

**Supplementary Table 1:** Listing of proteins identified in global proteomics experiments with high confidence and differential expression,  $\leq / \geq 10\%$ ,  $p \leq 0.1$ , after exposure to noggin protein.

<u>RefSeq</u>	<u>IPI</u>	<u>Protein Name</u>	<u>Fold Change</u>	<u>p-value</u>	<u># of spectra utilized for quantitation</u>	<u># of unique peptides</u>	<u>% Coverage*</u>
	IPI00472102	60 kDa heat shock protein, mitochondrial precursor	0.88	0.03	144	15	42.10%
NP_002070	IPI00219029	Aspartate aminotransferase, cytoplasmic	1.14	0.08	2	2	4.61%
NP_001688	IPI00007611	ATP synthase O subunit, mitochondrial precursor	1.16	0.02	2	2	15.50%
NP_005909	IPI00291006	Malate dehydrogenase, mitochondrial precursor	0.90	0.10	41	6	24.90%
NP_006507	IPI00220194, IPI00641837	Solute carrier family 2, facilitated glucose transporter member 1	0.88	0.10	22	2	3.60%
NP_009223	IPI00296907, IPI00477729	Splice Isoform 1 of Acyl-coenzyme A oxidase 1, peroxisomal	1.27	0.02	3	2	4.39%
NP_006422	IPI00297779	T-complex protein 1, beta subunit	1.11	0.06	70	6	12.20%
NP_006421	IPI00302927	T-complex protein 1, delta subunit	1.10	0.06	23	4	8.55%
NP_001681	IPI00007682	Vacuolar ATP synthase catalytic subunit A, ubiquitous isoform	1.11	0.07	21	2	3.40%
NP_002793	IPI00011126	26S protease regulatory subunit 4	1.09	0.06	8	3	7.50%
NP_001023	IPI00182289	40S ribosomal protein S29	1.18	0.06	48	3	34.60%
NP_001001	IPI00021840	40S ribosomal protein S6	0.87	0.10	3	2	8.84%
NP_001012321	IPI00553164	40S ribosomal protein SA	1.14	0.02	20	5	28.20%
NP_000995	IPI00008529	60S acidic ribosomal protein P2	1.21	0.03	30	4	69.60%
NP_000970	IPI00215719	60S ribosomal protein L18	0.76	0.03	8	2	13.40%
NP_000678.1	IPI00646823	Adenosylhomocysteinase	1.13	0.06	9	2	3.95%
NP_004930	IPI00293655	ATP-dependent RNA helicase DDX1	1.16	0.09	6	4	2.43%
NP_006308	IPI00299024	Brain acid soluble protein 1	1.12	0.07	40	9	69.50%
NP_004359	IPI00015262, IPI00398735	Calponin-2	1.12	0.03	5	2	9.42%
NP_001312	IPI00002824	Cysteine and glycine-rich protein 2	1.14	0.08	13	2	16.10%
NP_001377	IPI00257508	Dihydropyrimidinase-related protein 2	1.17	0.09	4	4	8.92%
NP_004517	IPI00184330	DNA replication licensing factor MCM2	1.11	0.10	20	4	3.98%
NP_001378	IPI00029111	DPYSL3 protein	1.21	0.00	31	6	11.40%
NP_002746	IPI00219604	Dual specificity mitogen-activated protein kinase kinase 1	1.15	0.10	2	2	5.87%
NP_001395	IPI00000875, IPI00640222	Elongation factor 1-gamma	1.11	0.09	50	7	19.30%
NP_003741	IPI00029012	Eukaryotic translation initiation factor 3 subunit 10	1.21	0.01	4	3	2.82%
NP_001559	IPI00013068	Eukaryotic translation initiation factor 3 subunit 6	1.12	0.02	2	2	6.07%
NP_071496	IPI00014263, IPI00220894	Eukaryotic translation initiation factor 4H isoform 1	1.23	0.09	8	2	12.90%
NP_004095.4	IPI00026781	Fatty acid synthase	1.14	0.05	6	3	8.92%

\* % Coverage = the # of amino acids in all unique peptides identified with 1 % FPR divided by the total # of amino acids in the protein listed. This is the largest % coverage identified for all three search algorithm identifications.

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NP_005511.1	IPI00013881	Heterogeneous nuclear ribonucleoprotein H1	0.89	0.09	2	2	33.40%
NP_055121	IPI00550689	HSPC117 protein	1.10	0.08	29	3	6.93%
NP_001001521.1	IPI00329331	Hypothetical protein UGP2	1.12	0.03	22	5	15.80%
NP_005919	IPI00002236, IPI00334005	Lactadherin precursor	1.18	0.04	15	3	12.50%
NP_002297	IPI00465431, IPI00556088	LGALS3 protein	1.24	0.05	10	3	16.00%
NP_004981	IPI00008240	Methionyl-tRNA synthetase	1.13	0.02	17	3	5.00%
NP_060530	IPI00017283	Mitochondrial isoleucine tRNA synthetase	1.11	0.05	3	2	2.37%
NP_006443	IPI00217223	Multifunctional protein ADE2	1.18	0.01	3	2	7.10%
NP_057306	IPI00007208, IPI00643084	Probable ATP-dependent RNA helicase DDX41	1.25	0.02	2	2	5.31%
NP_004388	IPI00030320, IPI00556000	Probable ATP-dependent RNA helicase DDX6	1.13	0.09	20	4	11.00%
NP_005745	IPI00012442	Ras-GTPase-activating protein binding protein 1	1.11	0.00	87	7	23.80%
NP_005902	IPI00010157	S-adenosylmethionine synthetase gamma form	1.13	0.09	2	2	5.06%
NP_006504	IPI00220637, IPI00514587	Seryl-tRNA synthetase Splice Isoform 1 of Cullin-associated NEDD8-dissociated protein 1	1.08	0.00	7	2	4.68%
NP_060918	IPI00100160	Splice Isoform 1 of Enabled protein homolog	1.18	0.08	11	4	5.12%
NP_001008493	IPI00411623	Splice Isoform 1 of Filamin-B	1.10	0.02	15	3	6.26%
NP_001448	IPI00289334	Splice Isoform 1 of Hematological and neurological expressed 1-like protein	1.16	0.00	17	5	7.80%
NP_653171	IPI00607884	Splice Isoform 2 of WD-repeat protein 1	1.24	0.03	2	2	8.95%
NP_005103.2	IPI00216256	Splice Isoform A of Ras-GTPase-activating protein binding protein 2	1.21	0.08	6	4	9.94%
NP_036429	IPI00009057	Splice Isoform Crk-II of Proto-oncogene C-crk	1.13	0.05	10	2	4.56%
NP_058431	IPI00004838, IPI00399054 IPI00015029, IPI00479875,	Telomerase-binding protein p23	1.18	0.04	4	2	5.26%
NP_006592	IPI00656118	Thioredoxin	1.09	0.04	8	2	16.90%
NP_003320	IPI00216298	Tryptophanyl-tRNA synthetase	1.13	0.07	31	3	28.90%
NP_004175	IPI00295400	Ubiquitin carboxyl-terminal hydrolase 10	1.12	0.02	11	3	6.79%
NP_005144	IPI00291946	Ubiquitin carboxyl-terminal hydrolase isozyme L1	1.12	0.02	8	3	4.73%
NP_004172	IPI00018352	WUGSC:H RG054D04.1 protein	1.14	0.03	26	5	29.60%
NP_000962	IPI00011457, IPI00030179, IPI00398699, IPI00472171		0.88	0.08	2	2	11.70%

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