

Supplementary Data

SUPPLEMENTARY TABLE S1. PUTATIVE MAMMALIAN THIOREDOXIN 1 DISULFIDE REDUCTION TARGETS

<i>Target proteins</i>	<i>Accession (Swiss-Prot)</i>	<i>Method</i>	<i>Reference</i>
Metabolic proteins			
Carbohydrate metabolism			
Acetyl-coenzyme A synthetase 2-like	Q99NB1	Tg mice, ICAT	(75)
Glyceraldehyde-3-phosphate dehydrogenase	P16858	Tg mice, ICAT	(75)
Insulin	P01308	Enzyme activity assay	(108)
L-Lactate dehydrogenase B chain	P16125	Tg mice, ICAT	(75)
Phosphoglucomutase-1	Q9D0F9	Tg mice, ICAT	(75)
Phosphoglycerate kinase 1	P09411	Tg mice, ICAT	(75)
Pyruvate dehydrogenase E1 component subunit α	P35486	Tg mice, ICAT	(75)
Pyruvate dehydrogenase E1 component subunit β	Q9D051	Tg mice, ICAT	(75)
Triose-phosphate isomerase	P17751	Tg mice, ICAT	(75)
Tricarboxylic acid cycle			
Citrate synthase	Q9CZU6	Tg mice, ICAT	(75)
Isocitrate dehydrogenase	P54071	Tg mice, ICAT	(75)
Malate dehydrogenase, mitochondrial	P08249	Tg mice, ICAT	(75)
Fatty acid metabolism			
Carnitine O-palmitoyltransferase I	Q924X2	Tg mice, ICAT	(75)
$\Delta 3,5$ - $\Delta 2,4$ -Dienoyl-CoA isomerase	O35459	Tg mice, ICAT	(75)
Enoyl-CoA hydratase	Q8BH95	Tg mice, ICAT	(75)
Fatty acid-binding protein	P04117	Tg mice, ICAT	(75)
Long-chain-fatty-acid-CoA ligase 1	P41216	Tg mice, ICAT	(75)
Long-chain-specific acyl-CoA dehydrogenase	P51174	Tg mice, ICAT	(75)
Very-long-chain-specific acyl-CoA dehydrogenase	P50544	Tg mice, ICAT	(75)
Oxidative phosphorylation			
ATP synthase ϵ chain	P56382	Tg mice, ICAT	(75)
Electron transfer flavoprotein-ubiquinone oxidoreductase	Q921G7	Tg mice, ICAT	(75)
NADH dehydrogenase protein 2	Q91WD5	Tg mice, ICAT	(75)
NADH dehydrogenase protein 6	P52503	Tg mice, ICAT	(75)
NADH dehydrogenase subcomplex subunit 10	Q99LC3	Tg mice, ICAT	(75)
Succinate dehydrogenase flavoprotein subunit	Q8K2B3	Tg mice, ICAT	(75)
Other metabolic proteins			
Aldose reductase	P45376	Tg mice, ICAT	(75)
Aspartate aminotransferase	P05202	Tg mice, ICAT	(75)
Creatine kinase M-type	P07310	Tg mice, ICAT	(75)
Creatine kinase, sarcomeric mitochondrial	Q6P8J7	Tg mice, ICAT	(75)
Fumarylacetoacetate hydrolase	Q8R0F8	Tg mice, ICAT	(75)
Malate dehydrogenase, cytoplasmic	P14152	Tg mice, ICAT	(75)
Nucleoside-diphosphate kinase B	Q01768	Tg mice, ICAT	(75)
2-Oxoglutarate dehydrogenase E1 component	Q60597	Tg mice, ICAT	(75)
Muscle/structural proteins			
Actin, α cardiac muscle	P68033	Tg mice, ICAT	(75)
Filamin-C	Q8VHX6	Tg mice, ICAT	(75)
Four and a half LIM domains protein 2	O70433	Tg mice, ICAT	(75)
Myosin light polypeptide 3	P09542	Tg mice, ICAT	(75)
Myosin-6	Q02566	Tg mice, ICAT	(75)
Myosin-binding protein C	O70468	Tg mice, ICAT	(75)
Obscurin	A2AAJ9	Tg mice, ICAT	(75)
Tropomyosin α -1 chain	P58771	Tg mice, ICAT	(75)

