF3A_MOUSE	P23116	C478	HC[+57]DLQVR	HPDP
EIF3F_MOUSE	Q9DCH4	C260	TC[+57]FSPNR	HPDP
ELMD2_MOUSE	Q8BGF6	C98	TC[+57]LLQITGYK	HPDP
EMAL3_MOUSE	Q8VC03	C421	DSSC[+57]IVTSGK	HPDP
ENOA_MOUSE	P17182	C337, C339	SC[+57]NC[+57]LLLK	HPDP
ENOA_MOUSE	P17182	C357	VNQIGSVTESLQAC[+57]K	HPDP
EPN3_MOUSE	Q91W69	C461	SPSTVELDPFGDSSPSC[+329]K	IodoTMT6
ERP44_MOUSE	Q9D1Q6	C92	VDC[+57]DQHSDIAQR	HPDP
ES8L2_MOUSE	Q99K30	C546	SGQAGYVPC[+57]NILAEAR	HPDP
ESTD_MOUSE	Q9R0P3	C206	AYDATC[+57]LVK	HPDP
ETHE1_MOUSE	Q9DCM0	C170	TDFQQGC[+57]AK	HPDP
ETHE1_MOUSE	Q9DCM0	C34	SC[+57]TYTYLLGDR	HPDP
EVI5_MOUSE	P97366	C479	LSEAESQC[+57]ALK	HPDP
EXOC8_MOUSE	Q6PGF7	C419	AC[+57]ELFLR	HPDP
F16P1_MOUSE	Q9QXD6	C93	SSYATC[+57]VLVSEENTNAIIIPEK	HPDP
F19A2_MOUSE	Q7TPG7	C107	WWCHMQPC[+57]LEGEEC[+329]KVLPR	IodoTMT6
F19A2_MOUSE	Q7TPG7	C96	WWC[+329]HMQPC[+57]LEGEECKVLPR	IodoTMT6
FA98B_MOUSE	Q80VD1	C52	AAEGGLSSPEFSELC[+329]IWLGSQIK	IodoTMT6

FABP4_MOUSE	P04117	C118	LVVEC[+57]VMK	HPDP
FABP4_MOUSE	P04117	C118	LVVEC[+57]VM[+16]K	HPDP
FABP4_MOUSE	P04117	C118	DGDKLVVEC[+57]VMK	HPDP
FABP4_MOUSE	P04117	C118	DGDKLVVEC[+329]VMK	IodoTMT6
FABP4_MOUSE	P04117	C118	LVVEC[+329]VMK	IodoTMT6
FABPL_MOUSE	P12710	C69	NEFTLGEEC[+57]ELETMTGEEK	HPDP
FABPL_MOUSE	P12710	C69	NEFTLGEEC[+57]ELETM[+16]TGEK	HPDP
FAK1_MOUSE	P34152	C597	NVLVSSNDC[+57]VK	HPDP
FARP1_MOUSE	F8VPU2	C524	QASPLISPLLNDQAC[+57]PR	HPDP
FAS_MOUSE	P19096	C1181	LLAAAC[+57]QLQLNGNLQLELGEALAQER	HPDP
FAS_MOUSE	P19096	C223	SFDDSGSGYC[+57]R	HPDP
FBN1_MOUSE	Q61554	C1960	C[+57]NEGYEVAPDGR	HPDP
FBN1_MOUSE	Q61554	C1099	GQCVNTPGDFEC[+57]KC[+329]DEGYESGFMM[+16]M[+16]K	IodoTMT6
FBN1_MOUSE	Q61554	C1960	C[+329]NEGYEVAPDGR	IodoTMT6
FERM2_MOUSE	Q8CIB5	C426	GC[+57]EVTPDVNISGQK	HPDP
FETA_MOUSE	P02772	C144	TAPASVPPFQFPEPAESC[+329]K	IodoTMT6
FETUA_MOUSE	P29699	C336	VGQPGAAGPVSPMC[+329]PGR	IodoTMT6
FGF5_MOUSE	P15656	C200	GC[+329]SPRVKPKQHVSTHFLPR	IodoTMT6
FHL1_MOUSE	P97447	C255	C[+57]SVNLANKR	HPDP
FHL2_MOUSE	O70433	C71	C[+57]GSSLVDKPFPAK	HPDP
FHL5_MOUSE	Q9WTX7	C222,C225	KC[+329]AAC[+329]TKPITGLRGAK	IodoTMT6
FHOD1_MOUSE	Q6P9Q4	C539	AEPIQEPPTC[+57]VPK	HPDP
FINC_MOUSE	P11276	C136	ISC[+57]TIANR	HPDP
FINC_MOUSE	P11276	C232	C[+57]NDQDTR	HPDP
FKBP5_MOUSE	Q64378	C215	EEQC[+57]ILYLGPR	HPDP
FLII_MOUSE	Q9JJ28	C1069	TNGSALC[+57]TR	HPDP
FLII_MOUSE	Q9JJ28	C560	AC[+57]SAIHAVNLR	HPDP
FLII_MOUSE	Q9JJ28	C576	NYLGAEC[+57]R	HPDP
FLNA_MOUSE	Q8BTM8	C1157	AHVAPC[+57]FDASK	HPDP
FLNA_MOUSE	Q8BTM8	C1453	C[+57]SGPGLSPGMVR	HPDP
FLNA_MOUSE	Q8BTM8	C2102	VDINTEDLEDGTC[+57]R	HPDP
FLNA_MOUSE	Q8BTM8	C2582	SNFTVDC[+57]SK	HPDP

FLNA_MOUSE	Q8BTM8	C2601	TPC[+57]EEILVK	HPDP
FLNA_MOUSE	Q8BTM8	C8	C[+57]GQSAAVASPGGSIDSR	HPDP
FLNA_MOUSE	Q8BTM8	C1312	VANPSGNLTDITYVQDC[+329]GDGTYK	IodoTMT6
FLNA_MOUSE	Q8BTM8	C2102	VDINTEDLEDGTC[+329]R	IodoTMT6
FLNA_MOUSE	Q8BTM8	C2102	DAGYGGLSLSIEGPSKVDINTEDLEDGTC[+329]R	IodoTMT6
FLNA_MOUSE	Q8BTM8	C2293	DGSC[+329]GVAYVVQEPGDYEVSVK	IodoTMT6
FLNA_MOUSE	Q8BTM8	C2476	MDC[+329]QEC[+125]PEGYR	IodoTMT6
FLNA_MOUSE	Q8BTM8	C8	C[+329]GQSAAVASPGGSIDSR	IodoTMT6
FLNB_MOUSE	Q80X90	C1280	AQITNPSGASTEC[+57]FVK	HPDP
FLNB_MOUSE	Q80X90	C1326	VAVTEGC[+57]QPSR	HPDP
FLNB_MOUSE	Q80X90	C1434	IAGPGLSSC[+57]VR	HPDP
FLNB_MOUSE	Q80X90	C1868	AEISC[+57]IDNK	HPDP
FLNB_MOUSE	Q80X90	C1876	DGTC[+57]TVTYLPTLPGDYSILVK	HPDP
FLNB_MOUSE	Q80X90	C2057	VDIQTEDLEDGTC[+57]K	HPDP
FLNB_MOUSE	Q80X90	C2537	SSFLVDC[+57]SK	HPDP
FLNB_MOUSE	Q80X90	C450, C455	SPFGVQIGEAC[+57]NPNAC[+57]R	HPDP
FLNB_MOUSE	Q80X90	C604	IEYDDQNDGSC[+57]DVK	HPDP
FLNB_MOUSE	Q80X90	C660	SGC[+57]TINNPAEFIVDPK	HPDP
FLNB_MOUSE	Q80X90	C991	VVPC[+57]LVAPVAGR	HPDP
FLNB_MOUSE	Q80X90	C991	KVVPC[+57]LVAPVAGR	HPDP
FLNB_MOUSE	Q80X90	C2057	VDIQTEDLEDGTC[+329]K	IodoTMT6
FLNB_MOUSE	Q80X90	C2057	DAGYGGISLAVEGPSKVDIQTEDLEDGTC[+329]K	IodoTMT6
FLNB_MOUSE	Q80X90	C2248	NGSC[+329]GVSYIAQEPGNYEVSIG	IodoTMT6
FLNB_MOUSE	Q80X90	C2333	VHSPSGAVEEC[+329]HVSELEPDKYAVR	IodoTMT6
FLNB_MOUSE	Q80X90	C2431	MDC[+329]QEIPEGYK	IodoTMT6
FLNB_MOUSE	Q80X90	C2537	SSFLVDC[+329]SK	IodoTMT6
FLNB_MOUSE	Q80X90	C450	SPFGVQIGEAC[+329]NPNAC[+125]R	IodoTMT6
FLNB_MOUSE	Q80X90	C455	SPFGVQIGEAC[+125]NPNAC[+329]R	IodoTMT6
FLNB_MOUSE	Q80X90	C660	SGC[+329]TINNPAEFIVDPK	IodoTMT6
FLNB_MOUSE	Q80X90	C769	ANEPHFTVDC[+329]TEAGEGDVSVGIK	IodoTMT6
FLNB_MOUSE	Q80X90	C769	SGLKANEPHFTVDC[+329]TEAGEGDVSVGIK	IodoTMT6
FLNB_MOUSE	Q8VHX6	C1104	GAGTGGLGLTVEGPC[+329]EAK	IodoTMT6

