

Datasets S1. MSDIN genes in eight *Amanita* species, *A. subjunquillea* (As), *A. rimosa* (Ar), *A. pallidorosea* (Apa), *A. bisporigera* (Ab), *A. fuliginea* (Af), *A. molliuscula* (Am), *A. exitialis* (Ae), and *A. phalloides* (Aph).

Species name	No.	Leader peptide	Core Peptide	Recognition Sequence	Coding and Notes
<i>Amanita subjunquillea</i>	1	MSDINATCLP	IWGIGCNP	CVGDEVAALLTRGEA	α -amanitin
	2	MSDINATRLP	IWGIGCDP	CVGDEVTALLTRGEA	β -amanitin, 2 copies
	3	MSDINATRLP	IWGIGCDP	CIGDNITALLTRGEA	β -amanitin, 2 copies
	4	MSDINATRLP	AWLVDCP	CVGDDINRLLTRGEK	phalloidin
	5	MSDINATRLP	AWLATCP	CAGDDVNPTLTRGE	phalloidin
	6	MSDINTARLP	HFASFIPP	CIGDDIEMVLKRGE	2 copies in <i>Aph</i>
	7	MSDINTARLP	TFLPPLFVPP	CVSDDIEMVLTRGE	
	8	MSDINTARLP	AFFPPFFIPP	CVSDDIEMVLTRGE	
	9	MSDINTAALP	FFFPPFFIPP	CVSDDIEMVLTRGE	2 copies in <i>Aph</i>
	10	MSDINVTCLP	FIFWFFWPP	CVGDDAASIIGK	
	11	MSDINAARLP	FIFPPFFIPP	CVSDDIEMVLTRGE	
	12	MSDINTARLP	LRLPPFMIPP	CVGDDIGMVLTRGE	2 copies in <i>Aph</i>
	13	MSDINATRLP	LNILPFMLPP	CVGDDVNPTLTRGE	
	14	MSDINTVCLP	LQKPWSRP	CVGDDIEMILERGEE	
	15	MSDINATRLP	IPILPIPP	YCSDDANTTLTLGE	2 copies
	16	MSDINATRLP	IPILPIPP	YCSDDANTTLTLGE	2 copies
	17	MSDINTARLP	IGRPESIP	CVGDDIEMILERGQK	
	18	MSDINATRLP	SSVLPRP	CVGDVDNIILTSREK	
	19	MSDMNATRLP	LIQRPYAP	CVSDDVNSPLTRGE	
	20	MSDMNATRLP	LIQRPFAP	CVSDDVDFALTRGE	3 copies in <i>Aph</i>

	21	MSDMNVARLP	ISDPTAYP	CVGGDIHAVLRRGE	7 copies in <i>Aph</i> , <i>Apa</i> , <i>Ab</i> , <i>Ar</i>
	22	MSDMNVARLP	ISDPTAYP	CVGGDIHAVLRRGE	7 copies in <i>Aph</i> , <i>Apa</i> , <i>Ab</i> , <i>Ar</i>
	23	MSDTNDARLP	LFFWFWFLWP	SVSDDIDSVLNRGE	2 copies in <i>Aph</i>
	24	MSDVNATRLP	FNFFRFPYP	CIGDDSASVL	3 copies in <i>Ar</i> , <i>Ab</i>
	25	MFDINITRLP	IFWFIYFP	CVGDNV	5 copies in <i>Ae</i> , <i>Aph</i> , <i>Af</i> , <i>Ar</i>
<i>Amanita</i>					
<i>rimosa</i>	1	MSDINSTRLP	IWGIGCNP	SVGDEVTALLTRGEA	α -amanitin, 2 copies
	2	MSDINATRLP	IWGIGCNP	SVGDEVTALLASGEA	α -amanitin, 2 copies
	3	MSDINATRLP	IWGIGCDP	CVGDDVAALTTRGEA	β -amanitin
	4	MSDINATRV	AWLVDCP	CVGDDISRLLTRGEK	phalloidin
	5	MSDINATRLP	AWDSKHP	CVGDDVSRLLRGE	2 copies
	6	MSDINATRLP	AWDSKHP	CVGDDISRLLTRGE	2 copies
	7	MSDINATRV	AWLAACP	CVGDDISHLLTRGE	2 copies in <i>Ab</i>
	8	MSDINASRLP	FFIIVKP	CGNPYVSDDVNSTLTRGE	
	9	MSDINTSRLP	FIPLGIITILP	CVSDDVNTTITRGD	
	10	MSDINTACLP	FLFPVIPP	CLSEDANVVVLNSGE	
	11	MSDINVTRLP	FFPIVFIPP	CI	
	12	MSDINIARLP	IFWFIYFP	CVGDDVDNTLSRGE	5 copies in <i>Ae</i> , <i>Aph</i> , <i>Af</i> , <i>As</i>
	13	MSDINVTRLP	IFLIMFIPP	CIGDDAASILKQGE	
	14	MSDINTSCLP	IFIAFPIPP	CVSDDIQTVLTRGE	2 copies
	15	MSDTNTACLP	IFIAFPIPP	CVSDDIQTVLTRGE	2 copies

