

Supplemental Table 1: Significant proteins in the CSF at day 1 post-infection by differential expression analysis

Accession	Protein	Sterile mean (log2)	Infected mean (log2)	Fold change (log2)	p value
P60711	Actin, cytoplasmic 1	0.00E+00	2.58E+00	2.58E+00	3.48E-02
P62986	Ubiquitin-60S ribosomal protein L40	0.00E+00	2.18E+00	2.18E+00	6.39E-05
P62982	Ubiquitin-40S ribosomal protein S27a	0.00E+00	2.14E+00	2.14E+00	6.39E-05
P23562	Band 3 anion transport protein	2.56E+00	4.52E+00	1.96E+00	1.47E-02
P11442	Clathrin heavy chain 1	1.35E+00	3.19E+00	1.83E+00	2.52E-02
Q62812	Myosin-9	1.19E+00	2.92E+00	1.74E+00	2.93E-02
P27139	Carbonic anhydrase 2	9.55E-01	2.65E+00	1.70E+00	2.38E-02
P46462	Transitional endoplasmic reticulum ATPase	1.98E+00	3.66E+00	1.67E+00	1.72E-02
P04762	Catalase	2.26E+00	3.93E+00	1.67E+00	3.42E-02
P35704	Peroxiredoxin-2	1.93E+00	3.54E+00	1.61E+00	9.08E-03
Q5U300	Ubiquitin-like modifier-activating enzyme 1	1.11E+00	2.70E+00	1.58E+00	4.23E-02
Q00728	Histone H2A type 4	0.00E+00	1.51E+00	1.51E+00	6.34E-05
O35567	Bifunctional purine biosynthesis protein ATIC	1.09E+00	2.51E+00	1.42E+00	3.62E-02
Q6AYZ1	Tubulin alpha-1C chain	0.00E+00	1.40E+00	1.40E+00	2.31E-04
P47967	Galectin-5	8.71E-01	2.18E+00	1.31E+00	4.50E-02
Q63716	Peroxiredoxin-1	9.76E-01	2.25E+00	1.27E+00	2.50E-02
P01946	Hemoglobin subunit alpha-1/2	5.75E+00	6.88E+00	1.12E+00	2.08E-02
P04797	Glyceraldehyde-3-phosphate dehydrogenase	2.43E+00	3.52E+00	1.09E+00	3.73E-02
P11232	Thioredoxin	2.27E-01	1.30E+00	1.07E+00	4.56E-03
P02091	Hemoglobin subunit beta-1	6.42E+00	7.39E+00	9.69E-01	4.83E-02
P14942	Glutathione S-transferase alpha-4	8.35E-02	1.02E+00	9.36E-01	2.92E-02
Q9JLT0	Myosin-10	0.00E+00	7.84E-01	7.84E-01	1.49E-02
P19468	Glutamate--cysteine ligase catalytic subunit	4.82E-01	1.21E+00	7.33E-01	2.93E-02
P29975	Aquaporin-1	0.00E+00	6.05E-01	6.05E-01	1.49E-02
Q63041	Alpha-1-macroglobulin	6.29E+00	6.86E+00	5.74E-01	4.06E-02
Q07936	Annexin A2	0.00E+00	5.26E-01	5.26E-01	5.97E-03
P35859	Insulin-like growth factor-binding protein complex acid labile subunit	0.00E+00	3.98E-01	3.98E-01	1.49E-02
P18422	Proteasome subunit alpha type-3	4.72E-02	4.27E-01	3.79E-01	4.50E-02
Q63691	Monocyte differentiation antigen CD14	0.00E+00	3.43E-01	3.43E-01	3.50E-02
P27867	Sorbitol dehydrogenase	7.77E-02	3.70E-01	2.92E-01	4.33E-02
P47942	Dihydropyrimidinase-related protein 2	0.00E+00	2.49E-01	2.49E-01	1.49E-02
P20767	Ig lambda-2 chain C region	0.00E+00	2.18E-01	2.18E-01	1.49E-02
Q68FR6	Elongation factor 1-gamma	0.00E+00	1.93E-01	1.93E-01	3.50E-02
P07943	Aldo-keto reductase family 1 member B1	0.00E+00	1.67E-01	1.67E-01	1.49E-02

