

Supplementary Table S2. S-Guanylated Proteins in Intact Mitochondria Treated *In Vitro* with 8-Nitro-cGMP, as Identified by Means of Immunoaffinity Capture and LC-MS/MS

Acc no. ^a	Protein name	Mw ^b	pI ^c	Cys no. ^d	Peptide sequence	Ions score ^e
P63039	60 kDa heat shock protein, mitochondrial	60917	5.91	442	AAVEEGIVLGGGCALLR	64
P60711	Actin, cytoplasmic 1	41710	5.29	272	CPEALFQPSFLGMESCGIHETTFNSIMK	31
Q505J9	ATPase family AAA domain-containing protein 1	40691	6.43	137	GVLLYGPPGCGK	27
P07153	Dolichyl-diphosphooligosaccharide--protein glycosyltransferase subunit 1	68262	6.05	475	VACITEQVLTLVNK	53
P62630	Elongation factor 1-alpha 1	50082	9.1	363	NDPPMEAAGFTAQVIILNHPGQISAGYAPVLDCHTAHIACK	41
P62630	Elongation factor 1-alpha 1	50082	9.1	370	NDPPMEAAGFTAQVIILNHPGQISAGYAPVLDCHTAHIACK	41
P62630	Elongation factor 1-alpha 1	50082	9.1	411	SGDAAIVDMVPGKPMCVESFSDYPLGR	85
P04797	Glyceraldehyde-3-phosphate dehydrogenase	35805	8.14	150	IVSNASCCTTNCLAPLAK	69
P48679	Lamin-A	74279	6.54	593	TVLCGTCGQPADK	48
Q62736	Non-muscle caldesmon	60548	6.34	12	CLATLSQIAYQR	34
P37199	Nuclear pore complex protein Nup155	154904	5.84	1343	YVENPSLVLNCER	43
P62747	Rho-related GTP-binding protein RhoB	22109	5.1	20	TCLLIVFSK	31
B0BNF1	Septin-8	51220	5.74	400	ELEEETNAFNCR	47
P48721	Stress-70 protein, mitochondrial	73812	5.97	317	AKCELSSSVQTDINLPYLTMDSGPK	47
P46462	Transitional endoplasmic reticulum ATPase	89293	5.14	522	GVLFYGGPPGCGK	58
P48500	Triosephosphate isomerase	26832	6.89	21	CLGELICTLNAAK	32
P85108	Tubulin beta-2A chain	49875	4.78	12	EIVHIQAGQCGNQIGAK	33
Q4QRB4	Tubulin beta-3 chain	50386	4.82	12	EIVHIQAGQCGNQIGAK	31
P81155	Voltage-dependent anion-selective channel protein 2	31726	7.44	48	SCSGVEFSTSGSSNTDTGK	30

Q9R1Z0	Voltage-dependent anion-selective channel protein 3	30778	8.91	36	SCSGVEFSTSGHAYTDTGK	54
--------	---	-------	------	----	---------------------	----

^aSwiss-Prot accession number.

^bCalculated molecular weight.

^cCalculated pI.

^dS-Guanylated cysteine residue.

Proteins colored in red in this Table are commonly identified in 2D-SDS-PAGE/LC-MS/MS (Supplementary Table S4).