TABLE 6: TBI patients and control subjects CSF proteomes

Trauma-released after astrocyte stretch-injury[1].
Two-fold or more astrocyte-enriched proteins[2].
Trauma-released and two-fold or more astrocyte-enriched proteins.
Italics Proteins are present in healthy plasma[3, 4].

	Accession	Protein Name
TBI only CSF proteins	O94760	N(G),N(G)-dimethylarginine dimethylaminohydrolase 1
	P11142	*Heat shock cognate 71 kDa protein*
	P18206	*Vinculin*
	P15104	Glutamine synthetase (GS) (EC 6.3.1.2)
	P12277	*Creatine kinase B-type*
	Q06830	*Peroxiredoxin-1*
	P31946	*14-3-3 protein beta/alpha*
	P62258	*14-3-3 protein epsilon*
	P61981	*14-3-3 protein gamma*
	P63104	*14-3-3 protein zeta/delta*
	P23528	*Cofilin-1*
	O75874	*Isocitrate dehydrogenase cytoplasmic*
	P00558	*Phosphoglycerate kinase 1*
	P13796	*Plastin-2*
	P67936	*Tropomyosin alpha-4 chain*
	Q13885	*Tubulin beta-2A chain*
	P27348	14-3-3 protein theta
	Q16555	Dihydropyrimidinase-related protein 2
	P21333	Filamin-A
	Q12765	Secernin-1
	P06753	Tropomyosin alpha-3 chain
	P14136	*Glial fibrillary acidic protein*
	P30041	*Peroxiredoxin-6*
	P08670	*Vimentin*
	P80108	*Phosphatidylinositol-glycan-specific phospholipase D*
	P00491	*Purine nucleoside phosphorylase*
	P25713	Metallothionein-3
	P00918	*Carbonic anhydrase 2*
	Q01469	*Fatty acid-binding protein, epidermal*
	P30043	*Flavin reductase*
	Q06033	*Inter-alpha-trypsin inhibitor heavy chain H3*
	P02545	*Prelamin-A/C*
	P26447	*Protein S100-A4*
	P09382	Galectin-1
	P09429	High mobility group protein B1
	P26583	High mobility group protein B2
	P18669	*Phosphoglycerate mutase 1*
	Q71U36	Tubulin alpha-1A chain
	P04040	*Catalase*
	P21291	*Cysteine and glycine-rich protein 1*
	P26038	*Moesin*
	P06703	*Protein S100-A6*
	P28799	Granulins
	P54652	Heat shock-related 70 kDa protein 2
	P35998	*26S protease regulatory subunit 7*

TBI only CSF proteins

P68032	*Actin, alpha cardiac muscle 1*
P63261	*Actin, cytoplasmic 2*
P00568	*Adenylate kinase isoenzyme 1*
Q01518	*Adenylyl cyclase-associated protein 1*
P12814	*Alpha-actinin-1*
P04083	*Annexin A1*
P04114	*Apolipoprotein B-100*
P02655	*Apolipoprotein C-II*
Q13790	*Apolipoprotein F*
O14791	*Apolipoprotein L1*
O95445	*Apolipoprotein M*
P08519	*Apolipoprotein(a)*
P07738	*Bisphosphoglycerate mutase*
P04003	*C4b-binding protein alpha chain*
P20851	*C4b-binding protein beta chain*
P05937	*Calbindin*
P00915	*Carbonic anhydrase 1*
P16152	*Carbonyl reductase*
P15169	*Carboxypeptidase N catalytic chain*
P22792	*Carboxypeptidase N subunit 2*
P49913	*Cathelicidin antimicrobial peptide*
O43866	*CD5 antigen-like*
P06276	*Cholinesterase*
P00740	*Coagulation factor IX*
P05160	*Coagulation factor XIII B chain*
P02745	*Complement C1q subcomponent subunit A*
P31146	*Coronin-1A*
P02741	*C-reactive protein*
P06732	*Creatine kinase M-type*
P13716	*Delta-aminolevulinic acid dehydratase*
P81605	*Dermcidin*
P15090	*Fatty acid-binding protein, adipocyte*
P02792	*Ferritin light chain*
Q9UGM5	*Fetuin-B*
O75636	*Ficolin-3*
P05062	*Fructose-bisphosphate aldolase B*
P06744	*Glucose-6-phosphate isomerase*
P35754	*Glutaredoxin-1*
P78417	*Glutathione S-transferase omega-1*
P09211	*Glutathione S-transferase P*
P69891	*Hemoglobin subunit gamma-1*
P26927	*Hepatocyte growth factor-like protein*
P10412	*Histone H1.4*
P16401	*Histone H1.5*
P62805	*Histone H4*
Q86YZ3	*Hornerin*
Q14520	*Hyaluronan-binding protein 2*
P01591	*Immunoglobulin J chain*
P02533	*Keratin, type I cytoskeletal 14*
P35908	*Keratin, type II cytoskeletal 2 epidermal*
P13647	*Keratin, type II cytoskeletal 5*
P02788	*Lactotransferrin*
P30740	*Leukocyte elastase inhibitor*
P18428	*Lipopolysaccharide-binding protein*