D4A1R8	Copine-1	0.00E+00	1.64E-01	1.64E-01	3.50E-02
Q5HZE4	Methylthioribose-1-phosphate isomerase	0.00E+00	1.10E-01	1.10E-01	3.50E-02
Q6P6T4	Echinoderm microtubule-associated protein-like 2	0.00E+00	8.87E-02	8.87E-02	3.50E-02
Q62867	Gamma-glutamyl hydrolase	2.07E-01	0.00E+00	-2.07E-01	3.50E-02
Q5XII0	Mammalian ependymin-related protein 1	3.34E-01	0.00E+00	-3.34E-01	3.48E-02
P29534	Vascular cell adhesion protein 1	3.63E-01	0.00E+00	-3.63E-01	3.50E-02
Q63772	Growth arrest-specific protein 6	3.72E-01	0.00E+00	-3.72E-01	3.48E-02
Q00657	Chondroitin sulfate proteoglycan 4	3.77E-01	0.00E+00	-3.77E-01	1.49E-02
P50430	Arylsulfatase B	3.82E-01	0.00E+00	-3.82E-01	1.49E-02
Q1WIM3	Cell adhesion molecule 3	4.15E-01	0.00E+00	-4.15E-01	1.49E-02
Q5U367	Multifunctional procollagen lysine hydroxylase and glycosyltransferase LH3	4.15E-01	0.00E+00	-4.15E-01	3.50E-02
Q8R553	Calsyntenin-3	4.18E-01	0.00E+00	-4.18E-01	1.49E-02
P20156	Neurosecretory protein VGF	4.49E-01	0.00E+00	-4.49E-01	1.49E-02
P01346	Insulin-like growth factor II	4.54E-01	0.00E+00	-4.54E-01	3.50E-02
D3ZHP7	Serine/threonine-protein kinase ULK3	4.56E-01	0.00E+00	-4.56E-01	2.20E-03
P47853	Biglycan	4.69E-01	0.00E+00	-4.69E-01	3.50E-02
Q62935	von Willebrand factor	4.80E-01	0.00E+00	-4.80E-01	3.50E-02
O54861	Sortilin	5.10E-01	0.00E+00	-5.10E-01	3.50E-02
P08460	Nidogen-1	5.56E-01	0.00E+00	-5.56E-01	1.49E-02
Q8K4Y7	Soluble calcium-activated nucleotidase 1	5.91E-01	0.00E+00	-5.91E-01	3.50E-02
Q08420	Extracellular superoxide dismutase [Cu-Zn]	5.98E-01	0.00E+00	-5.98E-01	2.20E-03
Q91XT9	Neutral ceramidase	5.99E-01	0.00E+00	-5.99E-01	5.97E-03
D3ZTE0	Coagulation factor XII	6.09E-01	0.00E+00	-6.09E-01	2.20E-03
P18424	Phosphatidylcholine-sterol acyltransferase	6.27E-01	0.00E+00	-6.27E-01	5.94E-03
P0CC10	Leucine-rich repeat-containing protein 4B	6.48E-01	0.00E+00	-6.48E-01	1.49E-02
P35952	Low-density lipoprotein receptor	6.56E-01	0.00E+00	-6.56E-01	1.49E-02
P12346	Serotransferrin	8.19E+00	7.53E+00	-6.57E-01	3.68E-04
Q64319	Neutral and basic amino acid transport protein rBAT	6.66E-01	0.00E+00	-6.66E-01	7.47E-04
P35446	Spondin-1	6.74E-01	0.00E+00	-6.74E-01	2.20E-03
Q1WIM1	Cell adhesion molecule 4	7.65E-01	0.00E+00	-7.65E-01	1.49E-02
P50609	Fibromodulin	7.65E-01	0.00E+00	-7.65E-01	5.97E-03
Q9R0D6	Transcobalamin-2	1.42E+00	6.54E-01	-7.69E-01	3.96E-02
Q9JKS6	Protein piccolo	7.75E-01	0.00E+00	-7.75E-01	2.21E-03
Q6AYE5	Out at first protein homolog	7.90E-01	0.00E+00	-7.90E-01	5.97E-03
P15473	Insulin-like growth factor-binding protein 3	8.00E-01	0.00E+00	-8.00E-01	5.94E-03
Q6P9V9	Tubulin alpha-1B chain	8.35E-01	0.00E+00	-8.35E-01	2.21E-03
P02563	Myosin-6	8.84E-01	0.00E+00	-8.84E-01	3.50E-02
P02650	Apolipoprotein E	6.66E+00	5.76E+00	-8.99E-01	3.75E-02