(continued)

TABLE S1. (CONTINUED)

Target proteins	Accession (Swiss-Prot)	Method	Reference
Redox/chaperone proteins			
Apolipoprotein A-I-binding protein	Q8K4Z3	Tg mice, ICAT	(75)
Dnaj homolog subfamily A member 1	P31689	Y2H, pull-down assay, Trx1 mutation, enzyme activity assay	(46)
Dnaj homolog subfamily A member 2	Q9QYJ0	Tg mice, ICAT	(75)
Dnaj homolog subfamily A member 3	Q99M87	Tg mice, ICAT	(75)
Dnaj homolog subfamily B member 5	O75953	DNA microarray, Tg mice, pull-down assays, IB, MS/MS	(3)
FAD-linked sulfhydryl oxidase ALR	P55789	EMSA, Co-IP, pull-down assay, Y2H, IB	(145)
3-Mercaptopyruvate sulfurtransferase	P97532	Trx1 mutation, enzyme activity assay	(190)
Methionine-R-sulfoxide reductase B3, mitochondrial	Q8IXL7	Enzyme activity assay, IB	(125)
Methionine-R-sulfoxide reductase B2, mitochondrial	Q78J03	Enzyme activity assay, IB	(125)
Peroxiredoxin 1	Q06830	Peroxidase activity assay, EMSA	(39, 123)
Peroxiredoxin 2	P32119	Peroxidase activity assay	(39, 123)
Peroxiredoxin 3	P30048	Peroxidase activity assay	(39, 123)
Peroxiredoxin 4	Q13162	Peroxidase activity assay, IP	(200)
Peroxiredoxin 5	P99029	Tg mice, ICAT, peroxidase activity assay, Trx1 mutation	(75, 239, 284)
Peptidyl-prolyl cis-trans isomerase A	P17742	Tg mice, ICAT	(75)
Peptidyl-prolyl cis-trans isomerase	Q99KR7	Tg mice, ICAT	(75)
Protein DJ-1	Q99LX0	Tg mice, ICAT	(75)
Ribonucleoside-diphosphate reductase large subunit	P07742	Enzyme activity assay	(12)
Thioredoxin-binding protein-2	Q9H3M7	Nonreducing gel electrophoresis, GST pull-down, enzyme activity assay, IB	(210)
Others			
α 2-HS-glycoprotein	P29699	Tg mice, ICAT	(75)
Calcineurin	Q08209	Enzyme activity assay	(28)
Carbonic anhydrase III	P14141	Isoelectric focusing, Enzyme activity assay	(40)
Rab GDP dissociation inhibitor β	Q61598	Tg mice, ICAT	(75)
Tyrosine phosphatase non-receptor type 2	P17706	Enzyme activity assay, MS/MS	(41)
Signaling/apoptosis proteins			
Apoptosis signal-regulating kinase 1	Q99683	IP, IB, IF, GST pull-down, Trx1 mutation, enzyme activity assay, Y2H, RNAi	(152, 189, 226, 281)
cAMP-dependent protein kinase	P17612(α), P22694(β)	Enzyme activity assay, IB	(53)
Caspase 3	P42574	Enzyme activity assay, IB, FCA	(258)
CD5 antigen-like	O43866	Tg mice, IB, Trx1 mutation, 2DE, LC/MS/MS	(115)
COP9 signalosome complex subunit 5	Q92905	Y2H, GST pull-down, Co-IP, FRET	(113)
Dual specificity protein phosphatase 6	Q16828	Enzyme activity assay, HPLC, MS/MS	(240)
Estrogen receptor	P03372	EMSA, enzyme activity assay	(98)
Phosphatidylinositol-3,4,5-triphosphate 3-phosphatase and dual-specificity protein phosphatase PTEN	P60484	IP, IB, enzyme activity assay, molecular docking and mutation studies, HPLC, MS/MS	(138, 179)
POU domain, class 5, transcription factor 1	Q01860	EMSA, disulfide cross-linking, IB	(86)
Ras	P01112	Enzyme activity assay, IF, IB	(132)
Ras-specific guanine nucleotide-releasing factor 1	Q13972	Enzyme activity assay, MS/MS	(242)
T-cell surface glycoprotein CD4	P01730	Trx mutation, IB	(173)
Tumor necrosis factor receptor superfamily member 8	P28908	Trx1 mutation, FCA, IF, IB	(235)
Tyrosine-protein phosphatase non-receptor type 1	P18031	IP, enzyme activity assay	(137)
Transcription regulators			
DNA-(apurinic or apyrimidinic site) lyase (Ref-1)	P27695	Trx1 mutation, IB, Mammalian two-hybrid assay	(103)
Glucocorticoid receptor	P04150	EMSA, IF	(158)
Heat-shock factor 1	Q00613	EMSA, IB, enzyme activity assay	(117)
Histone deacetylase 4	P56524	Pull-down assays, Trx1 reduction assay, IB, MS/MS	(3)