TBI only CSF proteins

P00338	*L-lactate dehydrogenase A chain*
P14151	*L-selectin*
Q9Y5Y7	*Lymphatic vessel endothelial hyaluronic acid receptor 1*
P14174	*Macrophage migration inhibitory factor*
P14780	*Matrix metalloproteinase-9*
P11137	*Microtubule-associated protein 2*
P19105	*Myosin regulatory light chain 12A*
P12882	*Myosin-1*
P12883	*Myosin-7*
P35579	*Myosin-9*
P59665	*Neutrophil defensin 1*
P80188	*Neutrophil gelatinase-associated lipocalin*
P30044	*Peroxiredoxin-5, mitochondrial*
P02775	*Platelet basic protein*
P02776	*Platelet factor 4*
P20742	*Pregnancy zone protein*
P07737	*Profilin-1*
P27918	*Properdin*
P25786	*Proteasome subunit alpha type-1*
P28072	*Proteasome subunit beta type-6*
P05109	*Protein S100-A8*
Q9UK55	*Protein Z-dependent protease inhibitor*
Q92954	*Proteoglycan 4*
P31150	*Rab GDP dissociation inhibitor alpha*
P52565	*Rho GDP-dissociation inhibitor 1*
P52566	*Rho GDP-dissociation inhibitor 2*
P0DJI8	*Serum amyloid A-1 protein*
P0DJI9	*Serum amyloid A-2 protein*
P02743	*Serum amyloid P-component*
P04278	*Sex hormone-binding globulin*
Q9H299	*SH3 domain-binding glutamic acid-rich-like protein 3*
P10599	*Thioredoxin*
P07996	*Thrombospondin-1*
P62328	*Thymosin beta-4*
P37837	*Transaldolase*
P29401	*Transketolase*
P68363	*Tubulin alpha-1B chain*
P68366	*Tubulin alpha-4A chain*
P07437	*Tubulin beta chain*
P68371	*Tubulin beta-4B chain*
P09936	*Ubiquitin carboxyl-terminal hydrolase isozyme L1*
P04275	*von Willebrand factor*
P61604	10 kDa heat shock protein, mitochondrial
P62191	26S protease regulatory subunit 4
P17980	26S protease regulatory subunit 6A
P43686	26S protease regulatory subunit 6B
P62195	26S protease regulatory subunit 8
Q13200	26S proteasome non-ATPase regulatory subunit 2
P51665	26S proteasome non-ATPase regulatory subunit 7
P52209	6-phosphogluconate dehydrogenase, decarboxylating
P00325	Alcohol dehydrogenase 1B
Q9NZD4	Alpha-hemoglobin-stabilizing protein
P20160	Azurocidin
P02730	Band 3 anion transport protein

