

Table S1 The amino acid content of BEWP

		Content (mg/g)	
		EWP	BEWP
Branched-chain amino acids (BCAA)	Leucine (Leu)	38.30	34.77
	Isoleucine (Ile)	25.51	23.57
	Valine (Val)	32.02	33.52
	Total ratio	19.01%	23.61%
Aromatic amino acids (AAA)	Tyrosine (Tyr)	25.48	2.57
	Phenylalanine (Phe)	43.07	12.77
	Total ratio	13.60%	3.94%
Other amino acids	Aspartic Acid (Asp)	48.40	39.51
	Threonine (Thr)	24.40	24.37
	Serine (Ser)	33.15	31.61
	Glutamic Acid (Glu)	55.78	37.56
	Glycine (Gly)	17.46	13.13
	Alanine (Ala)	23.92	23.92
	Cystine (Cys)	12.42	7.48
	Methionine (Met)	18.49	13.35
	Histidine (His)	17.20	15.58
	Lysine (Lys)	38.83	42.45
	Arginine (Arg)	28.31	24.12
	Proline (Pro)	21.30	8.75
	Total ratio	67.39%	72.45%

Table S2 The sequence of BEWP

Sequence	Master Protein Accessions	Master Protein Descriptions	m/z [Da]	XCorr
TTNFAGILSQGLR	P26446	Poly [ADP-ribose] polymerase 1	689.3776	3.32
VLQPSSVDSQTAM	P01012	Ovalbumin	689.8298	3.09
SAESLKIS	P01012	Ovalbumin	417.732	3.02
MGSIGAASMEF	P01012	Ovalbumin	514.2232	2.79
SSAESLKIS	P01012	Ovalbumin	461.2479	2.75
DKLPGFGD	P01012	Ovalbumin	424.7112	2.68
ISSAESLKISQA	P01012	Ovalbumin	617.3374	2.54
NVLQPSSVDSQ	P01012	Ovalbumin	587.2908	2.46
DKLPGFG	P01012	Ovalbumin	367.1975	2.46
DKVVDVD	O42273	Protein TENP	395.203	2.39
NVLQPSSVD	P01012	Ovalbumin	479.7456	2.37
DKLPGF	P01012	Ovalbumin	338.6868	2.35
ELPFASGTM	P01012	Ovalbumin	484.7233	2.27
AESLKIS	P01012	Ovalbumin	374.2158	2.18
NGGQPCAGEALQSQP	Q2PC93	SCO-spondin	728.8214	2.12
MGSIGAASME	P01012	Ovalbumin	440.6897	2.06
LSSQLLS	Q5ZJX5	MTOR-associated protein MEAK7	374.216	2.06
FNAARLADIPE	E1BYJ2	DNA mismatch repair protein Msh6	608.8138	2.05