FLNC_MOUSE	Q8VHX6	C2661	NSFTVDC[+57]SK	HPDP
FLNC_MOUSE	Q8VHX6	C2680	TPC[+329]EEVYVK	IodoTMT6
FN3C1_MOUSE	Q6DFV6	C1112	TKPLPPEPQLNC[+329]VVYGHQSLR	IodoTMT6
FRPD1_MOUSE	A2AKB4	C1360	AYSC[+57]TTPLSR	HPDP
FSCN1_MOUSE	Q61553	C481	AC[+57]AETIDPASLWEY	HPDP
FSCN1_MOUSE	Q61553	C89	EVPDGDC[+57]R	HPDP
FUMH_MOUSE	P97807	C431	LLGDASVSFTDNC[+57]VVGIQANTER	HPDP
FUT10_MOUSE	Q5F2L2	C13	LLASC[+329]LCVTATVFLM[+16]VTLQVVVELGKFER	IodoTMT6
FXL20_MOUSE	Q9CZV8	C283	C[+57]SQLTDVGFTTLAR	HPDP
FXR1_MOUSE	Q61584	C77	ANDQEPC[+57]GWWLAK	HPDP
FXR2_MOUSE	Q9WVR4	C282	IYGETPEAC[+57]R	HPDP
G3P_MOUSE	P16858	C150	IVSNASC[+57]TTNC[+125]LAPLAK	HPDP
G3P_MOUSE	P16858	C150, C154	IVSNASC[+57]TTNC[+57]LAPLAK	HPDP
G3P_MOUSE	P16858	C160	IVSNASC[+125]TTNC[+57]LAPLAK	HPDP
GAB1_MOUSE	Q9QYY0	C406	DASSQDC[+57]YDIPR	HPDP
GALK1_MOUSE	Q9R0N0	C243	QC[+57]EEVAQALGK	HPDP
GALT_MOUSE	Q03249	C75	HDPLNPLC[+57]PGATR	HPDP
GATM_MOUSE	Q9D964	C87	AENAC[+57]VPPFTVEVK	HPDP
GATM_MOUSE	Q9D964	C64	DC[+329]PVSSYNEWDPLEEVIVGR	IodoTMT6
GATM_MOUSE	Q9D964	C87	AENAC[+329]VPPFTVEVK	IodoTMT6
GBB1_MOUSE	P62874	C25	AC[+57]ADATLSQITNNIDPVGR	HPDP
GBB1_MOUSE	P62874	C25	KAC[+57]ADATLSQITNNIDPVGR	HPDP
GCNT1_MOUSE	Q09324	C100	DC[+57]ASFIR	HPDP
GFPT1_MOUSE	P47856	C262	VDSTTC[+57]LFPVEEK	HPDP
GFPT1_MOUSE	Q9Z2Z9	C461	ETDC[+329]GVHINAGPEIGVASTK	IodoTMT6
GIMA4_MOUSE	Q99JY3	C61	VFNSGIC[+57]AK	HPDP
GLNA_MOUSE	P15105	C183	AC[+57]LYAGVK	HPDP
GLNA_MOUSE	P15105	C49	TLDC[+57]EPK	HPDP
GLOD4_MOUSE	Q9CPV4	C45	AAC[+57]NGPYDGG	HPDP
GMPR1_MOUSE	Q9DCZ1	C186	VGVGPGSVC[+57]TTR	HPDP
GON7_MOUSE	P0C8B4	C21	VSC[+57]EASGDADPLQSLSAGVVR	HPDP
GORS2_MOUSE	Q99JX3	C434	VSDC[+57]TPAVEKPVSDADASEPS	HPDP

GP126_MOUSE	Q6F3F9	C38	C[+125]C[+57]PWRLKPSALLFLFVLC[+57]VTCVPLSVC[+125]C	IodoTMT6
GP142_MOUSE	Q7TQN9	C233	LLKWAHCLIVYFIPC[+329]NVFLVTNSAILR	IodoTMT6
GPD1L_MOUSE	Q3ULJ0	C216	NIVAVGAGFC[+57]DGLR	HPDP
GPX41_MOUSE	O70325	C195	YGPMEEPQVIEKDLPC[+329]YL	IodoTMT6
GRAP1_MOUSE	Q8VD04	C104	LC[+57]SQLEQLELENR	HPDP
GRB10_MOUSE	Q60760	C173	NQC[+329]PTDTVNPVAR	IodoTMT6
GRM1B_MOUSE	Q80TI0	C20	STPAC[+57]SPILR	HPDP
GRP75_MOUSE	P38647	C66	GAVVGIDLGTNSC[+57]VAVMEGK	HPDP
GRP78_MOUSE	P20029	C42	KEDVGTVVGIDLGTTYSC[+57]VGVFK	HPDP
GRP78_MOUSE	P20029	C42	EDVGTVVGIDLGTTYSC[+57]VGVFK	HPDP
GSHR_MOUSE	P47791	C256	NFDSLSSNC[+57]TEELENAGVEVLK	HPDP
GSHR_MOUSE	P47791	C85	AAVVESHKLGTC[+125]VNVGC[+329]VPK	IodoTMT6
GSHR_MOUSE	P47791	C85	LGGTC[+125]VNVGC[+329]VPK	IodoTMT6
GSTK1_MOUSE	Q9DCM2	C176	LIENTDAAC[+57]K	HPDP
HA1K_MOUSE	P14428	C317	GGDYALAPGSQTSDLSPDC[+329]K	IodoTMT6
HDAC1_MOUSE	O09106	C408	ISIC[+57]SSDKR	HPDP
HEMO_MOUSE	Q91X72	C458	SLPQPQKVNSILGC[+57]SQ	HPDP
HEMO_MOUSE	Q91X72	C458	VNSILGC[+57]SQ	HPDP
HEMO_MOUSE	Q91X72	C364	ELGSPPGISLETIDAAFSC[+329]PGSSR	IodoTMT6
HEMO_MOUSE	Q91X72	C458	SLPQPQKVNSILGC[+329]SQ	IodoTMT6
HEMO_MOUSE	Q91X72	C458	VNSILGC[+329]SQ	IodoTMT6
HIF1N_MOUSE	Q8BLR9	C236	RC[+125]ILFPPDQFEC[+57]LYPYPVHHPC[+329]DR	IodoTMT6
HIF1N_MOUSE	Q8BLR9	C236	RC[+125]ILFPPDQFEC[+57]LYPYPVHHPC[+329]DR	IodoTMT6
HMCS2_MOUSE	P54869	C96, C106	MGFC[+57]SVQEDINSLC[+57]LTVVQR	HPDP
HNRL1_MOUSE	Q8VDM6	C533	KAIVIC[+329]PTDEDLKDR	IodoTMT6
HNRL1_MOUSE	Q8VDM6	C533	AIVIC[+329]PTDEDLKDR	IodoTMT6
HNRPD_MOUSE	Q60668	C126	FGEVVDC[+57]TLK	HPDP
HNRPL_MOUSE	Q8R081	C578	LC[+57]FSTAQHAS	HPDP
HNRPQ_MOUSE	Q7TMK9	C289	GFC[+57]FLEYEDHK	HPDP
HNRPU_MOUSE	Q8VEK3	C583	KAVVVC[+57]PK	HPDP
HNRPU_MOUSE	Q8VEK3	C583	AVVVC[+57]PKDEDYK	HPDP
HPRT_MOUSE	P00493	C106	SYC[+57]NDQSTGDIK	HPDP

HPRT_MOUSE	P00493	C206	DLNHVC[+57]VISETGK	HPDP
HPS6_MOUSE	Q8BLY7	C180	TLETSGEAGTKLGC[+329]THILLHHCPLFGLIASR	IodoTMT6
HPS6_MOUSE	Q8BLY7	C692	LLLAFAQHRRLDAHLPLLC[+329]R	IodoTMT6
HSP72_MOUSE	P17156	C606	VC[+57]NPIISK	HPDP
HSP74_MOUSE	Q61316	C167	SVMDATQIAGLNC[+329]LR	IodoTMT6
HSP7C_MOUSE	P63017	C17	GPAVGIDLGTTYSC[+57]VGVFQHGK	HPDP
HSP7C_MOUSE	P63017	C603	VC[+57]NPIITK	HPDP
HXK2_MOUSE	O08528	C375	IC[+57]QIVSTR	HPDP
I17RB_MOUSE	Q9JIP3	C12	MLLVLLILAASC[+329]RSALPR	IodoTMT6
ICAL_MOUSE	P51125	C408	C[+329]GEDEDTVPAEYR	IodoTMT6
IDHC_MOUSE	O88844	C73	C[+57]ATITPDEK	HPDP
IF2G_MOUSE	Q9Z0N1	C105	SC[+57]GSSTPDEFPTDIPGTK	HPDP
IF2G_MOUSE	Q9Z0N1	C105	SC[+329]GSSTPDEFPTDIPGTK	IodoTMT6
IF4B_MOUSE	Q8BGD9	C543	VDVVGATQGQAGSC[+57]SR	HPDP
IF4B_MOUSE	Q8BGD9	C543	DGNKVDVVGATQGQAGSC[+57]SR	HPDP
IF5_MOUSE	P59325	C122	KQTIGNSC[+329]K	IodoTMT6
IGHM_MOUSE	P01872	C453	STGKPTLYNVSLIM[+16]SDTGGTC[+329]Y	IodoTMT6
IGHM_MOUSE	P01872	C453	STGKPTLYNVSLIMSDTGGTC[+329]Y	IodoTMT6
IGHM_MOUSE	P01872	C88	SILEGSDEYLC[+329]K	IodoTMT6
IGKC_MOUSE	P01837	C106	SFNRNEC[+57]	HPDP
IGKC_MOUSE	P01837	C86	HNSYTC[+57]EATHK	HPDP
IL19_MOUSE	Q8CJ70	C5,C18	KTQC[+329]ASTWLLGM[+16]TLILC[+329]SVHIYSLRR	IodoTMT6
INADL_MOUSE	Q63ZW7	C1406	ESESPDSAAC[+57]QIK	HPDP
INLR1_MOUSE	Q8CGK5	C81	TGWRPVEHCAGIKALVC[+329]PLMCLKK	IodoTMT6
INSM1_MOUSE	Q63ZV0	C482	GAQERHLRLLHAAQVFPC[+329]K	IodoTMT6
IRGQ_MOUSE	Q8VIM9	C370	AGIGDSGC[+57]TAAR	HPDP
KBL_MOUSE	O88986	C26	C[+57]ILDSELEGIR	HPDP
KBTBD_MOUSE	Q8C828	C337	GRLFVCLWRPADITAVVEYVVQMDKWLPVAELC[+329]R	IodoTMT6
KCY_MOUSE	Q9DBP5	C20	KPLVVFVLGGPGAGKGTQC[+329]AR	IodoTMT6
KINH_MOUSE	Q61768	C632	ELAAC[+57]QLR	HPDP
KNG1_MOUSE	O08677	C339	ESNTELAEDC[+57]EIK	HPDP
KNG1_MOUSE	O08677	C125	ENEFFIVTQTC[+329]K	IodoTMT6