TBI only CSF proteins

Q562R1	Beta-actin-like protein 2
Q13938	Calcyphosin
P62158	Calmodulin
P08311	Cathepsin G
P29762	Cellular retinoic acid-binding protein 1
Q15782	Chitinase-3-like protein 2
O43405	Cochlin
P32320	Cytidine deaminase
P19957	Elafin
P12724	Eosinophil cationic protein
P02794	Ferritin heavy chain
Q05315	Galectin-10
P00739	Haptoglobin-related protein
P0DMV8	Heat shock 70 kDa protein 1A
P08238	Heat shock protein HSP 90-beta
P69892	Hemoglobin subunit gamma-2
Q14103	Heterogeneous nuclear ribonucleoprotein D0
P22492	Histone H1t
P20671	Histone H2A type 1-D
O60814	Histone H2B type 1-K
P68431	Histone H3.1
P01877	Ig alpha-2 chain C region
P01880	Ig delta chain C region
P01743	Ig heavy chain V-I region HG3
P23083	Ig heavy chain V-I region V35
P06331	Ig heavy chain V-II region ARH-77
P01824	Ig heavy chain V-II region WAH
P01769	Ig heavy chain V-III region GA
P01762	Ig heavy chain V-III region TRO
P01779	Ig heavy chain V-III region TUR
P01594	Ig kappa chain V-I region AU
P01604	Ig kappa chain V-I region Kue
P01605	Ig kappa chain V-I region Lay
P01608	Ig kappa chain V-I region Roy
P01610	Ig kappa chain V-I region WEA
P01611	Ig kappa chain V-I region Wes
P01616	Ig kappa chain V-II region MIL
P04206	Ig kappa chain V-III region GOL
P06311	Ig kappa chain V-III region IARC/BL41
P01624	Ig kappa chain V-III region POM
P01623	Ig kappa chain V-III region WOL
P04211	Ig lambda chain V region 4A
P01701	Ig lambda chain V-I region NEW
P01702	Ig lambda chain V-I region NIG-64
P04208	Ig lambda chain V-I region WAH
P06889	Ig lambda chain V-IV region MOL
A0M8Q6	Ig lambda-7 chain C region
P04220	Ig mu heavy chain disease protein
P09960	Leukotriene A-4 hydrolase
P08637	Low affinity immunoglobulin gamma Fc region receptor III-A
Q9BZG9	Ly-6/neurotoxin-like protein 1
P40121	Macrophage-capping protein
P08493	Matrix Gla protein
P02686	Myelin basic protein

TBI only CSF proteins	P20916	Myelin-associated glycoprotein
	P24158	Myeloblastin
	P05164	Myeloperoxidase
	P60660	Myosin light polypeptide 6
	P29966	Myristoylated alanine-rich C-kinase substrate
	P22894	Neutrophil collagenase
	P59666	Neutrophil defensin 3
	P08246	Neutrophil elastase
	P10153	Non-secretory ribonuclease
	P20472	Parvalbumin alpha
	O75594	Peptidoglycan recognition protein 1
	P15259	Phosphoglycerate mutase 2
	P0CG48	Polyubiquitin-C
	P31949	Protein S100-A11
	P80511	Protein S100-A12
	P04271	Protein S100-B
	P48539	Purkinje cell protein 4
	P48741	Putative heat shock 70 kDa protein 7
	Q9HD89	Resistin
	P63313	Thymosin beta-10
	P07951	Tropomyosin beta chain
	Q13509	Tubulin beta-3 chain
	P04350	Tubulin beta-4A chain
	Q9BW30	Tubulin polymerization-promoting protein family member 3
	Q9Y279	V-set and immunoglobulin domain-containing protein 4
TBI & Control CSF proteins	*P02649*	*Apolipoprotein E*
	P10909	*Clusterin*
	P09972	Fructose-bisphosphate aldolase C
	P60709	*Actin, cytoplasmic 1*
	P07195	*L-lactate dehydrogenase B chain*
	P13645	*Keratin, type I cytoskeletal 10*
	P00441	*Superoxide dismutase*
	P06733	*Alpha-enolase*
	P06396	*Gelsolin*
	P19823	*Inter-alpha-trypsin inhibitor heavy chain H2*
	P30086	*Phosphatidylethanolamine-binding protein 1*
	P04075	*Fructose-bisphosphate aldolase A*
	P40925	*Malate dehydrogenase, cytoplasmic*
	P32119	*Peroxiredoxin-2*
	P04406	*Glyceraldehyde-3-phosphate dehydrogenase*
	P00751	Complement factor B
	P62937	Peptidyl-prolyl cis-trans isomerase A
	P01023	*Alpha-2-macroglobulin*
	P01019	*Angiotensinogen*
	P16070	*CD44 antigen*
	P0C0L5	*Complement C4-B*
	P01034	*Cystatin-C*
	Q12805	*EGF-containing fibulin-like extracellular matrix protein 1*
	P18065	*Insulin-like growth factor-binding protein 2*
	P36955	*Pigment epithelium-derived factor*
	Q13228	*Selenium-binding protein 1*
	Q14515	*SPARC-like protein 1*
	P19320	*Vascular cell adhesion protein 1*

