

Supplementary Figure S1.

N3-E4--E9	-----	0	N3-E4--E9	HAYVRAKLMNAYPSVISPIGCLPAHLLGDMWGRFWTNLYSLTPVFGQKPNIDVTDAMVDQ	165
N1-E4--E9	-----	0	N1-E4--E9	HAYVRAKLMNAYPSVISPIGCLPAHLLGDMWGRFWTNLYSLTPVFGQKPNIDVTDAMVDQ	170
E1--E9	MSSSSHLILLSLVAVTAAQSTIEEQAKTFLDKFNHEAEDLFYQSSLASNNVNTNITEENVQ	60	E1--E9	HAYVRAKLMNAYPSVISPIGCLPAHLLGDMWGRFWTNLYSLTPVFGQKPNIDVTDAMVDQ	300
N2-E4--E9	-----	0	N2-E4--E9	HAYVRAKLMNAYPSVISPIGCLPAHLLGDMWGRFWTNLYSLTPVFGQKPNIDVTDAMVDQ	159
N4-E6-E9	-----	0	N4-E6-E9	HAYVRAKLMNAYPSVISPIGCLPAHLLGDMWGRFWTNLYSLTPVFGQKPNIDVTDAMVDQ	80
N5-E9	-----	0	N5-E9	-----	0
			↓ E9		
N3-E4--E9	-----	0	N3-E4--E9	AWDAQRIKKEAEKFFVSVGLPNMTQGFWENSLTDPGNVQKAVCHPTAWDLGKGFRIILM	225
N1-E4--E9	-----	0	N1-E4--E9	AWDAQRIKKEAEKFFVSVGLPNMTQGFWENSLTDPGNVQKAVCHPTAWDLGKGFRIILM	230
E1--E9	NMNNAGDKWSAFLKEQSTLAQMYPLQEIQNLTVKLQLQALQQNGSSVLSSEDKSKRLNTIL	120	E1--E9	AWDAQRIKKEAEKFFVSVGLPNMTQGFWENSLTDPGNVQKAVCHPTAWDLGKGFRIILM	360
N2-E4--E9	-----	0	N2-E4--E9	AWDAQRIKKEAEKFFVSVGLPNMTQGFWENSLTDPGNVQKAVCHPTAWDLGKGFRIILM	219
N4-E6-E9	-----	0	N4-E6-E9	AWDAQRIKKEAEKFFVSVGLPNMTQGFWENSLTDPGNVQKAVCHPTAWDLGKGFRIILM	140
N5-E9	-----	0	N5-E9	-----MREAGMDKG---GRILM	14
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			↓ E4		
N3-E4--E9	-----MPLNTHHEHLHTGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY	45	N3-E4--E9	CTKVTMDDFLTAHHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEINSLSAATPKHLKS	285
N1-E4--E9	-----MEFHHVGRAGLELPTSGLINEIMANSLDYNERLWAWESWRSEVGKQLRPLY	50	N1-E4--E9	CTKVTMDDFLTAHHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEINSLSAATPKHLKS	290
E1--E9	NTMSTIYSTGKVCNPNPQCCLLLEPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY	180	E1--E9	CTKVTMDDFLTAHHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEINSLSAATPKHLKS	420
N2-E4--E9	-----MRVPPGLNEIMANSLDYNERLWAWESWRSEVGKQLRPLY	39	N2-E4--E9	CTKVTMDDFLTAHHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEINSLSAATPKHLKS	279
N4-E6-E9	-----	0	N4-E6-E9	CTKVTMDDFLTAHHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEINSLSAATPKHLKS	200
N5-E9	-----	0	N5-E9	CTKVTMDDFLTAHHHEMGHIQYDMAYAAQPFLLRNGANEGFHEAVGEINSLSAATPKHLKS	74

