

Supplementary Table S1. Proteins identified by mass spectrometry in three bands in the BEFV α 1-binding fraction resolved by SDS-PAGE.

Peptide probability Thresholds: 95.0% minimum

Protein probability Thresholds: 99.9% minimum and 2 peptides minimum

BEFVa1-20120404 (~120 kDa band)					
#	Identified Proteins	Accession Number	Mol Weight	No of Unique Peptides	Percent coverage
1	Cationic trypsin OS=Bos taurus PE=1 SV=3	TRY1_BOVIN	26 kDa	4	26%
2	Importin-7 OS=Homo sapiens GN=IPO7 PE=1 SV=1	IPO7_HUMAN (+1)	120 kDa	8	9.80%
3	Keratin, type I cytoskeletal 10 OS=Homo sapiens GN=KRT10 PE=1 SV=6	K1C10_HUMAN	59 kDa	8	16%
4	Keratin, type I cytoskeletal 9 OS=Homo sapiens GN=KRT9 PE=1 SV=3	K1C9_HUMAN	62 kDa	4	11%
5	Keratin, type II cytoskeletal 1 OS=Homo sapiens GN=KRT1 PE=1 SV=6	K2C1_HUMAN	66 kDa	7	12%
6	Heterogeneous nuclear ribonucleoprotein U OS=Homo sapiens GN=HNRNPU PE=1 SV=6	HNRPU_HUMAN	91 kDa	2	4.00%
7	Myosin-Ib OS=Homo sapiens GN=MYO1B PE=2 SV=3	MYO1B_HUMAN (+1)	132 kDa	6	6.70%
8	Sodium/potassium-transporting ATPase subunit alpha-1 OS=Oryctolagus cuniculus GN=ATP1A1 PE=2 SV=2	AT1A1_RABIT	113 kDa	4	6.50%
9	Nucleolin OS=Homo sapiens GN=NCL PE=1 SV=3	NUCL_HUMAN (+2)	77 kDa	5	8.20%
10	Kinesin-1 heavy chain OS=Homo sapiens GN=KIF5B PE=1 SV=1	KINH_HUMAN	110 kDa	3	3.70%
11	Serum albumin OS=Bos taurus GN=ALB PE=1 SV=4	ALBU_BOVIN	69 kDa	2	4.10%
12	Importin-5 OS=Homo sapiens GN=IPO5 PE=1 SV=4	IPO5_HUMAN	124 kDa	4	5.00%
13	ATP-citrate synthase OS=Homo sapiens GN=ACLY PE=1 SV=3	ACLY_HUMAN	121 kDa	2	2.70%
14	Keratin, type I cytoskeletal 16 OS=Homo sapiens GN=KRT16 PE=1 SV=4	K1C16_HUMAN	51 kDa	2	6.30%
15	Keratin, type II cytoskeletal 2 epidermal OS=Homo sapiens GN=KRT2 PE=1 SV=2	K22E_HUMAN	65 kDa	2	8.80%
16	Bifunctional aspartokinase/homoserine dehydrogenase 2 OS=Escherichia coli (strain K12) GN=metL PE=1 SV=3	AK2H_ECOLI	89 kDa	2	3.80%
17	Ephrin type-B receptor 2 OS=Homo sapiens GN=EPHB2 PE=1 SV=5	EPHB2_HUMAN (+1)	117 kDa	2	2.70%
18	NAD(P) transhydrogenase, mitochondrial OS=Bos taurus GN=NNTM PE=1 SV=3	NNTM_BOVIN (+2)	114 kDa	2	2.90%
19	Poly [ADP-ribose] polymerase 1 OS=Homo sapiens GN=PARP1 PE=1 SV=4	PARP1_HUMAN	113 kDa	2	2.60%
20	Nck-associated protein 1 OS=Homo sapiens GN=NCKAP1 PE=1 SV=1	NCKP1_HUMAN (+1)	129 kDa	2	2.00%
21	Matrin-3 OS=Homo sapiens GN=MATR3 PE=1 SV=2	MATR3_HUMAN	95 kDa	3	5.00%
22	Importin-8 OS=Homo sapiens GN=IPO8 PE=1 SV=2	IPO8_HUMAN	120 kDa	2	3.50%

BEFVa1-20120404 (~97 kDa band)