	P36222	Chitinase-3-like protein 1
	Q9UBP4	Dickkopf-related protein 3
	O14594	Neurocan core protein
	O00584	Ribonuclease T2
	O14498	Immunoglobulin superfamily containing leucine-rich repeat protein
	P01871	Ig mu chain C region
	P06681	*Complement C2*
	P07108	Acyl-CoA-binding protein
	P07225	*Vitamin K-dependent protein S*
	P08294	*Extracellular superoxide dismutase*
	P09486	*SPARC*
	P12259	*Coagulation factor V*
	P13473	*Lysosome-associated membrane glycoprotein 2*
	P17900	Ganglioside GM2 activator
	P19022	*Cadherin-2*
	P43251	*Biotinidase*
	P49908	*Selenoprotein P*
	P78324	Tyrosine-protein phosphatase non-receptor type substrate 1
	Q08380	*Galectin-3-binding protein*
	Q12841	Follistatin-related protein 1
	Q13449	Limbic system-associated membrane protein
	Q13740	*CD166 antigen*
	Q14118	*Dystroglycan*
	Q8WXD2	*Secretogranin-3*
	Q96GW7	*Brevican core protein*
	Q9P121	Neurotrimin
TBI & Control CSF proteins	*P02768*	*Serum albumin*
	P02787	*Serotransferrin*
	P01024	*Complement C3*
	P00450	*Ceruloplasmin*
	P01008	*Antithrombin-III*
	P00738	*Haptoglobin*
	P02656	*Apolipoprotein C-III*
	P02790	*Hemopexin*
	P07339	*Cathepsin D*
	P07602	Prosaposin
	P07858	Cathepsin B
	P08571	*Monocyte differentiation antigen CD14*
	P08697	*Alpha-2-antiplasmin*
	P09871	*Complement C1s subcomponent*
	P13591	*Neural cell adhesion molecule 1*
	P16870	Carboxypeptidase E
	P23142	Fibulin-1
	P43652	*Afamin*
	P61769	*Beta-2-microglobulin*
	Q12907	*Vesicular integral-membrane protein VIP36*
	P02763	*Alpha-1-acid glycoprotein 1*
	P19652	*Alpha-1-acid glycoprotein 2*
	P01011	*Alpha-1-antichymotrypsin*
	P01009	*Alpha-1-antitrypsin*
	P04217	*Alpha-1B-glycoprotein*
	P02765	*Alpha-2-HS-glycoprotein*
	P02647	*Apolipoprotein A-I*
	P02652	*Apolipoprotein A-II*