16	MSDINASRLP	ILKKPWAP	SVCDDVNSTLTRGE	
17	MSDINVARLP	ISDPTAYP	CVGDDIQAVVKRGE	7 copies in <i>Aph</i> , <i>Apa</i> , <i>Ab</i> , <i>As</i>
18	MSDINATRLP	IIIVLGLIIP	LCVSDIEMILTRGE	
19	MSDINASRLP	IILAPIIP	CISDDVNTTLTCAE	
20	MSDINTTGLP	HFYNLMPP	CFSDDTGMVLRGE	
21	MSDINATRLP	HPFPLGLQP	CAGDVDNFTLIKGE	4 copies in <i>Af</i> , <i>Apa</i>
22	MSDINASCLP	LILVANGMAYV	SDDVSPTLTRGE	
23	MSDINTARLP	SYIPFPPP	CLSEDTNAVLMLGE	2 copies
24	MSDINTARLP	SYIPFPPP	CLSEDTNAVLMLGE	2 copies
25	MSDINTSRFP	SYGYRAFP	CVGDDVEMVLMHGE	
26	MSDINVTRLP	VLVFIFFLP	CISDDAASIIKLGE	
27	MSDIDTTRLP	LILFTLQP	SIGDDVNPTLTRGEK	
28	MSDIHAARLP	FPTRPVFP	SAGDDMIEVVLRGE	
29	MSDNNAARLP	FYFYLGIP	SDDAHPILTRGERLA	
30	MSDTNTARLP	ILFIQLEIP	CISDDVHPVLTRGE	
31	MSDVNTTRLP	FNFFRFPP	CICDDSEKVLELGE	3 copies in <i>As</i> , <i>Ab</i>
32	MSEINTARFP	NHGHRTIP	CVGDDIEMVLMHGE	
33	MSEINTSRLP	LVFIPPYFAP	CVSDDIQMVLTLGE	2 copies in <i>Af</i>
34	MFDMNTTCLP	GFIIYAYV	GDDVNHTLTRGE	
35	MLDINTARLP	FSLPTFPP	CVSDEIDVVLKRGE	
36	MLDINATRF	LGRPTHLP	CVGDDVNYIL	
37	MTDINDARLP	ILLIFFWIP	CANDDDENILNRG	
38	MTDINDTRLP	FVWILWLWLA	CVGDDTSILNRGE	
39	MPDINVTRLP	LLIIVLLTP	CISDDNNILNRGK	

<i>Amanita pallidorozea</i>	1	MSDINATRLP	IWGIGCNP	CVGDEVTALITRGEA	α -amanitin, 2 copies
	2	MSDINATRLP	IWGIGCNP	CVGDEVAALLTRGEA	α -amanitin, 2 copies
	3	MSDINATRLP	IWGIGCDP	CVGDDVTGVLTRGEA	β -amanitin
	4	MSDVNATRLP	AWLVDCP	CVGDDINRLLTRGEK	phalloidin
	5	MSDINATRLP	AWLMTCP	CVGDDVNPTLTRGE	
	6	MSDINASRLP	AWLATCPCA	GDDVNPTLTRGE	
	7	MSDINATRLP	DPRRLLIP	GGSDDVDSALTRDE	
	8	MSDINTARLP	EFIVFGIFP	CVGDDIQTVLTRGE	
	9	MSDINASRLP	FFPEVGFFP	CVGDDTNPILTRG	
	10	MSDINTIRVP	FPWTGPFVP	CVGDDVGSVLTHGE	2 copies in <i>Af</i>
	11	MSDINTARLP	FVIIPPFIFP	CVSDDIEMVLTRGE	
	12	MSDINATRLP	HPFPLGLQP	CAGDVDNLTLTRGE	4 copies in <i>Ar</i> , <i>Af</i>
	13	MSDINATRLP	HPFPLGLQP	CAGD	4 copies in <i>Ar</i> , <i>Af</i>
	14	MSDINAIRAPLP	IFSLNP	CVGDDVEVL	
	15	MSDINVIRLP	IFFIYFP	CVGDNIDNTLT	
	16	MSDINAARLP	LVYMILFP	SVGDDIDVVLGRGE	
	17	MSDINATRLP	LGRPESLP	CVGDDVNYILVSG	2 copies in <i>Aph</i>
	18	MSDINTARLP	MHILAPP	CVSDDIEMVLTRGE	
	19	MSDINATRLP	NWHAGPTRPP	CVADDVSLTLTRGE	
	20	MSDINAARLP	NLFVWIPP	CISDDINSTLTRGE	
	21	MSDINTARLP	VFFMPPFIPP	CVSDDIQMVLTRGEK	
	22	MSDINTTRLP	YFFNDHPP	CASDDIQMVFTRGE	
	23	MSDVNATRLP	MAFPEFLA	CVGDDVNHTLTRGE	3 copies in <i>Ab</i>
	24	MSDNASRLP	YFFGFTP	SVGDDVNPTLTRGE	
	25	MSDTNATRLP	SIFIVYPP	CVSDDVNSTLTRGE	