#	Identified Proteins	Accession Number	Molecular Weight	No of Unique Peptides	Percent coverage
1	Cationic trypsin OS=Bos taurus PE=1 SV=3	TRY1_BOVIN	26 kDa	5	35%
2	Importin subunit beta-1 OS=Homo sapiens GN=KPNB1 PE=1 SV=2	IMB1_HUMAN	97 kDa	13	18%
3	Keratin, type II cytoskeletal 1 OS=Homo sapiens GN=KRT1 PE=1 SV=6	K2C1_HUMAN	66 kDa	11	30%
4	Keratin, type I cytoskeletal 9 OS=Homo sapiens GN=KRT9 PE=1 SV=3	K1C9_HUMAN	62 kDa	7	18%
5	Keratin, type I cytoskeletal 10 OS=Homo sapiens GN=KRT10 PE=1 SV=6	K1C10_HUMAN	59 kDa	6	15%
6	Far upstream element-binding protein 2 OS=Homo sapiens GN=KHSRP PE=1 SV=4	FUBP2_HUMAN	73 kDa	7	11%
7	Large T antigen OS=Simian virus 40 PE=1 SV=2	LT_SV40	82 kDa	4	6.50%
8	Signal transducer and activator of transcription 1-alpha/beta OS=Homo sapiens GN=STAT1 PE=1 SV=2	STAT1_HUMAN	87 kDa	2	4.00%
9	Heat shock protein HSP 90-alpha OS=Bos taurus GN=HSP90AA1 PE=2 SV=3	HS90A_BOVIN (+6)	85 kDa	6	11%
10	Dynamin-like 120 kDa protein, mitochondrial OS=Homo sapiens GN=OPA1 PE=1 SV=3	OPA1_HUMAN (+2)	112 kDa	5	6.00%
11	Keratin, type II cytoskeletal 2 epidermal OS=Homo sapiens GN=KRT2 PE=1 SV=2	K22E_HUMAN	65 kDa	3	11%
12	DNA replication licensing factor MCM5 OS=Homo sapiens GN=MCM5 PE=1 SV=5	MCM5_HUMAN	82 kDa	3	5.00%
13	Mitochondrial inner membrane protein OS=Homo sapiens GN=IMMT PE=1 SV=1	IMMT_HUMAN	84 kDa	3	5.10%
14	Transportin-1 OS=Bos taurus GN=TNPO1 PE=2 SV=2	TNPO1_BOVIN (+2)	102 kDa	5	7.20%
15	Sodium/potassium-transporting ATPase subunit alpha-1 OS=Oryctolagus cuniculus GN=ATP1A1 PE=2 SV=2	AT1A1_RABIT	113 kDa	4	6.10%
16	Interleukin enhancer-binding factor 3 OS=Homo sapiens GN=ILF3 PE=1 SV=3	ILF3_HUMAN	95 kDa	3	3.90%
17	Heat shock protein HSP 90-beta OS=Equus caballus GN=HSP90AB1 PE=2 SV=3	HS90B_HORSE (+5)	83 kDa	4	14%
18	Serum albumin OS=Bos taurus GN=ALB PE=1 SV=4	ALBU_BOVIN	69 kDa	2	3.80%
19	Keratin, type I cytoskeletal 14 OS=Homo sapiens GN=KRT14 PE=1 SV=4	K1C14_HUMAN	52 kDa	4	12%
20	Transferrin receptor protein 1 OS=Pongo abelii GN=TFRC PE=2 SV=1	TFR1_PONAB	85 kDa	3	5.80%
21	Elongation factor 2 OS=Bos taurus GN=EEF2 PE=2 SV=3	EF2_BOVIN (+4)	95 kDa	2	2.40%
22	Putative pre-mRNA-splicing factor ATP-dependent RNA helicase DHX15 OS=Homo sapiens GN=DHX15 PE=1 SV=2	DHX15_HUMAN (+2)	91 kDa	2	3.60%
23	Heterogeneous nuclear ribonucleoprotein U-like protein 1 OS=Homo sapiens GN=HNRNPUL1 PE=1 SV=2	HNRL1_HUMAN	96 kDa	2	2.70%
24	Catenin beta-1 OS=Bos taurus GN=CTNNB1 PE=2 SV=1	CTNB1_BOVIN (+3)	86 kDa	3	5.80%
25	Integrin beta-1 OS=Homo sapiens GN=ITGB1 PE=1 SV=2	ITB1_HUMAN (+1)	88 kDa	3	4.80%
26	Plasminogen OS=Bos taurus GN=PLG PE=1 SV=2	PLMN_BOVIN	91 kDa	3	4.70%

27 Bifunctional aspartokinase/homoserine dehydrogenase 2 OS=Escherichia coli (strain K12) GN=metL PE=1 SV=3 AK2H_ECOLI 89 kDa 2 3.70%

BEFVa1-20120404 (~60 kDa band)