(continued)

TABLE S1. (CONTINUED)

<i>Target proteins</i>	<i>Accession (Swiss-Prot)</i>	<i>Method</i>	<i>Reference</i>
Hypoxia-inducible factor 1 alpha	Q16665	Y2H, GST pull-down, IF	(58, 283)
Nuclear factor NF-kappa-B	P19838	IF, Trx1 mutation, pull-down assay	IB, EMSA (104, 172)
Nuclear factor erythroid 2-related factor 2	Q16236	IB, Trx1 mutation	(93)
Peroxisome proliferator-activated receptor alpha	Q07869	Mammalian one-hybrid assay, IF, RNAi, EMSA,	(150)
Runt-related transcription factor 2	Q08775	EMSA	(5)
Transcription factor Sp1	P08047	EMSA, enzyme activity assay, luciferase reporter assay	(27)
Transport/channel proteins			
ADP/ATP translocase 1	P48962	Tg mice, ICAT	(75)
Annexin A2-S100A10 heterotetramer	P07355	Enzyme activity assay, IB	(133)
Chloride intracellular channel protein 4	Q9QYB1	Tg mice, ICAT	(75)
Platelet glycoprotein 4	Q08857	Tg mice, ICAT	(75)
Sarcoplasmic/endoplasmic reticulum calcium ATPase 3	Q64518	Tg mice, ICAT	(75)
Short transient receptor potential channel C1	P48995	Electrophysiology assay, IB, enzyme activity assay, RNAi	(274)
Short transient receptor potential channel C5	Q9UL62	Electrophysiology assay, IB, enzyme activity assay, RNAi	(274)
Vasculature/iron-binding proteins			
Apolipoprotein A-I	P02647	Tg mice, IB, Trx1 mutation, 2DE, LC/MS/MS	(115)
Complement factor H	P08603	Tg mice, IB, Trx1 mutation, 2DE, LC/MS/MS	(115)
Cytoplasmic aconitate hydratase	P21399	Enzyme activity assay, EMSA	(201)
Endothelial nitric oxide synthase	P29474	Enzyme activity assay	(209)
Fibrinogen, gamma chain	P02679	Tg mice, IB, Trx1 mutation, 2DE, LC/MS/MS	(115)
Iron-responsive element-binding protein 2	P48200	Enzyme activity assay	(201)
Serotransferrin	Q92111	Tg mice, ICAT	(75)
Serum albumin	P02768	Tg mice, IB, Trx1 mutation, 2DE, LC/MS/MS	(115)