Q9R1T3	Cathepsin Z	9.47E-01	0.00E+00	-9.47E-01	2.30E-04
P62632	Elongation factor 1-alpha 2	9.71E-01	0.00E+00	-9.71E-01	1.49E-02
Q63374	Neurexin-2	1.35E+00	3.53E-01	-1.00E+00	2.29E-02
Q5ZQU0	Sushi, nidogen and EGF-like domain-containing protein 1	1.01E+00	0.00E+00	-1.01E+00	2.21E-03
O35112	CD166 antigen	1.04E+00	0.00E+00	-1.04E+00	2.21E-03
Q8CHN8	Mannan-binding lectin serine protease 1	1.39E+00	2.84E-01	-1.10E+00	2.76E-02
P0C0S7	Histone H2A.Z	1.11E+00	0.00E+00	-1.11E+00	6.34E-05
O35217	Multiple inositol polyphosphate phosphatase 1	1.17E+00	0.00E+00	-1.17E+00	5.97E-03
Q9JLD2	Neuroserpin	1.57E+00	3.84E-01	-1.19E+00	3.57E-02
Q62718	Neurotrimin	1.19E+00	0.00E+00	-1.19E+00	5.97E-03
Q6IRK9	Carboxypeptidase Q	2.44E+00	1.23E+00	-1.21E+00	3.55E-02
P13941	Collagen alpha-1(III) chain	1.30E+00	0.00E+00	-1.30E+00	5.97E-03
Q6IG01	Keratin, type II cytoskeletal 1b	2.23E+00	0.00E+00	-2.23E+00	2.31E-04
P68035	Actin, alpha cardiac muscle 1	4.55E+00	0.00E+00	-4.55E+00	6.39E-05

Supplemental Table 2: Significant proteins in the CSF at day 5 post-infection by differential expression analysis

Accession	Protein	Sterile mean (log2)	Infected mean (log2)	Fold change (log2)	p value
P62630	Elongation factor 1-alpha 1	0.00E+00	1.68E+00	1.68E+00	9.29E-05
P62632	Elongation factor 1-alpha 2	0.00E+00	1.68E+00	1.68E+00	9.29E-05
Q4G091	MICAL C-terminal-like protein	0.00E+00	1.33E+00	1.33E+00	3.00E-05
P00507	Aspartate aminotransferase, mitochondrial	0.00E+00	9.28E-01	9.28E-01	3.97E-03
Q63621	Interleukin-1 receptor accessory protein	0.00E+00	9.15E-01	9.15E-01	2.65E-04
P0CC10	Leucine-rich repeat-containing protein 4B	0.00E+00	8.87E-01	8.87E-01	3.97E-03
Q6P9V9	Tubulin alpha-1B chain	0.00E+00	8.61E-01	8.61E-01	3.53E-02
P18418	Calreticulin	3.51E-01	1.14E+00	7.85E-01	1.65E-02
P00697	Lysozyme C-1	0.00E+00	7.33E-01	7.33E-01	1.79E-02
P24268	Cathepsin D	0.00E+00	6.79E-01	6.79E-01	3.97E-03
Q811M5	Complement component C6	4.37E-01	1.11E+00	6.71E-01	3.13E-02
P18424	Phosphatidylcholine-sterol acyltransferase	0.00E+00	6.65E-01	6.65E-01	8.65E-03