KNG1_MOUSE	O08677	C369	C[+329]QALDMTEMAR	IodoTMT6
KPCI_MOUSE	Q62074	C190	LVTIEC[+57]GR	HPDP
KPYM_MOUSE	P52480	C423, C424	C[+57]C[+57]SGAIIVLTK	HPDP
KPYM_MOUSE	P52480	C49	NTGIIC[+57]TIGPASR	HPDP
KPYM_MOUSE	P52480	C423	C[+329]C[+125]SGAIIVLTK	IodoTMT6
KPYM_MOUSE	P52480	C423	C[+329]C[+125]SGAIIVLTKSGR	IodoTMT6
KPYM_MOUSE	P52480	C424	C[+125]C[+329]SGAIIVLTK	IodoTMT6
KPYM_MOUSE	P52480	C49	NTGIIC[+329]TIGPASR	IodoTMT6
KPYR_MOUSE	P53657	C360,C369	VFLAQKMMIGRC[+329]NLAGKPVVC[+329]ATQMLESMTK	IodoTMT6
KT3K_MOUSE	Q8K274	C11	ELGC[+57]SSVK	HPDP
LAC3_MOUSE	P01844	C103	SLSPAEC[+329]L	IodoTMT6
LAMA5_MOUSE	Q61001	C69	ITASATC[+57]GEEAPTR	HPDP
LAMA5_MOUSE	Q61001	C69	ITASATC[+329]GEEAPTR	IodoTMT6
LAMB1_MOUSE	P02469	C643	C[+329]GNTVPDDDNQVVSLSPGSR	IodoTMT6
LAMC1_MOUSE	P02468	C349	SQEC[+329]YFDPELYR	IodoTMT6
LAS1L_MOUSE	A2BE28	C488	VC[+57]SIYTQNGENGLAK	HPDP
LAT2_MOUSE	Q9QXW9	C209	LLALALIIM[+16]GIVQIC[+329]K	IodoTMT6
LAT4_MOUSE	Q8CGA3	C295	LC[+57]LSTVDLEVK	HPDP
LCAP_MOUSE	Q8C129	C305	SAFPC[+57]FDEPAFK	HPDP
LDHA_MOUSE	P06151	C35	ITVVGVGAVGMAC[+57]AISILMK	HPDP
LDHB_MOUSE	P16125	C36	ITVVGVGQVGMAC[+57]AISILGK	HPDP
LEG2_MOUSE	Q9CQW5	C57	FDESTIVC[+57]NTSEGGR	HPDP
LEG9_MOUSE	O08573	C258	C[+57]GGDIAFHLNPR	HPDP
LIPB2_MOUSE	O35711	C398	C[+57]VDGNQLSPVGEPK	HPDP
LKHA4_MOUSE	P24527	C147	AILPC[+57]QDTPSVK	HPDP
LKHA4_MOUSE	P24527	C147	AILPC[+329]QDTPSVK	IodoTMT6
LKHA4_MOUSE	P24527	C17	PEVADTC[+125]SLASPASVC[+329]R	IodoTMT6
LMCD1_MOUSE	Q8VEE1	C246	EVEYVC[+125]ELC[+329]K	IodoTMT6
LMNA_MOUSE	P48678	C522	AQNTWGC[+57]GSSLR	HPDP
LMNA_MOUSE	P48678	C590, C593	TVLC[+57]GTC[+57]GQPADK	HPDP
LMNB2_MOUSE	P21619	C190	C[+57]QSLQEELAFSK	HPDP
LONP2_MOUSE	Q9DBN5	C405	IALGGVC[+57]DQSDIR	HPDP

LR16A_MOUSE	Q6EDY6	C1360	C[+329]SDSGEEAEKEFIFV	IodoTMT6
LRC47_MOUSE	Q505F5	C544	DGQC[+57]PLVVEQVR	HPDP
LRC59_MOUSE	Q922Q8	C131	VAGDC[+57]LDEK	HPDP
LRCH4_MOUSE	Q921G6	C454	AAGAGASAPSTQATC[+57]NGPPK	HPDP
LRP1B_MOUSE	Q9JI18	C1540	GPC[+329]SHLCLINHNRSAACAC[+125]PHLM[+16]KLSSDK	IodoTMT6
LRP2_MOUSE	A2ARV4	C2518	AIVLDPC[+57]R	HPDP
LRP2_MOUSE	A2ARV4	C2713	C[+57]ISQDWK	HPDP
LRP2_MOUSE	A2ARV4	C2830	C[+329]QTTNIC[+57]VPR	IodoTMT6
LSM7_MOUSE	Q9CQQ8	C76	QLGLVVC[+329]R	IodoTMT6
LSM7_MOUSE	Q9CQQ8	C76	LTEDTRQLGLVVC[+329]R	IodoTMT6
LTBP4_MOUSE	Q8K4G1	C1393,C1403	RC[+125]VSNESQSLDDNLGVC[+329]WQEVGPDLC[+329]SR	IodoTMT6
LY6C2_MOUSE	P0CW02	C53	ASDGFC[+329]IAQNIELIEDSQR	IodoTMT6
MA7D1_MOUSE	A2AJI0	C363	THPSAAVPVC[+57]PR	HPDP
MAGI3_MOUSE	Q9EQJ9	C1439	AGC[+57]TPQSSSLVK	HPDP
MAOX_MOUSE	P06801	C415	AEC[+57]SAEQC[+125]YK	HPDP
MAOX_MOUSE	P06801	C415, C420	AEC[+57]SAEQC[+57]YK	HPDP
MAOX_MOUSE	P06801	C415	AEC[+329]SAEQC[+125]YK	IodoTMT6
MAP1B_MOUSE	P14873	C1913	SPC[+329]DSGYSYETIEK	IodoTMT6
MAP2_MOUSE	O08663	C121	VQTDPPSPIC[+57]DLYPNGVFPK	HPDP
MAP4_MOUSE	P27546	C636	ETPGSQPSEPC[+57]SGVSR	HPDP
MAP4_MOUSE	P27546	C636	ETPGSQPSEPC[+329]SGVSR	IodoTMT6
MARC2_MOUSE	Q922Q1	C301	LC[+57]DPSVK	HPDP
MCEE_MOUSE	Q9D1I5	C168	DC[+57]GGVLVELEQA	HPDP
MD1L1_MOUSE	Q9WTX8	C233	LC[+57]LQEQDAAVVK	HPDP
MDHC_MOUSE	P14152	C137	KSVKVIVVGNPANTNC[+329]LTASK	IodoTMT6
MDHC_MOUSE	P14152	C137	SVKVIVVGNPANTNC[+329]LTASK	IodoTMT6
MDHC_MOUSE	P14152	C137	VIVVGNPANTNC[+329]LTASK	IodoTMT6
MDHC_MOUSE	P14152	C154	SAPSIPKENFSC[+329]LTR	IodoTMT6
MDR1A_MOUSE	P21447	C638	LVMTQTAGNEIELGNEAC[+329]K	IodoTMT6
MET7B_MOUSE	Q9DD20	C96	VTC[+57]VDPNPNFEK	HPDP
MFAP3_MOUSE	Q922T2	C241	SVPLPLLILNC[+329]RAFVEEMFEAVR	IodoTMT6
MFN1_MOUSE	Q811U4	C681	LC[+57]QQVDVTQK	HPDP

MFNG_MOUSE	O09008	C18	HC[+57]RLFRGM[+16]AGALFTLLC[+329]VGLLSLR	IodoTMT6
MICA1_MOUSE	Q8VDP3	C82	ASQPVYQQGQAC[+57]TNTK	HPDP
MPRI_MOUSE	Q07113	C1910	SYDEC[+329]VLEGR	IodoTMT6
MPRI_MOUSE	P97434	C723	EGYVLQATC[+57]ER	HPDP
MT1_MOUSE	P02802	C44	C[+329]AQGC[+125]VC[+125]K	IodoTMT6
MT1_MOUSE	P02802	C44	C[+329]AQGC[+57]VC[+57]K	IodoTMT6
MT1_MOUSE	P02802	C50	C[+125]AQGC[+125]VC[+329]K	IodoTMT6
MT1_MOUSE	P02802	C50	C[+125]AQGC[+57]VC[+329]K	IodoTMT6
MT2_MOUSE	P02798	C44, C48, C50	C[+57]SQGC[+57]IC[+57]K	HPDP
MT2_MOUSE	P02798	C54, C56	C[+125]SQGC[+57]IC[+57]K	HPDP
MT2_MOUSE	P02798	C33	SC[+329]C[+57]SC[+125]C[+57]PVGC[+57]AK	IodoTMT6
MT2_MOUSE	P02798	C33,C41	SC[+329]C[+57]SC[+125]C[+57]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C33,C41	SC[+329]C[+125]SC[+125]C[+57]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C34,C41	SC[+125]C[+329]SC[+125]C[+125]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C36,C41	SC[+57]C[+125]SC[+329]C[+57]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C37,C41	SC[+57]C[+57]SC[+125]C[+329]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C41	SC[+57]C[+57]SC[+125]C[+57]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C41	SC[+57]C[+125]SC[+57]C[+57]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C41	SC[+125]C[+57]SC[+125]C[+57]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C41	SC[+57]C[+57]SC[+125]C[+125]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C41	SC[+125]C[+125]SC[+57]C[+57]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C41	SC[+125]C[+125]SC[+125]C[+57]PVGC[+329]AK	IodoTMT6
MT2_MOUSE	P02798	C44	C[+329]SQGC[+125]IC[+125]K	IodoTMT6
MT2_MOUSE	P02798	C44	C[+329]SQGC[+57]IC[+125]K	IodoTMT6
MT2_MOUSE	P02798	C50	C[+125]SQGC[+125]IC[+329]K	IodoTMT6
MT2_MOUSE	P02798	C50	C[+125]SQGC[+57]IC[+329]K	IodoTMT6
MTCH2_MOUSE	Q791V5	C79	LC[+57]SGVLGTVVHGK	HPDP
MTMR2_MOUSE	Q9Z2D1	C95	DVTYIC[+57]PFTGAVR	HPDP
MTMR7_MOUSE	Q9Z2C9	C158	VC[+57]DSYPTELYVPR	HPDP
MTMR7_MOUSE	Q9Z2C9	C68	QATTATGC[+57]PLLIR	HPDP
MTMR9_MOUSE	Q9Z2D0	C392	C[+125]AQSAYC[+57]SSK	HPDP
MTMRA_MOUSE	Q7TPM9	C703	SGPLEAC[+57]YAELDQSR	HPDP