ATP, adenosine triphosphate; 2DE, 2-dimensional gel electrophoresis; Co-IP, coimmunoprecipitation; EMSA, electromobility shift assay; FAD, flavin adenine dinucleotide; FCA, flow cytometry assay; FRET, fluorescence resonance energy transfer; IB, immunoblot; ICAT, isotope-coded affinity tag; IF, immunofluorescence; IP, immunoprecipitation; LC/MS/MS, liquid chromatography/tandem mass spectrometry; NADH, nicotinic adenine dinucleotide; RNAi, RNA interference assay; Tg mice, Trx1 transgenic mice; Y2H, yeast two-hybrid assay.

SUPPLEMENTARY TABLE S2. PUTATIVE TARGETS OF THIOREDOXIN 1-MEDIATED TRANS- OR DENITROSYLATION

Target	Accession (Swiss-Prot)	Method	Reference
Transnitrosylation			
40S ribosomal protein S3	P23396	BST, LC/MS/MS	(273)
60 kDa heat shock protein, mitochondrial	P10809	BST, 2DE, MS/MS, LC/MS/MS	(273)
60S ribosomal protein L23	P62829	BST, LC/MS/MS, LC/MS/MS	(273)
78 kDa glucose-regulated protein	P11021	BST, 2DE, MS/MS	(273)
Actin, cytoplasmic 1	P60709	BST, 2DE, MS/MS	(273)
ADP/ATP translocase 3	P12236	BST, LC/MS/MS	(273)
Alpha-2-HS-glycoprotein	P02765	BST, LC/MS/MS	(273)
Alpha-actinin-4	O43707	BST, 2DE, MS/MS	(273)
Alpha-enolase	P06733	BST, 2DE, MS/MS, LC/MS/MS	(273)
Annexin A2	P07355	BST, 2DE, MS/MS, LC/MS/MS	(273)
Argininosuccinate synthase	P00966	BST, 2DE, MS/MS	(273)
ATP synthase subunit alpha, mitochondrial	P25705	BST, 2DE, MS/MS	(273)
Casp3	P42574	BST, IB, MS/MS, enzyme activity assay; ProCasp3: BST, IP, IB, Trx mutation, enzyme activity assay, isothermal calorimetry, fluorimetry assay	(184, 185, 273)
Catalase	P04040	BST, 2DE, MS/MS	(273)
Cathepsin B	P07858	BST, LC/MS/MS	(273)
Creatine kinase S-type, mitochondrial	P17540	BST, 2DE, MS/MS	(273)
Elongation factor 1-gamma	P26641	BST, 2DE, MS/MS	(273)
Elongation factor 2	P13639	BST, 2DE, MS/MS, LC/MS/MS	(273)
Elongation factor Tu, mitochondrial	P49411	BST, 2DE, MS/MS	(273)
Endothelial cell proteins		Saville-Griess assay, Trx1 mutation, IB, enzyme activity assay	(88)
Elongation factor 1-alpha 1	P68104	BST, 2DE, MS/MS, LC/MS/MS	(273)
Fascin	Q16658	BST, 2DE, MS/MS	(273)
Filamin-A	P21333	BST, LC/MS/MS	(273)
Fructose-bisphosphate aldolase A	P04075	BST, 2DE, MS/MS	(273)
Glyceraldehyde-3-phosphate dehydrogenase	P04406	BST, 2DE, MS/MS, LC/MS/MS	(273)
Heat shock 70 kDa protein 1A/1B	P08107	BST, 2DE, MS/MS	(273)
Heat shock cognate 71 kDa protein	P11142	BST, 2DE, MS/MS, LC/MS/MS	(273)
Heat shock protein HSP 90-beta	P08238	BST, 2DE, MS/MS	(273)
Heterogeneous nuclear ribonucleoproteins A2/B1	P22626	BST, LC/MS/MS	(273)
L-lactate dehydrogenase B chain	P07195	BST, LC/MS/MS	(273)
Macrophage migration inhibitory factor	P14174	BST, LC/MS/MS	(273)
Moesin	P26038	BST, 2DE, MS/MS	(273)
Peptidyl-prolyl cis-trans isomerase A	P62937	BST, LC/MS/MS	(273)
Peroxiredoxin-1	Q06830	BST, 2DE, MS/MS, LC/MS/MS	(273)
Peroxiredoxin-4	Q13162	BST, 2DE, MS/MS, LC/MS/MS	(273)
Phosphoglycerate kinase 1	P00558	BST, 2DE, MS/MS, LC/MS/MS	(273)
Poly(rC)-binding protein 1	Q15365	BST, LC/MS/MS	(273)
Protein SEC13 homolog	P55735	BST, LC/MS/MS	(273)
Pyruvate carboxylase, mitochondrial	P11498	BST, 2DE, MS/MS	(273)
Pyruvate kinase isozymes M1/M2	P14618	BST, 2DE, MS/MS, LC/MS/MS	(273)
Serpin H1	P50454	BST, 2DE, MS/MS	(273)
Serum albumin	P02768	BST, 2DE, MS/MS	(273)
Small nuclear ribonucleoprotein Sm D3	P62318	BST, LC/MS/MS	(273)
Transketolase	P29401	BST, 2DE, MS/MS, LC/MS/MS	(273)
Tubulin alpha-4A chain	P68366	BST, 2DE, MS/MS, LC/MS/MS	(273)
Tubulin, beta polypeptide,	Q5JP53	BST, 2DE, MS/MS, LC/MS/MS	(273)
Very long-chain specific acyl-CoA dehydrogenase, mitochondrial	P49748	BST, 2DE, MS/MS	(273)
Vimentin	P08670	BST, LC/MS/MS	(273)
Voltage-dependent anion-selective channel protein 2	P45880	BST, 2DE, MS/MS	(273)
Denitrosylation			
14-3-3 protein beta/alpha	P31946	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
14-3-3 protein epsilon	P62258	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)