TBI & Control CSF proteins

P06727	*Apolipoprotein A-IV*
P02654	*Apolipoprotein C-I*
P05090	*Apolipoprotein D*
P17174	*Aspartate aminotransferase, cytoplasmic*
O75882	*Attractin*
P98160	*Basement membrane-specific heparan sulfate proteoglycan core protein*
P02749	*Beta-2-glycoprotein 1*
Q96KN2	*Beta-Ala-His dipeptidase*
P55290	*Cadherin-13*
O94985	*Calsyntenin-1*
Q96IY4	*Carboxypeptidase B2*
Q9NQ79	*Cartilage acidic protein 1*
P43121	*Cell surface glycoprotein MUC18*
P00742	*Coagulation factor X*
P00748	*Coagulation factor XII*
P02452	*Collagen alpha-1*
P08123	*Collagen alpha-2*
P02746	*Complement C1q subcomponent subunit B*
P02747	*Complement C1q subcomponent subunit C*
P00736	*Complement C1r subcomponent*
Q9NZP8	*Complement C1r subcomponent-like protein*
P0C0L4	*Complement C4-A*
P01031	*Complement C5*
P13671	*Complement component C6*
P10643	*Complement component C7*
P07357	*Complement component C8 alpha chain*
P07358	*Complement component C8 beta chain*
P07360	*Complement component C8 gamma chain*
P02748	*Complement component C9*
P00746	*Complement factor D*
P08603	*Complement factor H*
Q03591	*Complement factor H-related protein 1*
P36980	*Complement factor H-related protein 2*
P05156	*Complement factor I*
P08185	*Corticosteroid-binding globulin*
Q16610	*Extracellular matrix protein 1*
P02671	*Fibrinogen alpha chain*
P02675	*Fibrinogen beta chain*
P02679	*Fibrinogen gamma chain*
P02751	*Fibronectin*
P09104	*Gamma-enolase*
P22352	*Glutathione peroxidase 3*
P69905	*Hemoglobin subunit alpha*
P68871	*Hemoglobin subunit beta*
P02042	*Hemoglobin subunit delta*
P05546	*Heparin cofactor 2*
P04196	*Histidine-rich glycoprotein*
P16403	*Histone H1.2*
P22692	*Insulin-like growth factor-binding protein 4*
P24592	*Insulin-like growth factor-binding protein 6*
Q16270	*Insulin-like growth factor-binding protein 7*
P35858	*Insulin-like growth factor-binding protein complex acid labile subunit*
P19827	*Inter-alpha-trypsin inhibitor heavy chain H1*
Q14624	*Inter-alpha-trypsin inhibitor heavy chain H4*

P29622	*Kallistatin*
P35527	*Keratin, type I cytoskeletal 9*
P04264	*Keratin, type II cytoskeletal 1*
P01042	*Kininogen-1*
P02750	*Leucine-rich alpha-2-glycoprotein*
P51884	*Lumican*
P61626	*Lysozyme C*
P07333	*Macrophage colony-stimulating factor 1 receptor*
P01033	*Metalloproteinase inhibitor 1*
P20774	*Mimecan*
P02144	*Myoglobin*
Q96PD5	*N-acetylmuramoyl-L-alanine amidase*
O15394	*Neural cell adhesion molecule 2*
O00533	*Neural cell adhesion molecule L1-like protein*
P55058	*Phospholipid transfer protein*
P03952	*Plasma kallikrein*
P05155	*Plasma protease C1 inhibitor*
P05154	*Plasma serine protease inhibitor*
P00747	*Plasminogen*
Q15113	*Procollagen C-endopeptidase enhancer 1*
P41222	*Prostaglandin-H2 D-isomerase*
P02760	*Protein AMBP*
Q99497	*Protein deglycase DJ-1*
P06702	*Protein S100-A9*
P00734	*Prothrombin*
P14618	*Pyruvate kinase PKM*
P02753	*Retinol-binding protein 4*
P07998	*Ribonuclease pancreatic*
Q86VB7	*Scavenger receptor cysteine-rich type 1 protein M130*
P35542	*Serum amyloid A-4 protein*
P27169	*Serum paraoxonase/arylesterase 1*
O00391	*Sulfhydryl oxidase 1*
P22105	*Tenascin-X*
P05452	*Tetranectin*
P05543	*Thyroxine-binding globulin*
Q15582	*Transforming growth factor-beta-induced protein ig-h3*
P02766	*Transthyretin*
P60174	*Triosephosphate isomerase*
P02774	*Vitamin D-binding protein*
P04004	*Vitronectin*
P54289	*Voltage-dependent calcium channel subunit alpha-2/delta-1*
P25311	*Zinc-alpha-2-glycoprotein*
P63267	Actin, gamma-enteric smooth muscle
P05067	Amyloid beta A4 protein
P51693	Amyloid-like protein 1
O43505	Beta-1,4-glucuronyltransferase 1
P80723	Brain acid soluble protein 1
P07711	Cathepsin L1
P13987	CD59 glycoprotein
Q8TCZ2	CD99 antigen-like protein 2
Q8N126	Cell adhesion molecule 3
Q8NFZ8	Cell adhesion molecule 4
P10645	Chromogranin-A
P12109	Collagen alpha-1 chain