P30427	Plectin	0.00E+00	5.63E-01	5.63E-01	3.53E-02
P15865	Histone H1.4	0.00E+00	5.33E-01	5.33E-01	1.79E-02
Q63772	Growth arrest-specific protein 6	0.00E+00	5.10E-01	5.10E-01	1.79E-02
Q9Z1P2	Alpha-actinin-1	0.00E+00	4.98E-01	4.98E-01	8.65E-03
O08619	Coagulation factor XIII A chain	0.00E+00	4.85E-01	4.85E-01	3.53E-02
Q64604	Receptor-type tyrosine-protein phosphatase F	0.00E+00	4.78E-01	4.78E-01	1.79E-02
D3ZHA0	Filamin-C	0.00E+00	4.65E-01	4.65E-01	3.53E-02
P09330	Ribose-phosphate pyrophosphokinase 2	0.00E+00	4.59E-01	4.59E-01	3.53E-02
P47942	Dihydropyrimidinase-related protein 2	0.00E+00	3.92E-01	3.92E-01	3.53E-02
Q8K586	GTP-binding nuclear protein Ran, testis-specific isoform	2.16E-01	0.00E+00	-2.16E-01	4.42E-02
P07943	Aldo-keto reductase family 1 member B1	2.59E-01	0.00E+00	-2.59E-01	4.42E-02
O88277	Protocadherin Fat 2	2.92E-01	0.00E+00	-2.92E-01	4.42E-02
P42346	Serine/threonine-protein kinase mTOR	3.05E-01	0.00E+00	-3.05E-01	4.42E-02
Q4QRB4	Tubulin beta-3 chain	3.11E-01	0.00E+00	-3.11E-01	4.40E-02
Q6QLM7	Kinesin heavy chain isoform 5A	3.45E-01	0.00E+00	-3.45E-01	4.40E-02
Q9JKU3	Intraflagellar transport protein 172 homolog	3.96E-01	0.00E+00	-3.96E-01	4.42E-02
P60892	Ribose-phosphate pyrophosphokinase 1	4.23E-01	0.00E+00	-4.23E-01	4.42E-02
P68370	Tubulin alpha-1A chain	4.76E-01	0.00E+00	-4.76E-01	1.67E-02
P16086	Spectrin alpha chain, non-erythrocytic 1	4.91E-01	0.00E+00	-4.91E-01	1.67E-02
P04916	Retinol-binding protein 4	5.34E-01	0.00E+00	-5.34E-01	1.67E-02
Q08877	Dynamin-3	5.41E-01	0.00E+00	-5.41E-01	1.67E-02
P39052	Dynamin-2	6.56E-01	0.00E+00	-6.56E-01	1.67E-02
P20156	Neurosecretory protein VGF	6.66E-01	0.00E+00	-6.66E-01	5.98E-03
Q5PQQ8	Integrin beta-like protein 1	7.23E-01	0.00E+00	-7.23E-01	2.00E-03
P15473	Insulin-like growth factor-binding protein 3	7.54E-01	0.00E+00	-7.54E-01	5.98E-03
P60711	Actin, cytoplasmic 1	4.86E+00	4.06E+00	-8.03E-01	1.09E-02
P25236	Selenoprotein P	8.39E-01	0.00E+00	-8.39E-01	6.15E-04
P68136	Actin, alpha skeletal muscle	4.63E+00	3.17E+00	-1.46E+00	7.58E-03

Supplemental Table 3: Significant proteins in the CSF at day 28 post-infection by differential expression analysis

Accession	Protein	Sterile mean (log ₂)	Infected mean (log ₂)	Fold change (log ₂)	p value
P63269	Actin, gamma-enteric smooth muscle	0.00E+00	2.43E+00	2.43E+00	2.05E-02
P97524	Very long-chain acyl-CoA synthetase	0.00E+00	2.22E+00	2.22E+00	1.25E-03
P09117	Fructose-bisphosphate aldolase C	0.00E+00	2.15E+00	2.15E+00	1.25E-03