			↓ E6		
N3-E4--E9	EEYVVLKNEMARANHYEDYDYMGRGDYEVNGVDGYDSRGQLIEDVEHTFEEIKPLYEHL	105	N3-E4--E9	IGLLSPDFQEDN	297
N1-E4--E9	EEYVVLKNEMARANHYEDYDYMGRGDYEVNGVDGYDSRGQLIEDVEHTFEEIKPLYEHL	110	N1-E4--E9	IGLLSPDFQEDN	302
E1--E9	EEYVVLKNEMARANHYEDYDYMGRGDYEVNGVDGYDSRGQLIEDVEHTFEEIKPLYEHL	240	E1--E9	IGLLSPDFQEDN	432
N2-E4--E9	EEYVVLKNEMARANHYEDYDYMGRGDYEVNGVDGYDSRGQLIEDVEHTFEEIKPLYEHL	99	N2-E4--E9	IGLLSPDFQEDN	291
N4-E6-E9	-----MPLYVNLQTSIDIKPLYEHL	20	N4-E6-E9	IGLLSPDFQEDN	212
N5-E9	-----	0	N5-E9	IGLLSPDFQEDN	86

Figure S1. Alignment of the N-terminal amino acid sequences conceptually encoded by predicted exons. The nucleotide sequences were translated using the ExPaSy translate tool, and alignment was done using Clustal Omega.

Supplementary Figure S2.

E11--13-N7	REIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLVQFQEQALCQAAKHEGPLHK	60	E11--13-N7	-----	159
E11--E14-N6	REIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLVQFQEQALCQAAKHEGPLHK	60	E11--E14-N6	----NPRTEQDLSPVIKLMDLPFSSKPF-----LKVSHETKNQCKKTHSDT	214
E11--E18	REIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLVQFQEQALCQAAKHEGPLHK	60	E11--E18	MILFGEDVRVANLKPRISFNFFVTAPKNVSDIIPRTEVEKAIRMSRSRINDAFRLNDNS	240
E11--E14-N8	REIVGVVEPVPHDETYCDPASLFHVSNDYSFIRYYTRTLVQFQEQALCQAAKHEGPLHK	60	E11--E14-N8	-----	161

E11--13-N7	CDISNSTEAGQKLFNMLRLGKSEPWTLALENVVGAKNMNVRPLLNYFEPLFTWLKDQNK	120	E11--13-N7	-----	159
E11--E14-N6	CDISNSTEAGQKLFNMLRLGKSEPWTLALENVVGAKNMNVRPLLNYFEPLFTWLKDQNK	120	E11--E14-N6	TTTKS	219
E11--E18	CDISNSTEAGQKLFNMLRLGKSEPWTLALENVVGAKNMNVRPLLNYFEPLFTWLKDQNK	120	E11--E18	LEFLGIQPTLGPPNQPPVSIWLIVFGVMGVIVGIVILIFTGIRDRKKKNKARSGENPY	300
E11--E14-N8	CDISNSTEAGQKLFNMLRLGKSEPWTLALENVVGAKNMNVRPLLNYFEPLFTWLKDQNK	120	E11--E14-N8	-----	161

E11--13-N7	SFVGWSTDWSPCKSAMARPRLTATSV-----SWVQAILLPQSPE-----	159	E11--13-N7	-----	159
E11--E14-N6	SFVGWSTDWSPYADQSIKVRISLKSALGDKAANSTLGKKLAD-SHL-ERLR-----AE--	171	E11--E14-N6	-----	219
E11--E18	SFVGWSTDWSPYADQSIKVRISLKSALGDKAYEWNDNEMYLFRRSSVAYAMRQYFLKVKNQ	180	E11--E18	ASIDISKGENNPGFQNTDDVQTSF	324
E11--E14-N8	SFVGWSTDWSPYADQSIKVRISLKSALGDKAGPVNGIPALL-----	161	E11--E14-N8	-----	161

<div> <div>E13↑</div> <div>E14↑</div> </div>					

Figure S2. Alignment of C-terminal amino acid sequences encoded by predicted exons. The nucleotide sequences were translated using the ExPaSy translate tool, and alignment was done using Clustal Omega.