TBI & Control CSF proteins

TBI & Control CSF proteins

Q12860	Contactin-1
Q9P0K1	Disintegrin and metalloproteinase domain-containing protein 22
Q13822	Ectonucleotide pyrophosphatase/phosphodiesterase family member 2
O94919	Endonuclease domain-containing 1 protein
P54764	Ephrin type-A receptor 4
P61916	Epididymal secretory protein E1
Q96KK5	Histone H2A type 1-H
P01876	Ig alpha-1 chain C region
P01857	Ig gamma-1 chain C region
P01859	Ig gamma-2 chain C region
P01860	Ig gamma-3 chain C region
P01861	Ig gamma-4 chain C region
P01764	Ig heavy chain V-III region 23
P01766	Ig heavy chain V-III region BRO
P01767	Ig heavy chain V-III region BUT
P01768	Ig heavy chain V-III region CAM
P01781	Ig heavy chain V-III region GAL
P01765	Ig heavy chain V-III region TIL
P01834	Ig kappa chain C region
P01593	Ig kappa chain V-I region AG
P01597	Ig kappa chain V-I region DEE
P01598	Ig kappa chain V-I region EU
P01613	Ig kappa chain V-I region Ni
P01606	Ig kappa chain V-I region OU
P01617	Ig kappa chain V-II region TEW
P01619	Ig kappa chain V-III region B6
P04207	Ig kappa chain V-III region CLL
P01620	Ig kappa chain V-III region SIE
P04433	Ig kappa chain V-III region VG
P04434	Ig kappa chain V-III region VH
P01625	Ig kappa chain V-IV region Len
P80748	Ig lambda chain V-III region LOI
P01714	Ig lambda chain V-III region SH
P0CG04	Ig lambda-1 chain C regions
P0CG05	Ig lambda-2 chain C regions
P0CG06	Ig lambda-3 chain C regions
Q9Y6R7	IgGFc-binding protein
B9A064	Immunoglobulin lambda-like polypeptide 5
P01344	Insulin-like growth factor II
Q92876	Kallikrein-6
O94772	Lymphocyte antigen 6H
P04156	Major prion protein
P41271	Neuroblastoma suppressor of tumorigenicity 1
P05408	Neuroendocrine protein 7B2
Q92823	Neuronal cell adhesion molecule
O95502	Neuronal pentraxin receptor
O15240	Neurosecretory protein VGF
Q02818	Nucleobindin-1
P10451	Osteopontin
Q96FE7	Phosphoinositide-3-kinase-interacting protein 1
Q9H3G5	Probable serine carboxypeptidase CPVL
Q9UHG2	ProSAAS
Q92520	Protein FAM3C
Q99435	Protein kinase C-binding protein NELL2

