

Table S5. Different motifs commonly observed in BoSPL proteins.

Motif	Length (aa)	Protein sequences	Pfam domain
1	50	SQIPRCQVDGCEADLSSAKDYHRRHKVCEVHSAKPKVTVSGLEQRFCQQC	SBP
2	29	SRFHALSEFDEGKRSCRRRLAGHNERRRK	SBP
3	50	RTGKIVFKLLGKDPSZLPGTLRTZIYSWLSSIPSEMESYIRPGCVILSVY	
4	48	GSRRLFPTPIIHSMLAVATVCVCVCFMHAFPIVRQGSHFSWGGLDYG	
5	50	ITPLHLAASTSGSDDMIDVLTNDPQEIGLSSWNTLIDATGQTPFSYAAMR	
6	50	WRTLESPELITVSPVAVVAGEETTLVVGRSLTNDGISFRCSHMGNYLSH	
7	15	DLGLKL GKRTYFEDG	
8	28	VLSESQSDCALSLLSNSSSPLPQPQNP	
9	16	PERVYDGRQHTNMLWN	
10	18	WEVENGEIESFFPSIAG	
11	40	QSTSTNSSSPIVKQTKLASESSPGDSCSNIDFVQVKASTA	
12	15	NDWSSPLWDWDSLLF	
13	29	TTYDTKPTQMESGFTLSFQRGHGSEEQQV	
14	46	IAMPEIMWAKLSKDPVAYLDEFILKPGKMLFGRGSMTVYLNMMIFR	
15	28	FSLPRFKFLLVCSVERDYSALIRTLLDM	