Identified Proteins	Accession Number	Molecular Weight	No of Unique Peptides	Percent coverage
1 Cationic trypsin OS=Bos taurus PE=1 SV=3	TRY1_BOVIN	26 kDa	6	39%
2 60 kDa heat shock protein, mitochondrial OS=Homo sapiens GN=HSPD1 PE=1 SV=2	CH60_HUMAN	61 kDa	11	25%
3 Nucleosome assembly protein 1-like 4 OS=Homo sapiens GN=NAP1L4 PE=1 SV=1	NP1L4_HUMAN	43 kDa	8	17%
4 Cytoskeleton-associated protein 4 OS=Homo sapiens GN=CKAP4 PE=1 SV=2	CKAP4_HUMAN	66 kDa	9	19%
5 Keratin, type I cytoskeletal 9 OS=Homo sapiens GN=KRT9 PE=1 SV=3	K1C9_HUMAN	62 kDa	4	12%
6 Nucleosome assembly protein 1-like 1 OS=Bos taurus GN=NAP1L1 PE=2 SV=1	NP1L1_BOVIN (+2)	45 kDa	4	20%
7 Keratin, type II cytoskeletal 1 OS=Homo sapiens GN=KRT1 PE=1 SV=6	K2C1_HUMAN	66 kDa	7	19%
8 Keratin, type I cytoskeletal 10 OS=Homo sapiens GN=KRT10 PE=1 SV=6	K1C10_HUMAN	59 kDa	7	14%
9 T-complex protein 1 subunit theta OS=Macaca fascicularis GN=CCT8 PE=2 SV=1	TCPQ_MACFA	60 kDa	4	8.80%
10 Vimentin OS=Chlorocebus aethiops GN=VIM PE=1 SV=3	VIME_CHLAE (+1)	54 kDa	2	4.50%
11 Keratin, type II cytoskeletal 2 epidermal OS=Homo sapiens GN=KRT2 PE=1 SV=2	K22E_HUMAN	65 kDa	3	7.70%
12 Beta-lactoglobulin OS=Ovis orientalis musimon GN=LGB PE=1 SV=1	LACB_OVIMU	18 kDa	2	14%
13 Alpha-S1-casein OS=Bos taurus GN=CSN1S1 PE=1 SV=2	CASA1_BOVIN	25 kDa	2	13%
14 Translation initiation factor eIF-2B subunit delta OS=Homo sapiens GN=EIF2B4 PE=1 SV=2	EI2BD_HUMAN	58 kDa	3	7.10%
15 Pyruvate kinase isozymes M1/M2 OS=Homo sapiens GN=PKM2 PE=1 SV=4	KPYM_HUMAN	58 kDa	4	11%
16 Serum albumin OS=Bos taurus GN=ALB PE=1 SV=4	ALBU_BOVIN	69 kDa	3	6.30%
17 Importin subunit alpha-2 OS=Homo sapiens GN=KPNA2 PE=1 SV=1	IMA2_HUMAN	58 kDa	2	4.90%
18 Far upstream element-binding protein 3 OS=Homo sapiens GN=FUBP3 PE=1 SV=2	FUBP3_HUMAN	62 kDa	2	3.80%
19 Prelamin-A/C OS=Homo sapiens GN=LMNA PE=1 SV=1	LMNA_HUMAN (+1)	74 kDa	2	3.80%
20 T-complex protein 1 subunit delta OS=Homo sapiens GN=CCT4 PE=1 SV=4	TCPD_HUMAN (+2)	58 kDa	2	6.50%
21 Phenylalanine--tRNA ligase alpha chain OS=Pongo abelii GN=FARSA PE=2 SV=1	SYFA_PONAB	58 kDa	2	4.50%
22 Serine/threonine-protein phosphatase 2A 65 kDa regulatory subunit A alpha isoform OS=Bos taurus GN=PPP2R1A PE=1 SV=1	2AAA_BOVIN (+3)	65 kDa	3	7.00%
23 Nicalin OS=Homo sapiens GN=NCLN PE=1 SV=2	NCLN_HUMAN	63 kDa	3	7.60%
24 60 kDa chaperonin OS=Ralstonia metallidurans (strain CH34 / ATCC 43123 / DSM 2839) GN=groL PE=3 SV=1	CH60_RALME	57 kDa	3	9.70%
25 T-complex protein 1 subunit gamma OS=Bos taurus GN=CCT3 PE=1 SV=1	TCPG_BOVIN (+5)	61 kDa	2	4.00%

26	Alpha-1-antitrypsin OS=Bos taurus GN=SERPINA1 PE=1 SV=1	A1AT_BOVIN	46 kDa	2	6.00%
27	Nucleolar protein 58 OS=Homo sapiens GN=NOP58 PE=1 SV=1	NOP58_HUMAN (+1)	60 kDa	2	5.10%
28	5'-AMP-activated protein kinase catalytic subunit alpha-1 OS=Homo sapiens GN=PRKAA1 PE=1 SV=4	AAPK1_HUMAN (+4)	64 kDa	2	3.80%
29	T-complex protein 1 subunit alpha OS=Homo sapiens GN=TCP1 PE=1 SV=1	TCPA_HUMAN (+1)	60 kDa	2	5.40%
30	Rubber elongation factor protein OS=Hevea brasiliensis PE=1 SV=2	REF_HEVBR	15 kDa	2	21%
31	Tubulin alpha-1A chain OS=Cricetulus griseus GN=TUBA1A PE=2 SV=1	TBA1A_CRIGR (+22)	50 kDa	2	7.80%