	P05060	Secretogranin-1
	P13521	Secretogranin-2
	O75326	Semaphorin-7A
	Q5TFQ8	Signal-regulatory protein beta-1 isoform 3
	P04216	Thy-1 membrane glycoprotein
	P13611	Versican core protein
	Q8TAG5	V-set and transmembrane domain-containing protein 2A
	Q8TEU8	WAP, Kazal, immunoglobulin, Kunitz and NTR domain-containing protein 2
Healthy CSF proteins only	*P11021*	*78 kDa glucose-regulated protein*
	P24593	*Insulin-like growth factor-binding protein 5*
	Q08431	*Lactadherin*
	P04180	*Phosphatidylcholine-sterol acyltransferase*
	Q06481	Amyloid-like protein 2
	Q16620	BDNF/NT-3 growth factors receptor
	P11362	Fibroblast growth factor receptor 1
	P22304	Iduronate 2-sulfatase
	Q86UX2	Inter-alpha-trypsin inhibitor heavy chain H5
	Q96KG7	Multiple epidermal growth factor-like domains protein 10
	P23471	Receptor-type tyrosine-protein phosphatase zeta
	Q9NPR2	Semaphorin-4B
	O14773	Tripeptidyl-peptidase 1
	P30530	Tyrosine-protein kinase receptor UFO
	Q99969	*Retinoic acid receptor responder protein 2*
	P26992	Ciliary neurotrophic factor receptor subunit alpha
	O95967	EGF-containing fibulin-like extracellular matrix protein 2
	P21802	Fibroblast growth factor receptor 2
	P98095	Fibulin-2
	Q8NBJ4	Golgi membrane protein 1
	P21246	Pleiotrophin
	O15031	Plexin-B2
	P51888	Prolargin
	O60883	Prosaposin receptor GPR37L1
	O75711	Scrapie-responsive protein 1
	Q9Y646	*Carboxypeptidase Q*
	Q01459	*Di-N-acetylchitobiase*
	P40189	*Interleukin-6 receptor subunit beta*
	Q92859	*Neogenin*
	Q6UX71	*Plexin domain-containing protein 2*
	P23470	*Receptor-type tyrosine-protein phosphatase gamma*
	O60241	Adhesion G protein-coupled receptor B2
	P49641	Alpha-mannosidase 2x
	P55283	Cadherin-4
	Q9BY67	Cell adhesion molecule 1
	Q9Y287	Integral membrane protein 2B
	Q9HCB6	Spondin-1
	P08253	*72 kDa type IV collagenase*
	P27797	*Calreticulin*
	P02461	*Collagen alpha-1 chain*
	P12111	*Collagen alpha-3 chain*
	P14625	*Endoplasmin*
	Q9UBQ6	*Exostosin-like 2*
	P14314	*Glucosidase 2 subunit beta*
	O75144	*ICOS ligand*
	P33908	*Mannosyl-oligosaccharide 1,2-alpha-mannosidase IA*

Healthy CSF proteins only

P16035	*Metalloproteinase inhibitor 2*
Q7Z7M0	*Multiple epidermal growth factor-like domains protein 8*
P32004	*Neural cell adhesion molecule L1*
P14543	*Nidogen-1*
P23515	*Oligodendrocyte-myelin glycoprotein*
Q6UXB8	*Peptidase inhibitor 16*
P23284	*Peptidyl-prolyl cis-trans isomerase B*
Q96S96	*Phosphatidylethanolamine-binding protein 4*
Q96NZ9	*Proline-rich acidic protein 1*
Q9NYQ8	*Protocadherin Fat 2*
P23468	*Receptor-type tyrosine-protein phosphatase delta*
Q13332	*Receptor-type tyrosine-protein phosphatase S*
P34096	*Ribonuclease 4*
Q9Y6N7	*Roundabout homolog 1*
Q8WZ42	*Titin*
Q24JP5	*Transmembrane protein 132A*
Q9BRK5	45 kDa calcium-binding protein
O94910	Adhesion G protein-coupled receptor L1
O00468	Agrin
P07686	Beta-hexosaminidase subunit beta
Q9BQT9	Calsyntenin-3
Q8N3J6	Cell adhesion molecule 2
Q99674	Cell growth regulator with EF hand domain protein 1
Q6UW01	Cerebellin-3
Q16568	Cocaine- and amphetamine-regulated transcript protein
P39060	Collagen alpha-1 chain
P08174	Complement decay-accelerating factor
Q02246	Contactin-2
Q9C0A0	Contactin-associated protein-like 4
P07585	Decorin
P09417	Dihydropteridine reductase
P52799	Ephrin-B2
O94769	Extracellular matrix protein 2
Q8IWU5	Extracellular sulfatase Sulf-2
Q9UBX5	Fibulin-5
P14207	Folate receptor beta
Q6MZW2	Follistatin-related protein 4
O00451	GDNF family receptor alpha-2
P48058	Glutamate receptor 4
Q16769	Glutaminyl-peptide cyclotransferase
Q9Y2T3	Guanine deaminase
Q8IZP7	Heparan-sulfate 6-O-sulfotransferase 3
P18136	Ig kappa chain V-III region HIC
P01622	Ig kappa chain V-III region Ti
Q969P0	Immunoglobulin superfamily member 8
Q9NX62	Inositol monophosphatase 3
Q9UMF0	Intercellular adhesion molecule 5
O43291	Kunitz-type protease inhibitor 2
Q8N2S1	Latent-transforming growth factor beta-binding protein 4
Q9NT99	Leucine-rich repeat-containing protein 4B
P42785	Lysosomal Pro-X carboxypeptidase
P09603	Macrophage colony-stimulating factor 1
P22897	Macrophage mannose receptor 1
P55083	Microfibril-associated glycoprotein 4