	26	MSDMNVVRLP	ISDPTAYP	CVGDDIQAVLGRGE	7 copies in <i>Aph</i> , <i>As</i> , <i>Ab</i> , <i>Ar</i>
	27	MSDMNVVRLP	ISDPTAYP	CVGDDIQAVLGRGE	7 copies in <i>Aph</i> , <i>As</i> , <i>Ab</i> , <i>Ar</i>
	28	MSDMNTACL	IFIVFIPP	CVSDDIQTVLTRGE	
	29	MSDLNATRLP	FNLFRFPYP	CIGDDSGSVLTLGEG	
	30	MSETNAARLP	TIHLFSAP	SVGDDIEVVLGRGE	
	31	MSNINTARLP	FLVPSFPP	CVSDDIQIVLTRGEK	
	32	MADINASRLP	LNILPFHLPP	CVSDDATSTLTRGE	2 copies in <i>Am</i>
	33	MYDINTTRLP	HFFNLTPP	CVRDDI	
<i>Amanita</i>					
<i>bisporigera</i>	1	MSDINATRLP	IWGIGCNP	CVGDDVTTLLTRGEA	α -amanitin, 2 copies
	2	MSDINATRLP	IWGIGCNP	CVGDDVTTLLTRGEA	α -amanitin, 2 copies
	3	MSDINATRLP	AWLVDCP	CVGDDVNRLLTRGE	Phalloidin, 2 copies
	4	MSDINATRLP	AWLVDCP	CVGDDVNRLLTRGE	Phalloidin, 2 copies
	5	MSDINATRLP	AWLAECP	CVGDDVNRLLTRGE	2 copies in <i>Ar</i>
	6	MSDINVARLP	FSVLSIIPP	CVNDDTSNTLTRGEK	
	7	MSDINATRLP	GMEPPSPMP	CVGDADNFTLTRGKK	
	8	MSDINATRLP	GMDPPSPMP	CVGDADNFTLTRGKK	
	9	MSDINVTRLP	GLPIIAIIP	CVSDDVDSTLTRGQ	
	10	MSDINVTRLP	GLPMVLP	CVSDDVDSTLTRGQ	
	11	MSDINTIRIP	GLGLIP	YVGDDVESVLRERGE	
	12	MSDINTSRLP	IFWPIFAP	CVSDDIDAVLRRGE	2 copies
	13	MSDINTSRLP	IFWPIFAP	CVSDDIDAVLRRGE	2 copies
	14	MSDINATRLP	IFWYIYFP	CVGGDVDNTLTRGE	