P14659	Heat shock-related 70 kDa protein 2	0.00E+00	2.02E+00	2.02E+00	3.45E-03
Q9JIS1	Regulating synaptic membrane exocytosis protein 2	0.00E+00	1.91E+00	1.91E+00	1.25E-03
P62982	Ubiquitin-40S ribosomal protein S27a	0.00E+00	1.71E+00	1.71E+00	1.25E-03
P16086	Spectrin alpha chain, non-erythrocytic 1	0.00E+00	1.60E+00	1.60E+00	3.45E-03
P07323	Gamma-enolase	7.41E-01	2.16E+00	1.42E+00	3.76E-02
P06685	Sodium/potassium-transporting ATPase subunit alpha-1	0.00E+00	1.41E+00	1.41E+00	4.52E-02
Q6AYZ1	Tubulin alpha-1C chain	0.00E+00	1.32E+00	1.32E+00	3.45E-03
B0LPN4	Ryanodine receptor 2	0.00E+00	1.27E+00	1.27E+00	8.73E-03
P16617	Phosphoglycerate kinase 1	0.00E+00	1.25E+00	1.25E+00	3.45E-03
P11517	Hemoglobin subunit beta-2	3.61E+00	4.77E+00	1.16E+00	4.35E-02
P54282	Voltage-dependent P/Q-type calcium channel subunit alpha-1A	0.00E+00	1.16E+00	1.16E+00	4.52E-02
Q9JKS6	Protein piccolo	0.00E+00	1.13E+00	1.13E+00	1.25E-03
P21575	Dynamin-1	0.00E+00	1.11E+00	1.11E+00	2.05E-02
Q7TMA5	Apolipoprotein B-100	0.00E+00	1.05E+00	1.05E+00	2.05E-02
Q63475	Receptor-type tyrosine-protein phosphatase N2	0.00E+00	1.03E+00	1.03E+00	2.05E-02
P55314	Complement component C8 beta chain	0.00E+00	9.65E-01	9.65E-01	8.73E-03
P48199	C-reactive protein	0.00E+00	9.18E-01	9.18E-01	2.05E-02
P15999	ATP synthase subunit alpha, mitochondrial	0.00E+00	8.55E-01	8.55E-01	4.52E-02
P10719	ATP synthase subunit beta, mitochondrial	0.00E+00	8.34E-01	8.34E-01	4.52E-02
P00507	Aspartate aminotransferase, mitochondrial	0.00E+00	7.95E-01	7.95E-01	2.05E-02
Q8CG09	Multidrug resistance-associated protein 1	0.00E+00	7.83E-01	7.83E-01	8.73E-03
Q05764	Beta-adducin	0.00E+00	7.61E-01	7.61E-01	2.05E-02
P16638	ATP-citrate synthase	0.00E+00	7.39E-01	7.39E-01	2.05E-02
P07335	Creatine kinase B-type	0.00E+00	6.32E-01	6.32E-01	4.52E-02
Q64604	Receptor-type tyrosine-protein phosphatase F	0.00E+00	5.88E-01	5.88E-01	2.05E-02
P07154	Cathepsin L1	0.00E+00	5.86E-01	5.86E-01	4.52E-02
Q66H86	Olfactomedin-like protein 1	0.00E+00	5.61E-01	5.61E-01	2.04E-02
Q9QWN8	Spectrin beta chain, non-erythrocytic 2	0.00E+00	5.47E-01	5.47E-01	4.52E-02
P09330	Ribose-phosphate pyrophosphokinase 2	0.00E+00	5.23E-01	5.23E-01	2.05E-02
Q8R491	EH domain-containing protein 3	0.00E+00	5.12E-01	5.12E-01	4.52E-02
Q5PQQ8	Integrin beta-like protein 1	0.00E+00	4.67E-01	4.67E-01	4.52E-02
Q9WTV1	Chitinase-3-like protein 1	0.00E+00	4.44E-01	4.44E-01	4.52E-02
P30427	Plectin	0.00E+00	4.28E-01	4.28E-01	2.04E-02
P48679	Prelamin-A/C	0.00E+00	3.83E-01	3.83E-01	4.52E-02
A0JPJ7	Obg-like ATPase 1	0.00E+00	3.51E-01	3.51E-01	4.52E-02
Q5FVF9	Biotinidase	0.00E+00	3.45E-01	3.45E-01	4.52E-02
P12711	Alcohol dehydrogenase class-3	0.00E+00	3.01E-01	3.01E-01	4.52E-02