MTNB_MOUSE	Q9WVQ5	C187	MAHAMNEYPDSC[+329]AVLVRR	IodoTMT6
MTNB_MOUSE	Q9WVQ5	C187	MAHAMNEYPDSC[+329]AVLVR	IodoTMT6
MTR1L_MOUSE	O88495	C363	AC[+57]VAVEGTPR	HPDP
MTUS1_MOUSE	Q5HZI1	C823	SLC[+57]IQTQTAPDVLSSER	HPDP
MYG_MOUSE	P04247	C67	HGC[+57]TVLTALGTILK	HPDP
MYH9_MOUSE	Q8VDD5	C740	QAC[+57]VLMIK	HPDP
MYH9_MOUSE	Q8VDD5	C816	NC[+57]AAYLR	HPDP
MYH9_MOUSE	Q8VDD5	C896	LQLQEQLQAETELC[+57]AEAEELR	HPDP
MYH9_MOUSE	Q8VDD5	C988	KLEEDQIIM[+16]EDQNC[+329]K	IodoTMT6
MYH9_MOUSE	Q8VDD5	C988	LKKLEEDQIIMEDQNC[+329]K	IodoTMT6
MYH9_MOUSE	Q8VDD5	C988	KLEEDQIIMEDQNC[+329]K	IodoTMT6
MYH9_MOUSE	Q8VDD5	C988	LEEDQIIM[+16]EDQNC[+329]K	IodoTMT6
MYH9_MOUSE	Q8VDD5	C988	LEEDQIIMEDQNC[+329]K	IodoTMT6
MYL3_MOUSE	P09542	C191	LMAGQEDSNGC[+57]INYEAFVK	HPDP
MYL6_MOUSE	Q60605	C32	ILYSQC[+57]GDVM[+16]R	HPDP
MYL6_MOUSE	Q60605	C32	ILYSQC[+57]GDVMR	HPDP
MYO1E_MOUSE	E9Q634	C960	AAPAPPGC[+57]HQNGVIR	HPDP
MYOF_MOUSE	Q69ZN7	C1540	ELPDSVPQEC[+57]TVR	HPDP
MYOF_MOUSE	Q69ZN7	C409	VC[+57]TNIER	HPDP
MYOF_MOUSE	Q69ZN7	C409	KVC[+57]TNIER	HPDP
MYOM1_MOUSE	Q62234	C656	C[+57]DVGAENWQR	HPDP
MYOTI_MOUSE	Q9JIF9	C321	ASDAGPYAC[+57]VAR	HPDP
MYPC3_MOUSE	O70468	C1204	SIIAGYNAILC[+125]C[+57]AVR	HPDP
NAL9B_MOUSE	Q66X22	C891,C907,C90	QLC[+57]EALSHPNC[+329]NLEC[+57]LGLDLCEFTSDC[+329]C	IodoTMT6
NARFL_MOUSE	Q7TMW6	C270	DVDC[+57]VLTTGEVFR	HPDP
NDKA_MOUSE	P15532	C145	SC[+329]AQNWIYE	IodoTMT6
NDKB_MOUSE	Q01768	C145	SC[+329]AHDWVYE	IodoTMT6
NDUV1_MOUSE	Q91YT0	C125	YLVVNADEGEPGTC[+329]K	IodoTMT6
NET1_MOUSE	O09118	C17	M[+16]MRAVWEALAALAAVAC[+329]LVGAVR	IodoTMT6
NEXN_MOUSE	Q7TPW1	C585	GETYC[+125]LYLPETFPEDGGGEYMC[+329]K	IodoTMT6
NHRF1_MOUSE	P70441	C201	IVEVNGVC[+57]M[+16]EGK	HPDP
NHRF1_MOUSE	P70441	C201	IVEVNGVC[+57]MEGK	HPDP

NID1_MOUSE	P10493	C1232	C[+329]PDNTLGVDC[+57]IER	IodoTMT6
NIPA_MOUSE	Q80YV2	C405	LC[+57]SSSSSDTSPR	HPDP
NIT1_MOUSE	Q8VDK1	C247, C255	AIESQC[+57]YVIAAAQC[+57]GR	HPDP
NKAI4_MOUSE	Q9JMG4	C8,C14	C[+329]TLLALC[+329]ALQLVTALER	IodoTMT6
NL1B2_MOUSE	A1Z198	C330	QIFGIKALMMVESNPVLLTLCEVPWVCWLVC[+329]NC[+125]I	IodoTMT6
NMDZ1_MOUSE	P35438	C459	KVIC[+125]TGPNDTSPGSPRHTVPQC[+125]C[+125]YGFC[+329]	IodoTMT6
NOP58_MOUSE	Q6DFW4	C439	TYDPSGDSTLPTC[+57]SK	HPDP
NPAS4_MOUSE	Q8BGD7	C149	QQLTM[+16]PSALDADRLFRC[+329]R	IodoTMT6
NRDC_MOUSE	Q8BHG1	C685	AFDC[+57]PETEYPAK	HPDP
NSF_MOUSE	P46460	C11	C[+57]PTDELSLSNC[+125]AVVNEK	HPDP
NSF_MOUSE	P46460	C11, C21	C[+57]PTDELSLSNC[+57]AVVNEK	HPDP
NTKL_MOUSE	Q9EQC5	C241	SLVTHYC[+329]ELVGANPKVRPNPARFLQNCR	IodoTMT6
NUMA1_MOUSE	E9Q7G0	C728	AADALKEQQC[+57]R	HPDP
NUMB_MOUSE	Q9QZS3	C176	EC[+57]GVTATFDASR	HPDP
OBSCN_MOUSE	A2AAJ9	C3100	GTLTLQC[+57]EVSDPEAR	HPDP
OBSCN_MOUSE	A2AAJ9	C3864	SLTIADAGEYLC[+57]TC[+125]GQEK	HPDP
OBSCN_MOUSE	A2AAJ9	C4816	DLTVEDTGEYSC[+57]TC[+125]GQER	HPDP
OBSL1_MOUSE	D3YYU8	C149	GEEVVLTC[+57]QVGGGLPEPK	HPDP
OC90_MOUSE	Q9Z0L3	C371	QVGC[+329]LHGRRSQSSVVCEDHMAK	IodoTMT6
OSBL1_MOUSE	Q91XL9	C520	DC[+57]GGGDALSNGIK	HPDP
OSBP1_MOUSE	Q3B7Z2	C222	VEDLSTC[+57]NDLIAK	HPDP
OXSM_MOUSE	Q9D404	C86	NIPC[+57]SVAAYVPR	HPDP
P3H1_MOUSE	Q3V1T4	C648	TVTAEVQPQC[+57]GR	HPDP
PA2G4_MOUSE	P50580	C49	SLVEASSSGVSVLSLC[+57]EK	HPDP
PACN2_MOUSE	Q9WVE8	C465	IEDEDEQGWC[+329]K	IodoTMT6
PACN2_MOUSE	Q9WVE8	C465	AGDELTKIEDEDEQGWC[+329]K	IodoTMT6
PAFA_MOUSE	Q60963	C290	C[+329]GVALDPWMYPVNEELYSR	IodoTMT6
PAFA_MOUSE	Q60963	C290	C[+329]GVALDPWM[+16]YPVNEELYSR	IodoTMT6
PAFA_MOUSE	Q60963	C290	C[+329]GVALDPWMYPVNEELYSR	IodoTMT6
PARK7_MOUSE	Q99LX0	C53	DVMIC[+57]PDTSLEDAK	HPDP
PARK7_MOUSE	Q99LX0	C58	DVM[+16]IC[+57]PDTSLEDAK	HPDP
PARK7_MOUSE	Q99LX0	C53	DVMIC[+329]PDTSLEDAK	IodoTMT6

PAXI_MOUSE	Q8VI36	C108	NSSASNTQDGVGSLC[+329]SR	IodoTMT6
PCBP1_MOUSE	P60335	C109	LVVPATQC[+57]GSLIGK	HPDP
PCCB_MOUSE	Q99MN9	C271	AFDNDVDALC[+57]NLR	HPDP
PDC6I_MOUSE	Q9WU78	C40	FIQQTYPSPGGEEQAQYC[+57]R	HPDP
PDIA5_MOUSE	Q921X9	C449, C454	IAC[+57]AAVDC[+57]VK	HPDP
PDIA5_MOUSE	Q921X9	C449, C454	KIAC[+57]AAVDC[+57]VK	HPDP
PDIA5_MOUSE	Q921X9	C463	DKNQDLC[+57]QQEAVK	HPDP
PDLI1_MOUSE	O70400	C73	GC[+57]ADNM[+16]TLTVSR	HPDP
PDLI1_MOUSE	O70400	C73	GC[+57]ADNMTLTVSR	HPDP
PDLI5_MOUSE	Q8CI51	C73	AC[+57]TGSLNMTLQR	HPDP
PDLI5_MOUSE	Q8CI51	C73	AC[+57]TGSLNM[+16]TLQR	HPDP
PEA15_MOUSE	Q62048	C27	SAC[+57]KEDIPSEK	HPDP
PEG10_MOUSE	Q7TN75	C521	SIVFNSDYC[+57]R	HPDP
PEG10_MOUSE	Q7TN75	C521	SIVFNSDYC[+329]R	IodoTMT6
PEG3_MOUSE	Q3URU2	C383	EC[+57]GETFSR	HPDP
PELP1_MOUSE	Q9DBD5	C202	AC[+57]VTYFPR	HPDP
PELP1_MOUSE	Q9DBD5	C523	NANSDVC[+57]AAALR	HPDP
PEPD_MOUSE	Q11136	C183	FNVNNTILHPEIVEC[+329]R	IodoTMT6
PEPD_MOUSE	Q11136	C183	EASFEGISKFNVNNTILHPEIVEC[+329]R	IodoTMT6
PEPD_MOUSE	Q11136	C482	TVEEIEAC[+125]MAGC[+329]DK	IodoTMT6
PEPD_MOUSE	Q11136	C58	YC[+329]TDTSIIFR	IodoTMT6
PEPL1_MOUSE	Q6NSR8	C357	LVLADGVSYAC[+57]K	HPDP
PFD3_MOUSE	P61759	C8	DGC[+57]GLETAAGNGR	HPDP
PFKAP_MOUSE	Q9WUA3	C410	SNC[+57]NVAVINVGAPAAGMNA AVR	HPDP
PFKAP_MOUSE	Q9WUA3	C410	SNC[+329]NVAVINVGAPAAGMNA AVR	IodoTMT6
PGBM_MOUSE	Q05793	C1628	TC[+57]ESLGAGGYR	HPDP
PGBM_MOUSE	Q05793	C2456	DITLEC[+57]ISSGEPR	HPDP
PGBM_MOUSE	Q05793	C1530	ALEVEEC[+329]R	IodoTMT6
PGBM_MOUSE	Q05793	C2456	DITLEC[+329]ISSGEPR	IodoTMT6
PGBM_MOUSE	Q05793	C479	EADQGAYTC[+329]EAMNSR	IodoTMT6
PGBM_MOUSE	Q05793	C892	GSLGTSGETC[+329]R	IodoTMT6
PGFS_MOUSE	Q9DB60	C44,C47	AC[+57]VVAGLRRFGC[+329]MVC[+329]R	IodoTMT6