Healthy CSF proteins only	Q16653	Myelin-oligodendrocyte glycoprotein
	Q9NY97	N-acetyllactosaminide beta-1,3-N-acetylglucosaminyltransferase 2
	Q9ULB1	Neurexin-1
	Q9P2S2	Neurexin-2
	Q9Y4C0	Neurexin-3
	Q9NPD7	Neuritin
	O94856	Neurofascin
	Q7Z3B1	Neuronal growth regulator 1
	Q15818	Neuronal pentraxin-1
	P47972	Neuronal pentraxin-2
	Q5BLP8	Neuropeptide-like protein C4orf48
	Q99574	Neuroserpin
	Q14112	Nidogen-2
	Q14982	Opioid-binding protein/cell adhesion molecule
	Q99983	Osteomodulin
	P19021	Peptidyl-glycine alpha-amidating monooxygenase
	P01127	Platelet-derived growth factor subunit B
	Q9NZ53	Podocalyxin-like protein 2
	P01210	Proenkephalin-A
	Q5FWE3	Proline-rich transmembrane protein 3
	P01303	Pro-neuropeptide Y
	O15354	Prosaposin receptor GPR37
	O60888	Protein CutA
	P48745	Protein NOV homolog
	Q8WZA1	Protein O-linked-mannose beta-1,2-N-acetylglucosaminyltransferase 1
	Q9Y5F6	Protocadherin gamma-C5
	C9JVW0	Putative transmembrane protein INAFM1
	Q92932	Receptor-type tyrosine-protein phosphatase N2
	Q16849	Receptor-type tyrosine-protein phosphatase-like N
	P78509	Reelin
	O75787	Renin receptor
	Q9BZR6	Reticulon-4 receptor
	Q6NW40	RGM domain family member B
	Q93091	Ribonuclease K6
	Q9BYH1	Seizure 6-like protein
	Q6UXD5	Seizure 6-like protein 2
	Q53EL9	Seizure protein 6 homolog
	Q96PX8	SLIT and NTRK-like protein 1
	Q8WVQ1	Soluble calcium-activated nucleotidase 1
	Q9H4F8	SPARC-related modular calcium-binding protein 1
	O60279	Sushi domain-containing protein 5
	Q08629	Testican-1
	Q92563	Testican-2
	O43493	Trans-Golgi network integral membrane protein 2
	O75509	Tumor necrosis factor receptor superfamily member 21
	Q6UX73	UPF0764 protein C16orf89
	Q9UPU3	VPS10 domain-containing receptor SorCS3
	A6NLU5	V-set and transmembrane domain-containing protein 2B
	Q15904	V-type proton ATPase subunit S1
	Q9ULF5	Zinc transporter ZIP10

LEGEND to TABLE 6: TBI patients and control subjects CSF proteomes

Analytical mass spectrometry, by LC-MS/MS on LTQ-Orbitrap and Q-Exactive Orbitrap mass spectrometers was conducted on CSF from 19 severe and moderate TBI patients and 9 Control donors. Proteins were identified by MASCOT database searching (SwissProt/Uniprot Homo sapiens, 95% peptide confidence) to arrive at cumulative conservative TBI and healthy CSF protein lists using same conditions. These CSF proteomes served to determine the clinical presence of a previously identified astrocytic trauma-release proteome[1]. Proteins from this mouse trauma-release proteome that are also found in TBI CSF are highlighted in roseate[1]. Astrocyte-enriched proteins from a gene array study are highlighted in yellow[2]. Trauma-released and astrocyte-enriched proteins are highlighted in red. *Italics* indicate proteins present in healthy plasma proteomes[3, 4].

PROTEOME TABLE REFERENCES

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