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TABLE S2. (CONTINUED)

<i>Target</i>	<i>Accession (Swiss-Prot)</i>	<i>Method</i>	<i>Reference</i>
14-3-3 protein theta	P27348	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
26S proteasome non-ATPase regulatory subunit 2	Q8VDM4	2DE fluorescent switch, BST, MS/MS	(257)
40S ribosomal protein SA	P14206	2DE fluorescent switch, BST, MS/MS	(257)
60 kDa heat shock protein, mitochondrial precursor	P10809	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
78 kDa glucose-regulated protein	P20029	2DE fluorescent switch, BST, MS/MS	(257)
Adenylosuccinate lyase	P30566	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Albumin		ESR, potentiometric measurement, HPLC	(247)
Alpha-enolase	P06733	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Annexin A1	P04083	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Calcium-regulated heat-stable protein 1	Q9Y2V2	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Casp3	P42574	Enzyme activity assay, HPLC, Trx mutation, RNAi, MS, BST, GST pull-down, ESR, potentiometric measurement	(21, 184, 238, 247)
Casp9	P55211	Trx mutation, RNAi, MS, BST, GST pull-down	(21)
Cofilin-1	P23528	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Complement C3	P01027	2DE fluorescent switch, BST, MS/MS	(257)
Deoxyuridine 50-triphosphate nucleotidohydrolase, mitochondrial precursor	P33316	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Dihydropyrimidinase-related protein 2	Q16555	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
DnaJ homologue subfamily A member 1	P31689	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Drebrin-like protein	Q9UJU6	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Elongation factor 1-gamma	P26641	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
eNOS	P29473	IB, gel filtration, enzyme activity assay	(218)
Epoxide hydrolase 2	P34913	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Eukaryotic translation initiation factor 5A-1	P63241	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Ezrin-radixin-moesin-binding phosphoprotein 50	O14745	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
F-actin-capping protein subunit beta	P47756	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Far upstream element-binding protein 2	Q92945	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Glutaredoxin-1	P35754	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Glycyl-tRNA synthetase	P41250	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
GSNO		ESR, potentiometric measurement, HPLC	(247)
GSNO		Enzyme activity assay, HPLC	(238)
GSNO		Enzyme activity assay, HPLC	(196)
Heat shock 70 kDa protein 4	P34932	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Heat shock 70 kDa protein 4	Q61316	2DE fluorescent switch, BST, MS/MS	(257)
Heat shock cognate 71 kDa protein	P63017	2DE fluorescent switch, BST, MS/MS	(257)
HepG2 23-30 kDa proteins		Enzyme activity assay, HPLC	(238)
Heterogeneous nuclear ribonucleoprotein K	P61978	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Inosine-50-monophosphate dehydrogenase 2	P12268	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Lactoylglutathione lyase	Q04760	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Leucyl-cystinyl aminopeptidase	Q9UIQ6	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Metallothionein		ESR, potentiometric measurement, HPLC	(247)
Multifunctional protein ADE2	P22234	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Myosin light polypeptide 6	P60660	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Nuclear autoantigenic sperm protein	P49321	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Nuclear migration protein nudC	Q9Y266	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Nucleolin	P19338	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
NudC domain-containing protein 2	Q8WVJ2	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Peptidyl-prolyl cis-trans isomerase A	P62937	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
D-3-phosphoglycerate dehydrogenase	O43175	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Plasminogen activator inhibitor 1 RNA-binding protein	Q8NC51	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Plastin-2	P13796	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Proteasome activator complex subunit 2	Q9UL46	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)