PGS1_MOUSE	P28653	C77	VVQC[+57]SDLGLK	HPDP
PHAG1_MOUSE	Q3U1F9	C423	ESDYESIGDLQQC[+57]R	HPDP
PHAG1_MOUSE	Q3U1F9	C423	ESDYESIGDLQQC[+329]R	IodoTMT6
PIPNB_MOUSE	P53811	C187	ELANTPDC[+57]PR	HPDP
PKHA7_MOUSE	Q3UIL6	C969	DREQGQC[+57]VNGDLK	HPDP
PKHM1_MOUSE	Q7TSI1	C464	SAAGLC[+57]TSPVQDTPESR	HPDP
PKP3_MOUSE	Q9QY23	C129	SAVDLTC[+57]SR	HPDP
PLEC_MOUSE	Q9QXS1	C1386	QEIQAVPIANC[+57]QAAR	HPDP
PLEC_MOUSE	Q9QXS1	C4267	C[+125]ITDPQTGLC[+57]LLPLKEK	HPDP
PLEC_MOUSE	Q9QXS1	C4267	C[+125]ITDPQTGLC[+57]LLPLK	HPDP
PLRG1_MOUSE	Q922V4	C208	C[+57]IAVEPGNQWFVTGSADR	HPDP
PLRG1_MOUSE	Q922V4	C263	SPYLFSC[+329]GEDK	IodoTMT6
PLRG1_MOUSE	Q922V4	C337	C[+329]QAAEQIITGSHD TTIRLWDLVAGKTR	IodoTMT6
PLRG1_MOUSE	Q922V4	C337	C[+329]QAAEQIITGSHD TTIR	IodoTMT6
PMGE_MOUSE	P15327	C145	VC[+57]DVPLDQLPR	HPDP
PP2AB_MOUSE	P63330	C269	C[+329]GNQAAIMELDDTLK	IodoTMT6
PP4P1_MOUSE	Q3TWL2	C94	VC[+57]QSPINVEGK	HPDP
PP4R1_MOUSE	Q8K2V1	C385	LESLEGC[+57]AAK	HPDP
PP6R3_MOUSE	Q922D4	C815	C[+329]TAPLTPSSSPEQR	IodoTMT6
PPBT_MOUSE	P09242	C119	TYNTNAQVPDSAGTATAYLC[+329]GVK	IodoTMT6
PPIA_MOUSE	P17742	C161	KITISDC[+57]GQL	HPDP
PPIA_MOUSE	P17742	C161	ITISDC[+57]GQL	HPDP
PPIA_MOUSE	P17742	C161	TSKKITISDC[+57]GQL	HPDP
PPIA_MOUSE	P17742	C67	IIPGFM[+16]C[+57]QGGDFTR	HPDP
PPIA_MOUSE	P17742	C161	KITISDC[+329]GQL	IodoTMT6
PPIA_MOUSE	P17742	C62	IIPGFMC[+329]QGGDFTR	IodoTMT6
PPIG_MOUSE	A2AR02	C174	ILSC[+57]GELIPK	HPDP
PPIG_MOUSE	A2AR02	C308	EC[+57]NPPNSQPASYQR	HPDP
PPME1_MOUSE	Q8BVQ5	C238	QC[+57]EGITSPEGSK	HPDP
PPP5_MOUSE	Q60676	C404	GVSC[+57]QFGPDVTK	HPDP
PPP5_MOUSE	Q60676	C221	EVLC[+329]KLSTLVETTLK	IodoTMT6
PPR3F_MOUSE	Q9JIG4	C419	ILPATC[+57]GLGGPPR	HPDP

PR8A9_MOUSE	Q9CQ58	C101	AGTYC[+57]HSTLSNPPDR	HPDP
PRAP1_MOUSE	Q80XD8	C9	RFLLATC[+329]LVAALLWEAGAAPAHQVPVK	IodoTMT6
PRD13_MOUSE	E9PZZ1	C653	THTGYKPLKC[+125]KVC[+329]LRPFGDPSNLNK	IodoTMT6
PRDX4_MOUSE	O08807	C54	ENEC[+329]HFYAGGQVYPGEASR	IodoTMT6
PRDX5_MOUSE	P99029	C200	ALNVEPDGTGLTC[+57]SLAPNILSQL	HPDP
PRDX5_MOUSE	P99029	C96	GVLFGVPGAFTPGC[+57]SK	HPDP
PRDX6_MOUSE	O08709	C47	DFTPVC[+57]TTELGR	HPDP
PRDX6_MOUSE	O08709	C47	DFTPVC[+329]TTELGR	IodoTMT6
PRP19_MOUSE	Q99KP6	C298	IWSVPNTSC[+57]VQVVR	HPDP
PRS40_MOUSE	A6H6T1	C60	STLSLSEVC[+57]GK	HPDP
PRS6A_MOUSE	O88685	C399	C[+125]TDDFNGAQC[+329]K	IodoTMT6
PRS7_MOUSE	P46471	C377	LC[+57]PNSTGAEIR	HPDP
PRS7_MOUSE	P46471	C389	SVC[+57]TEAGMFAIR	HPDP
PRS7_MOUSE	P46471	C389	SVC[+57]TEAGM[+16]FAIR	HPDP
PSA6_MOUSE	Q9QUM9	C154, C161	C[+57]DPAGYYC[+57]GFK	HPDP
PSA6_MOUSE	Q9QUM9	C167	C[+125]DPAGYYC[+57]GFK	HPDP
PSA6_MOUSE	Q9QUM9	C161	C[+125]DPAGYYC[+329]GFK	IodoTMT6
PSD13_MOUSE	Q9WVJ2	C114	SSDEAVILC[+329]KTAIGALK	IodoTMT6
PTGR1_MOUSE	Q91YR9	C251	TGPC[+57]PQGPAPVVIYQQLR	HPDP
PTN1_MOUSE	P35821	C32	HEASDFPC[+57]K	HPDP
PUR2_MOUSE	Q64737	C41	QVLVAPGNAGTAC[+57]AGK	HPDP
PUR4_MOUSE	Q5SUR0	C270	FC[+57]DNSSAIQ GK	HPDP
PUR9_MOUSE	Q9CWJ9	C434	YTQSNSVC[+57]YAK	HPDP
PURA2_MOUSE	P46664	C58	VVDLLAQDADIVC[+57]R	HPDP
PZP_MOUSE	Q61838	C933	EQTYNTLLC[+329]PQDTELQDNWSLELPPNVVEGSAR	IodoTMT6
QCR1_MOUSE	Q9CZ13	C268	VYEEDAVPGLTPC[+329]R	IodoTMT6
RABL6_MOUSE	Q5U3K5	C501	VAPQQC[+57]SEPETK	HPDP
RACK1_MOUSE	P68040	C153	YTVQDESHSEWVSC[+57]VR	HPDP
RAE1L_MOUSE	Q8C570	C106	VFTASC[+57]DK	HPDP
RB33B_MOUSE	O35963	C48	IIVIGDSNVGKTC[+329]LTYRFCAGR	IodoTMT6
RB6I2_MOUSE	Q99MI1	C258	TGEPC[+57]VAELTEENFQR	HPDP
RBMS2_MOUSE	Q8VC70	C217	TPPGVAAPSDPLLC[+57]K	HPDP

RBX1_MOUSE	P62878	C94	QVC[+57]PLDNR	HPDP
RENBP_MOUSE	P82343	C250	DGQVVLENVSEDGKELPGC[+57]LGR	HPDP
RFLB_MOUSE	Q5SVD0	C88	LC[+57]PLSFGEGVEFDPLPPK	HPDP
RHG01_MOUSE	Q5FWK3	C91	IIVFSAC[+57]R	HPDP
RHG10_MOUSE	Q6Y5D8	C587	TSPDTTFAEPTC[+57]LSASPPNAPPR	HPDP
RHG29_MOUSE	Q8CGF1	C1152	SSDSC[+57]PATAVR	HPDP
RHOA_MOUSE	Q9QUI0	C164	IGAFGYM[+16]EC[+57]SAK	HPDP
RL12_MOUSE	P35979	C141	EILGTAQSVGC[+57]NVDGR	HPDP
RL12_MOUSE	P35979	C17	C[+57]TGGEVGATSALAPK	HPDP
RL12_MOUSE	P35979	C17	C[+329]TGGEVGATSALAPK	IodoTMT6
RL13A_MOUSE	P19253	C38	C[+57]JEGINISGNFYR	HPDP
RL18A_MOUSE	P62717	C64	SSGEIVYC[+57]GQVFEK	HPDP
RL18A_MOUSE	P62717	C64	SSGEIVYC[+329]GQVFEKSPLR	IodoTMT6
RL18A_MOUSE	P62717	C64	SSGEIVYC[+329]GQVFEK	IodoTMT6
RL23_MOUSE	P62830	C125	EC[+57]ADLWPR	HPDP
RL27A_MOUSE	P14115	C144	GVGGAC[+57]VLVA	HPDP
RL28_MOUSE	P41105	C13	NC[+57]SSFLIK	HPDP
RL28_MOUSE	P41105	C13	NC[+57]SSFLIKR	HPDP
RL30_MOUSE	P62889	C92	VC[+57]TLAIIDPGDSDIIR	HPDP
RL30_MOUSE	P62889	C52	LVILANNC[+329]PALR	IodoTMT6
RL30_MOUSE	P62889	C92	VC[+329]TLAIIDPGDSDIIR	IodoTMT6
RL36_MOUSE	P47964	C48	EVC[+57]GFAPYER	HPDP
RL36A_MOUSE	P83882	C72, C77	LEC[+57]VEPNC[+57]R	HPDP
RL37A_MOUSE	P61514	C48	YTC[+125]SFC[+57]GK	HPDP
RL37A_MOUSE	P61514	C42	YTC[+125]SFC[+329]GK	IodoTMT6
RL4_MOUSE	Q9D8E6	C101	SGQGAFGNM[+16]C[+57]R	HPDP
RL4_MOUSE	Q9D8E6	C208	GPC[+57]IYDNGIHK	HPDP
RL7A_MOUSE	P12970	C182	MGVPYC[+57]IHK	HPDP
RL9_MOUSE	P51410	C134	TGVAC[+57]SVSQAQK	HPDP
RLA0_MOUSE	P14869	C119	AGAIAPC[+57]EVTVPAQNTGLGPEK	HPDP
RLA0_MOUSE	P14869	C119	AGAIAPC[+329]EVTVPAQNTGLGPEK	IodoTMT6
RLA0_MOUSE	P14869	C119	AGAIAPC[+329]EVTVPAQNTGLGPEKTSFFQALGITTKISR	IodoTMT6