P19356	Porphobilinogen deaminase	0.00E+00	2.91E-01	2.91E-01	4.50E-02
P35859	Insulin-like growth factor-binding protein complex acid labile subunit	0.00E+00	2.87E-01	2.87E-01	4.52E-02
O55096	Dipeptidyl peptidase 3	0.00E+00	2.87E-01	2.87E-01	4.52E-02
Q63347	26S proteasome regulatory subunit 7	0.00E+00	2.87E-01	2.87E-01	4.52E-02
Q6P7A9	Lysosomal alpha-glucosidase	5.59E-01	0.00E+00	-5.59E-01	2.56E-02
P0C0K7	Ephrin type-B receptor 6	6.40E-01	0.00E+00	-6.40E-01	2.56E-02
P04276	Vitamin D-binding protein	6.20E+00	5.54E+00	-6.63E-01	2.74E-02
Q5U367	Multifunctional procollagen lysine hydroxylase and glycosyltransferase LH3	6.71E-01	0.00E+00	-6.71E-01	2.56E-02
P14562	Lysosome-associated membrane glycoprotein 1	7.11E-01	0.00E+00	-7.11E-01	2.56E-02
Q68FS4	Cytosol aminopeptidase	7.12E-01	0.00E+00	-7.12E-01	2.56E-02
Q925N6	Immunoglobulin superfamily member 1	3.21E+00	2.49E+00	-7.13E-01	2.46E-02
P25304	Agrin	7.20E-01	0.00E+00	-7.20E-01	2.56E-02
P49432	Pyruvate dehydrogenase E1 component subunit beta, mitochondrial	7.90E-01	0.00E+00	-7.90E-01	2.56E-02
Q8K4Y7	Soluble calcium-activated nucleotidase 1	8.44E-01	0.00E+00	-8.44E-01	2.56E-02
Q63132	Proto-oncogene tyrosine-protein kinase ROS	8.60E-01	0.00E+00	-8.60E-01	2.56E-02
Q6P6T1	Complement C1s subcomponent	2.03E+00	1.14E+00	-8.94E-01	3.64E-02
P10960	Prosaposin	3.96E+00	2.98E+00	-9.75E-01	3.72E-02
A9UMV8	Histone H2A.J	1.08E+00	0.00E+00	-1.08E+00	3.51E-03
P02764	Alpha-1-acid glycoprotein	3.08E+00	1.98E+00	-1.10E+00	4.53E-02
P55067	Neurocan core protein	1.20E+00	0.00E+00	-1.20E+00	3.51E-03
P70490	Lactadherin	2.51E+00	1.24E+00	-1.27E+00	6.80E-03
O35568	EGF-containing fibulin-like extracellular matrix protein 1	3.50E+00	2.21E+00	-1.29E+00	2.47E-02
P47971	Neuronal pentraxin-1	1.31E+00	0.00E+00	-1.31E+00	3.51E-03
P15800	Laminin subunit beta-2	2.85E+00	1.52E+00	-1.33E+00	1.60E-02
D3ZTE0	Coagulation factor XII	2.33E+00	9.91E-01	-1.34E+00	4.81E-03
P62630	Elongation factor 1-alpha 1	1.54E+00	0.00E+00	-1.54E+00	3.51E-03
P62632	Elongation factor 1-alpha 2	1.56E+00	0.00E+00	-1.56E+00	3.51E-03
Q6TQE1	Zinc finger CCCH domain-containing protein 18	1.63E+00	0.00E+00	-1.63E+00	1.14E-03
Q9WU06	Advillin	1.93E+00	0.00E+00	-1.93E+00	3.51E-03