(continued)

TABLE S2. (CONTINUED)

<i>Target</i>	<i>Accession (Swiss-Prot)</i>	<i>Method</i>	<i>Reference</i>
Protein ADRM1	Q16186	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Protein disulfide-isomerase	P09103	2DE fluorescent switch, BST, MS/MS	(257)
Protein disulfide-isomerase A3	P27773	2DE fluorescent switch, BST, MS/MS	(257)
Protein kinase C	P05771	Enzyme activity assay, IB, IF	(121)
Protein phosphatase 1G	O15355	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
PTP1B	P18031	Trx cysteine mutant, RNAi, MS, BST, GST pull-down assay	(21)
Putative nucleoside diphosphate kinase	P22392	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Ran-specific GTPase-activating protein	P43487	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Rap1 GTPase-GDP dissociation stimulator	P52306	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
RhoA(SNO) ₆		Enzyme activity assay, HPLC	(238)
Ribonuclease inhibitor	Q91VI7	2DE fluorescent switch, BST, MS/MS	(257)
Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A R isoform	P30153	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Sialic acid synthase	Q9NR45	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
S-nitrosohomocysteine (HcysSNO)		Enzyme activity assay, HPLC	(238)
S-nitroso-L-cysteine (CysSNO)		Enzyme activity assay, HPLC	(238)
S-nitroso-L-cysteine ethyl ester (SNCEE)		Enzyme activity assay, HPLC	(238)
T-complex protein 1 subunit beta	P78371	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Tubulin-tyrosine ligase-like protein 12	Q14166	SILAC, enzyme activity assay, BST, LC/MS/MS	(23)
Ubiquitin carboxyl-terminal hydrolase 5	P56399	2DE fluorescent switch, BST, MS/MS	(257)
Ubiquitin-like modifier-activating enzyme	Q02053	2DE fluorescent switch, BST, MS/MS	(257)

BST, biotin switch technique; Casp3, caspase 3; eNOS, endothelial nitric oxide synthase; ESR, electron spin resonance; HPLC, high performance (pressure) liquid chromatography; GSNO, nitrosoglutathione; MS/MS, tandem mass spectrometry; PTP1B, protein tyrosine phosphatase 1B; SILAC, stable isotope labeling by amino acids in cell culture.