RLA0_MOUSE	P14869	C119	AGAIAPC[+329]EVTVPAQNTGLGPEKTSFFQALGITTK	IodoTMT6
RN126_MOUSE	Q91YL2	C32	C[+57]ESGFIEELPEETR	HPDP
RPAP3_MOUSE	Q9D706	C341	DC[+57]TQAIVLDSYSK	HPDP
RPB2_MOUSE	Q8CFI7	C221	YAYTGEC[+57]R	HPDP
RPB2_MOUSE	Q8CFI7	C892	DC[+57]STFLR	HPDP
RRAGC_MOUSE	Q99K70	C376	SC[+57]SHQTSAPSLK	HPDP
RRAS2_MOUSE	P62071	C55	QC[+57]VIDDR	HPDP
RRBP1_MOUSE	Q99PL5	C1327	EAEETQNSLQAEC[+57]DQYR	HPDP
RRBP1_MOUSE	Q99PL5	C1327	LREAEETQNSLQAEC[+57]DQYR	HPDP
RRBP1_MOUSE	Q99PL5	C1198	LKELESQVSC[+329]LEK	IodoTMT6
RRBP1_MOUSE	Q99PL5	C1327	LREAEETQNSLQAEC[+329]DQYR	IodoTMT6
RRBP1_MOUSE	Q99PL5	C1327	EAEETQNSLQAEC[+329]DQYR	IodoTMT6
RS11_MOUSE	P62281	C131	DVQIGDIVTVGEC[+57]RPLSK	HPDP
RS11_MOUSE	P62281	C60	C[+329]PFTGNVSIR	IodoTMT6
RS16_MOUSE	P14131	C25	TATAVAHC[+57]K	HPDP
RS17_MOUSE	P63276	C35	VC[+57]EEIAIIPSK	HPDP
RS17_MOUSE	P63276	C35	VC[+57]EEIAIIPSKK	HPDP
RS27A_MOUSE	P62983	C144, C155	C[+57]C[+125]LTYC[+57]FNKPEDK	HPDP
RS3_MOUSE	P62908	C119	AC[+57]YGVLR	HPDP
RS3_MOUSE	P62908	C134	GC[+57]EVVVSGK	HPDP
RS5_MOUSE	P97461	C66	AQC[+57]PIVER	HPDP
RS6_MOUSE	P62754	C12	LNISFPATGC[+57]QK	HPDP
RS8_MOUSE	P62242	C100	NC[+57]IVLIDSTPYR	HPDP
RSSA_MOUSE	P14206	C163	YVDIAIPC[+57]NNK	HPDP
RTCB_MOUSE	Q99LF4	C193	EGYAWAEDKEHC[+329]EEYGR	IodoTMT6
RUS1_MOUSE	Q91W34	C12	APLC[+57]TEQFGSGAPR	HPDP
RUVB2_MOUSE	Q9WTM5	C227	FVQC[+57]PDGELQK	HPDP
RUXF_MOUSE	P62307	C66	C[+329]NNVLYIR	IodoTMT6
S2533_MOUSE	Q3TZX3	C30	ATGTQQKENTLLHLFAGGC[+125]GGTVGAIFTC[+329]PLEVIF	IodoTMT6
S27A1_MOUSE	Q60714	C80	AGDTIPC[+57]IFQAVAR	HPDP
S7A6O_MOUSE	Q7TPE5	C27	NAEPAEALVLAC[+57]K	HPDP
SAC1_MOUSE	Q9EP69	C445	NAWADNANAC[+57]AK	HPDP

SAFB1_MOUSE	Q80YR5	C219	ILDILGETC[+329]K	IodoTMT6
SAHH_MOUSE	P50247	C278	EGNIFVTTTGC[+57]VDIILGR	HPDP
SAHH_MOUSE	P50247	C297	DDAIVC[+57]NIGHFDVEIDVK	HPDP
SAHH3_MOUSE	Q68FL4	C189	GSSDFC[+57]VK	HPDP
SAMH1_MOUSE	Q60710	C342	IC[+57]EVEYK	HPDP
SAMH1_MOUSE	Q60710	C614	TSSC[+57]LQEVSK	HPDP
SBP1_MOUSE	P17563	C31	C[+125]GPGYSTPLEAMKGPREEIVYLPC[+329]IYR	IodoTMT6
SBP1_MOUSE	Q63836	C31	GPREEIVYLPC[+329]IYR	IodoTMT6
SBP1_MOUSE	Q63836	C31	EEIVYLPC[+329]IYR	IodoTMT6
SC23A_MOUSE	Q01405	C74	AVLNPLC[+57]QVDYR	HPDP
SC23B_MOUSE	Q9D662	C425	IAGAIGPC[+57]VSLNVK	HPDP
SC23B_MOUSE	Q9D662	C434	GPC[+57]VSENELGVGGTSQWK	HPDP
SC23B_MOUSE	Q9D662	C74	AILNPLC[+57]QVDYR	HPDP
SC31A_MOUSE	Q3UPL0	C173	TQPPEDISC[+57]IAWNR	HPDP
SC31A_MOUSE	Q3UPL0	C60	SC[+57]ATFSSSHR	HPDP
SEC62_MOUSE	Q8BU14	C82	ESVVDYC[+57]NR	HPDP
SF01_MOUSE	Q64213	C279	SITNTTVC[+57]TK	HPDP
SGT1_MOUSE	Q9CX34	C79	SLELNPNNC[+57]TALLR	HPDP
SH3G1_MOUSE	Q62419	C277	EPFELGELEQPNGGFPC[+57]APAPK	HPDP
SH3G1_MOUSE	Q62419	C311	SMPLDQPSC[+329]K	IodoTMT6
SHRM2_MOUSE	A2ALU4	C886	SLATSC[+57]GEILSDR	HPDP
SI1L1_MOUSE	Q8C0T5	C585	HSTARGLPLKEVLEHVIPELNVQC[+329]LR	IodoTMT6
SIA7B_MOUSE	P70277	C65	KSRLC[+329]QHSLSLAIQK	IodoTMT6
SIDT2_MOUSE	Q8CIF6	C430	QYLC[+57]VADLAR	HPDP
SLK_MOUSE	O54988	C1136	DLQLQC[+57]EANVR	HPDP
SMD2_MOUSE	P62317	C46	NNTQVLINC[+329]R	IodoTMT6
SMD2_MOUSE	P62317	C46	EEEEFNTGPLSVLTQSVKNNTQVLINC[+329]R	IodoTMT6
SMD2_MOUSE	P62317	C46	REEEEFNTGPLSVLTQSVKNNTQVLINC[+329]R	IodoTMT6
SMD3_MOUSE	P62320	C20	VLHEAEGHIVTC[+329]ETNTGEVYR	IodoTMT6
SMU1_MOUSE	Q3UKJ7	C383	TTEC[+57]SNTFK	HPDP
SND1_MOUSE	Q78PY7	C152	LSEC[+57]EEQAK	HPDP
SODC_MOUSE	P08228	C147	LAC[+57]GVIGIAQ	HPDP

SODC_MOUSE	P08228	C147	TGNAGSRLAC[+57]GVIGIAQ	HPDP
SODC_MOUSE	P08228	C7	AVC[+329]VLKGDGPVQGTHFEQK	IodoTMT6
SPAS2_MOUSE	Q8K1N4	C356	FTC[+57]DVETLK	HPDP
SPCS2_MOUSE	Q9CYN2	C26	SGGGGGSSGAGGGPSC[+57]GTSSSR	HPDP
SPEG_MOUSE	Q62407	C2710	APC[+57]TYTLER	HPDP
SPNS1_MOUSE	Q8R0G7	C44	SGELEVPDC[+57]EGLQR	HPDP
SPSB3_MOUSE	Q571F5	C271	VIRSC[+329]ASSTSLQYLCCYRLR	IodoTMT6
SPTN1_MOUSE	P16546	C1930	VNDVC[+57]TNGQDLIK	HPDP
SRB4D_MOUSE	A1L0T3	C138	QLGCGLALPVRPLAFGQGRGPIFLDNVEC[+329]R	IodoTMT6
SRBP1_MOUSE	Q9WTN3	C738,C753	QAC[+329]LAQSGSVPLAMQWLC[+329]HPVGHR	IodoTMT6
SRC_MOUSE	P05480	C408	AANILVGENLVC[+329]K	IodoTMT6
SRCRL_MOUSE	Q8BV57	C6	MRGLAC[+329]LLAM[+16]LVGIQAIER	IodoTMT6
SRP09_MOUSE	P49962	C48	VTDDLVC[+57]LVYR	HPDP
SRRT_MOUSE	Q99MR6	C489	EC[+57]ELSPGVNR	HPDP
SRSF1_MOUSE	Q6PDM2	C148	EAGDVC[+57]YADVYR	HPDP
SRSF3_MOUSE	P84104	C6, C10	DSC[+57]PLDC[+57]K	HPDP
SSU72_MOUSE	Q9CY97	C12	VAVVC[+57]SSNQNR	HPDP
STA5B_MOUSE	P42232	C688	YYTPVPC[+57]EPATAK	HPDP
STIM1_MOUSE	P70302	C49	NTGASSGATSEESTEAEFC[+329]R	IodoTMT6
STIP1_MOUSE	Q60864	C461	ALDLSSC[+57]K	HPDP
STIP1_MOUSE	Q60864	C461	ALDLSSC[+57]KEAADGYQR	HPDP
STK39_MOUSE	Q9Z1W9	C461	EGPC[+57]AVNLVLR	HPDP
STRN4_MOUSE	P58404	C569	LASC[+57]SADGTVR	HPDP
STX7_MOUSE	O70439	C28	ITQC[+57]SVEIQR	HPDP
STXB5_MOUSE	Q8K400	C293	KPEPC[+329]KPILKVELKTTR	IodoTMT6
SUCB1_MOUSE	Q9Z2I9	C164	IC[+125]NQVLVC[+57]ER	HPDP
SUCB1_MOUSE	Q9Z2I9	C430	ILAC[+57]DDLDEAAK	HPDP
SYDC_MOUSE	Q922B2	C76	QC[+57]FLVLR	HPDP
SYEP_MOUSE	Q8CGC7	C697	EAPC[+57]ILYIPDGHTK	HPDP
SYEP_MOUSE	Q8CGC7	C910	VAC[+57]QGEVVR	HPDP
SYK_MOUSE	Q99MN1	C432	AVEC[+57]PPPR	HPDP
SYNPO_MOUSE	Q8CC35	C686	ASPAAAEAVPEWASC[+57]LK	HPDP

SYSM_MOUSE	Q9JL8	C425	YGEVTSASNC[+57]TDFQSR	HPDP
SYT2_MOUSE	P46097	C91	IPLPPWALIAM[+16]AVVAGLLLLTCC[+57]FCIC[+57]KKCC[+3	IodoTMT6
SYTC_MOUSE	Q9D0R2	C266	C[+125]GPLIDLC[+57]R	HPDP
TALDO_MOUSE	Q93092	C250	ALAGC[+57]DFLTISPK	HPDP
TARA_MOUSE	Q99KW3	C1491	SC[+57]TDVTEYAVQR	HPDP
TARA_MOUSE	Q99KW3	C1921	SFIASQGTGNSC[+57]GR	HPDP
TARA_MOUSE	Q99KW3	C1930	SSC[+57]ELEVLLR	HPDP
TARA_MOUSE	Q99KW3	C1491	SC[+329]TDVTEYAVQR	IodoTMT6
TB182_MOUSE	P58871	C259	LAC[+57]SEAPTDVSK	HPDP
TBA1B_MOUSE	P68368	C295	AYHEQLSVAEITNAC[+329]FEPANQM[+16]VK	IodoTMT6
TBA1B_MOUSE	P68368	C295	AYHEQLSVAEITNAC[+329]FEPANQMVK	IodoTMT6
TBCD_MOUSE	Q8BYA0	C665	AVQSLKQIHQQLC[+329]DRHLYR	IodoTMT6
TBPL1_MOUSE	P62340	C68	IIC[+57]TGATSEEEAK	HPDP
TCPA_MOUSE	P11983	C147	DC[+57]LINA AK	HPDP
TCPA_MOUSE	P11983	C357	IC[+57]DDELILIK	HPDP
TCPA_MOUSE	P11983	C357	IC[+57]DDELILIKNTK	HPDP
TCPD_MOUSE	P80315	C295	TGC[+57]NVLLIQK	HPDP
TCPG_MOUSE	P80318	C403	NLQDAM[+16]QVC[+57]R	HPDP
TCPH_MOUSE	P80313	C370	TC[+57]TIILR	HPDP
TERA_MOUSE	Q01853	C105	LGDVISIQPC[+57]PDVK	HPDP
TERA_MOUSE	Q01853	C69, C77	EAVC[+57]IVLSDDTC[+57]SDEK	HPDP
TERA_MOUSE	Q01853	C184	VVETDPSPYC[+125]IVAPD TVIHC[+329]EGEPIKR	IodoTMT6
TERA_MOUSE	Q01853	C69	EAVC[+329]IVLSDDTC[+125]SDEKIR	IodoTMT6
TERA_MOUSE	Q01853	C69	EAVC[+329]IVLSDDTC[+125]SDEK	IodoTMT6
TERA_MOUSE	Q01853	C77	EAVC[+125]IVLSDDTC[+329]SDEK	IodoTMT6
TERA_MOUSE	Q01853	C77	EAVC[+125]IVLSDDTC[+329]SDEKIR	IodoTMT6
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TGM2_MOUSE	P21981	C370	SEGTYC[+57]C[+125]GPVSVR	HPDP
TGM2_MOUSE	P21981	C370, C371	SEGTYC[+57]C[+57]GPVSVR	HPDP
TGM2_MOUSE	P21981	C553	YSGC[+57]L TESNLIK	HPDP
TGM2_MOUSE	P21981	C10	C[+329]DLEIQANGR	IodoTMT6
THIM_MOUSE	Q8BWT1	C382	YAVGSAC[+57]IGGGQGIALIIQNTA	HPDP

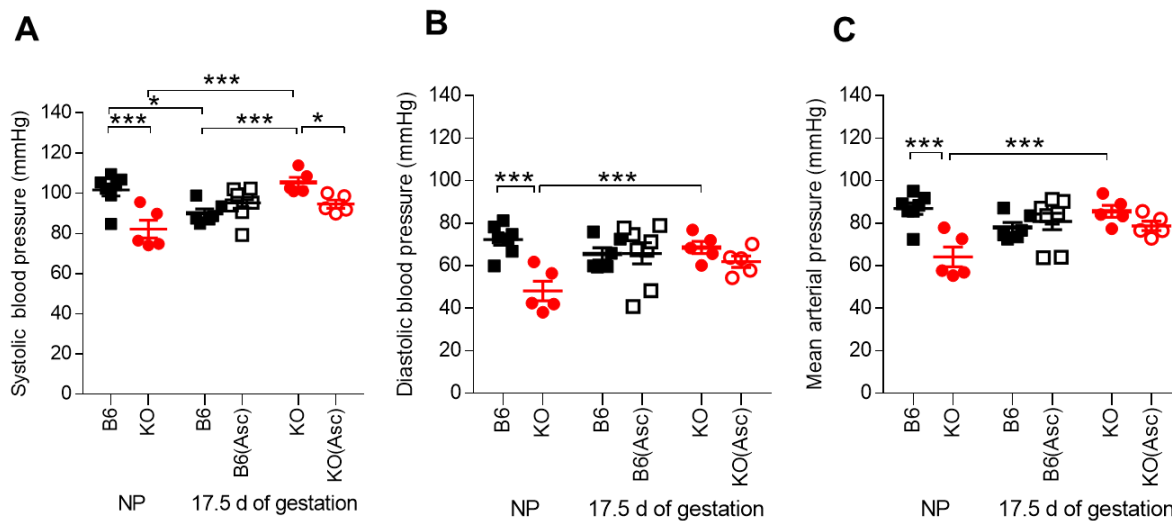
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TINAL_MOUSE	Q99JR5	C445	GTNEC[+57]DIETFVLGVWGR	HPDP
TINAL_MOUSE	Q99JR5	C326	C[+329]PNGQVDSNDIYQVTPAYR	IodoTMT6
TIPRL_MOUSE	Q8BH58	C87	VAC[+57]AEEWQESR	HPDP
TITIN_MOUSE	A2ASS6	C13473	C[+57]EVSKDVPVK	HPDP
TITIN_MOUSE	A2ASS6	C14323	ILIIQNAQLEDAGSYNC[+57]R	HPDP
TITIN_MOUSE	A2ASS6	C16418	C[+57]NEHLVPVLTYTAK	HPDP
TITIN_MOUSE	A2ASS6	C18063	EC[+57]MYTIPK	HPDP
TITIN_MOUSE	A2ASS6	C18869	VPDLLEGCG[+57]QYEFR	HPDP
TITIN_MOUSE	A2ASS6	C20340	C[+57]NAAAQLIR	HPDP
TITIN_MOUSE	A2ASS6	C2115	VVGKPDPEC[+57]EWYK	HPDP
TITIN_MOUSE	A2ASS6	C21280	C[+57]DPPVISNITK	HPDP
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TITIN_MOUSE	A2ASS6	C21561	YILTLENSC[+57]GKK	HPDP
TITIN_MOUSE	A2ASS6	C21780	DLPDLC[+57]YLAK	HPDP
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TITIN_MOUSE	A2ASS6	C26841	AAADEWTTC[+57]TPPSGLQGK	HPDP
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TKT_MOUSE	P40142	C468	AVELAANTKGIC[+329]FIR	IodoTMT6
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TPSN_MOUSE	Q9R233	C118	SLSPEQNC[+57]PR	HPDP
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TRFE_MOUSE	Q921I1	C395	IEC[+57]ESAETTEDC[+329]IEK	IodoTMT6
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TRFE_MOUSE	Q921I1	C472	SC[+329]HTGVDR	IodoTMT6
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TRI42_MOUSE	Q9D2H5	C18,C27	ETAMCVC[+57]SPCC[+57]TWQRC[+125]C[+329]PRLFSCLCC[IodoTMT6
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TXND5_MOUSE	Q91W90	C114	VDC[+57]TADSDVC[+329]SAQGVR	IodoTMT6

U3IP2_MOUSE	Q91WM3	C460	NSVC[+57]IPLR	HPDP
UBA6_MOUSE	Q8C7R4	C298	TFC[+57]FEPLESQIK	HPDP
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UBA6_MOUSE	Q8C7R4	C546	VC[+57]PATESIYSDEFYTK	HPDP
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UBE2O_MOUSE	Q6ZPJ3	C309	SFC[+57]PGGTDSVSPPPSITQENLGR	HPDP
UBE2O_MOUSE	Q6ZPJ3	C365	IAWEC[+57]PEK	HPDP
UBP15_MOUSE	Q8R5H1	C264	NSNYC[+57]LPSYTAYK	HPDP
UBP16_MOUSE	Q99LG0	C24	SAPDTVASESAEPVC[+57]R	HPDP
UBP4_MOUSE	P35123	C758	SLYFDEQESEAC[+329]EK	IodoTMT6
UBP47_MOUSE	Q8BY87	C856	AGGDSGNVDDDC[+57]ER	HPDP
UBR1_MOUSE	O70481	C279	AGVYATC[+57]QEAK	HPDP
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UTP20_MOUSE	Q5XG71	C2058	KPAAPVPDARLPPQSC[+329]LLLPATPVRGGPK	IodoTMT6
VAT1_MOUSE	Q62465	C99	AC[+57]GLNFADLM[+16]GR	HPDP
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VAV2_MOUSE	Q60992	C196, C197	SC[+57]C[+57]LLEIQETEAKE	HPDP
VDAC1_MOUSE	Q60932	C245	YQVDPDAC[+329]FSAK	IodoTMT6
VDAC2_MOUSE	Q60930	C48	SC[+329]SGVEFSTSGSNTDTGK	IodoTMT6
VDAC3_MOUSE	Q60931	C36	SC[+329]SGVEFSTSGHAYTDTGK	IodoTMT6
VIGLN_MOUSE	Q8VDJ3	C53	AAC[+57]LESAQEPAGAWSNK	HPDP
VIME_MOUSE	P20152	C328	QVQSLTC[+329]EVDALK	IodoTMT6
VIME_MOUSE	P20152	C328	QVQSLTC[+329]EVDALKGTNESLER	IodoTMT6
VPP2_MOUSE	P15920	C315	KMKAIYHMLNMC[+329]SFDVTNK	IodoTMT6
VPS8_MOUSE	Q0P5W1	C1293	EC[+57]TLEVEGQTR	HPDP
VTNC_MOUSE	P29788	C179	GQYC[+329]YELDETA VRPGYPK	IodoTMT6
VTNC_MOUSE	P29788	C473	SIAQYWLGC[+329]PTSEK	IodoTMT6
VWDE_MOUSE	Q6DFV8	C217	ISVELLGSVFC[+125]RC[+329]TFDVSPNTSVGFLIAWSR	IodoTMT6
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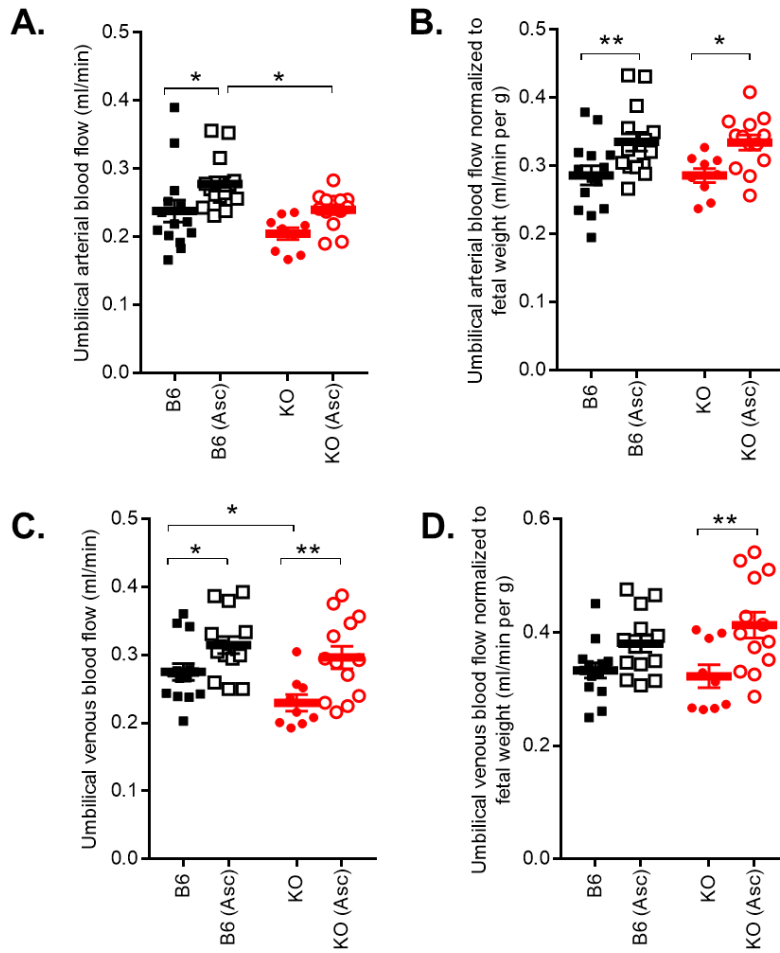
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WDR5_MOUSE	P61965	C195	DGSLIVSSSYDGLC[+329]R	IodoTMT6
WFD11_MOUSE	A2A5H7	C8	KPSWFPC[+329]LVFLC[+125]M[+16]LLLSALGGRK	IodoTMT6
XDH_MOUSE	Q00519	C970, C974	C[+57]WDEC[+57]IASSQYQAR	HPDP
XIRP1_MOUSE	O70373	C997	ISGSTPC[+57]PPPSR	HPDP
XPO7_MOUSE	Q9EPK7	C43	ALVEFTNSPDC[+57]LSK	HPDP
XPP3_MOUSE	B7ZMP1	C491	IEDDVVVTQDSPLILSADC[+57]PK	HPDP
XRN2_MOUSE	Q9DBR1	C276	DC[+57]EGLPR	HPDP
YAP1_MOUSE	P46938	C328	C[+57]QELALR	HPDP
YIPF5_MOUSE	Q9EQQ2	C42	QYAGC[+57]DYSQQGR	HPDP
Z354C_MOUSE	Q571J5	C248	LHTGEKPYKC[+329]SECGKSFSHR	IodoTMT6
ZFPL1_MOUSE	Q9DB43	C56	LC[+57]NTPLASR	HPDP
ZN106_MOUSE	O88466	C7,C10	KC[+329]ILC[+329]HIVYGSK	IodoTMT6
ZN363_MOUSE	Q9CR50	C243	LC[+57]DSYNTAQAGGR	HPDP
ZN689_MOUSE	Q8BKK5	C263	THTGEEKPHQC[+329]PSCGRRFAYPSSLAIHQ	IodoTMT6
ZYX_MOUSE	Q62523	C376	QSVAVNESC[+57]GK	HPDP
ZYX_MOUSE	Q62523	C379	C[+57]NQPLAR	HPDP

Figure S1. (A) Systolic, (B) diastolic and (C) mean arterial blood pressure were determined in non-pregnant and at 17.5 days (d) of gestation (N=5-8 mothers per group) in C57Bl/6J (B6), GSNOR^{-/-} (KO), and in mice treated with ascorbate (Asc).



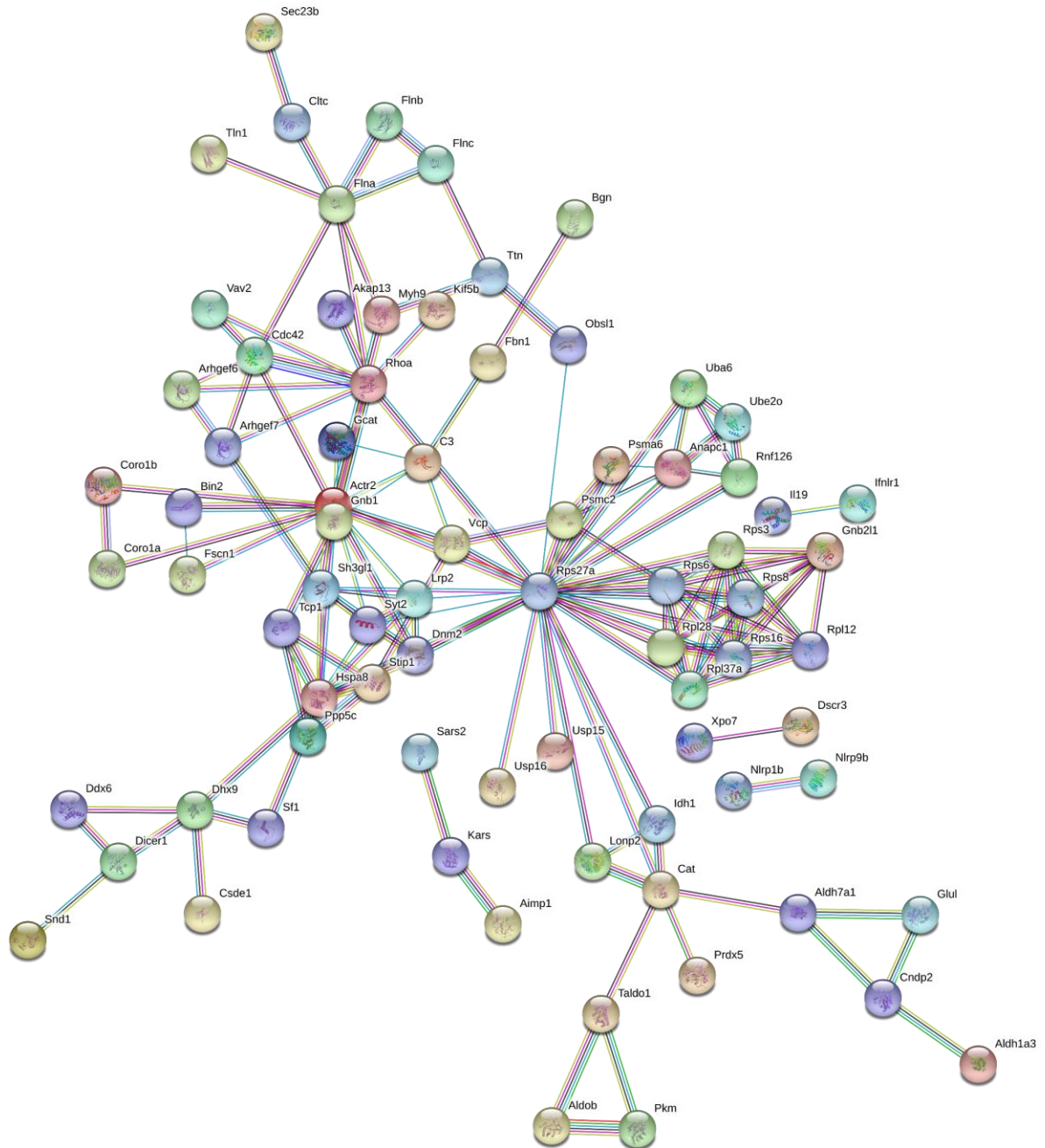
Systolic, diastolic and mean arterial pressure were significantly lower in KO mice prior to pregnancy. During pregnancy, blood pressure increased in KO mice. Ascorbate treatment prevented the onset of systolic blood pressure in KO mice at 17.5 d of gestation. Results are shown as mean \pm SEM. * $P < 0.05$, *** $P < 0.001$. Two-way ANOVA with Newman-Keuls for post hoc analysis.

Figure S2. Umbilical arterial and venous blood flow (A, C) and blood flow normalized to fetal weight (B, D) were determined using micro-ultrasound in isoflurane-anesthetized embryos on day 17.5 of gestation in C57Bl/6J (B6), GSNOR^{-/-} (KO), and in mice treated with ascorbate (Asc).



Umbilical venous blood flow was significantly lower in KO fetuses at 17.5 d of gestation and was rescued with Asc treatment. Results are shown as mean \pm SEM. * $P < 0.05$, ** $P < 0.01$. Two-way ANOVA with Newman-Keuls for post hoc analysis.

Figure S3. Pathway analysis of list of proteins nitrosylated in GSNOR^{-/-} placentas as compared to B6 placentas determined using dual-labelling mass spectrometry analysis was created using String-DB.



All SNO-proteins were detected in at least 2 of 5 placentas/group. The number in the observation column is the number of placentas that showed expression of that particular SNO-protein for that group. These proteins correlate to data shown in Table S2.