15	MSDINTSRLP	IFWPIFAP	CV	
16	MSDINAARLP	IIFEPIIP	CISDEVDTTLTRGQ	3 copies
17	MSDINAARLP	IIFEPIIP	CISDEVDTTLTRGQ	3 copies
18	MSDINAARLP	IIFEPIIP	CISDEVDTTLTRGQ	3 copies
19	MSDINAIRAP	ILMLAIPP	CVGDDIEVLRRGE	
20	MSDINVTRLP	IVFLEFYS	RVGDDVNSTLTRGEG	
21	MSDINATRLP	IWWYIYFP	CVGGDNDNTLTRGE	
22	MSDINTTSLP	MAFPEFLA	CVGDDVNSTLTRGE	3 copies in <i>Apa</i>
23	MSDINTTRLP	MAFPEFLA	CVGDDVNSTLTRGE	3 copies in <i>Apa</i>
24	MSDINATRLP	MIQRPFYP	CASDDVTSTLTRGE	
25	MSDINATRLP	LFYPPDFRPP	CVGDVDNFTLTRGEK	
26	MSDINATRLP	LFFPPDFRPP	CVGDVDNFTLTRGEK	3 copies in <i>Ae</i>
27	MSDINTARLP	LSSPMLLP	CVGDDILMVLTGGE	
28	MSDINTARLP	LSSPMLLP	CVGDDILMVL	
29	MSDMNVARLP	ISDPTAYP	CVGDDIYAVLRRGE	7 copies in <i>Aph</i> , <i>As</i> , <i>Apa</i> , <i>Ar</i>
30	MSDTNAMRLP	FFWPIIIPP	CVGDDAASILKQGE	2 copies
31	MSDTNAMRLP	FFWPIIIPP	CVGDDAASILKQGE	2 copies
32	MSDVNDTRLP	FNFFRFPYP	CIGDDSGSVLRLGE	3 copies in <i>As</i> , <i>Ar</i>
33	MSGINAARLP		AVGDDVEMVLRRGE	
34	MSGINAARLP		AVGDDVEMVLRRGK	
35	MADINTARLP	CIGFLGIP	SVGDDIEMVLRHGE	
36	MFDINVTRLP	GLPMVLP	CIGDDVDSTLTRGQ	
37	MLDINATRLP	IGRPQLLP	CVAGDVNYILVSGE	3 copies in <i>Ae</i>
38	MLDINTTRLP	IGRPQLLP	CVAGDVNYILVSGEK	3 copies in <i>Ae</i>
39	MTDINDTRLP	FIWVLWLWLL	SVGDDITIL	

	40	MTDINDTRLP	FIWVLWLWLL	SVGDDITIL	
<i>Amanita fuliginea</i>	1	MSDINATRLP	IWGIGCNP	SVGDEVTALLTSGEA	α -amanitin, 2 copies
	2	MFDINATCLP	IWGIGCNP	SVGDEVTAVLTRGEA	α -amanitin, 2 copies
	3	MSDINATRLP	IWGIGCDP	CVGDDVAALITRGEA	β -amanitin
	4	MSDINATRLP	AWLVDCP	CVGDDVNRLRLARGE	phalloidin
	5	MSDINASRLP	AWLATCP	CIGDDVNPTITRGE	phalloidin
	6	MSDINATRLP	AWLVTCP	CVGDDINRLLTRGEK	
	7	MSDINAARLP	ATYIPFFFPP	CVGDDIHAPSSGPLLC	
	8	MSDINTARLP	FLFFILPP	CVSDDIEMVLTRGEK	
	9	MSDINAARLP	FFPFVFIPP	CIGDDATSIVRQAE	
	10	MSDINATRLP	GILIVFPP	CVGDDVNSTLTRGE	
	11	MSDINATRLP	HLFTWIPP	CISDDSTLTRGE	
	12	MSDINATRLP	IFWFIYFP	CVGDDVDNTLTRGE	5 copies in <i>Ae</i> , <i>Aph</i> , <i>As</i> , <i>Ar</i>
	13	MSDINSARLP	LFFPPIFIPP	CVSDDVQVVLTRGE	2 copies
	14	MSDINSARLP	LFFPPIFIPP	CVSDDVQVVLTRGE	2 copies
	15	MSDINVTRLP	VLVFIFFPP	YISDDAVNILKQGE	
	16	MSDINSLRLP	VVNSRFNP	CVGDDVSPTLTRGE	
	17	MSDINTIRIP	FPWTGPFVPP	CVSDDVGSVLMRGE	2 copies in <i>Apa</i>
	18	MSDINTTRLP	YYLLLILPP	CVSDDLQTVLTRGEK	
	19	MSDTNATRLP	IWFIQLQIP	CAGDDVNSSLTRGE	
	20	MSDTNATRLP	GIIVVGLP	CIGDDVNSTLTRSE	
	21	MSDTNTARLP	LIFIPPYMPP	CVNDDIQMVLTRGEK	
	22	MSDTNTARVP	LVFIPPYFAP	CVNDDIQMVLTRGE	2 copies in <i>Ar</i>

	23	MSDNNTSRLP	VLLKPWAP	YVSDDVSSTLTRGERL	
	24	MSDLNASRLP	ILSVLGLPVP	HVGEETNSTLARGE	
	25	MSCINATRLP	LPSRPVFP	FVSDAIEVVLGRGE	
	26	MSDANTACL	IFLVFPIPP	CVSDDIQMVLTRGEG	
	27	MFDINGSRLP	AFRLIPPP	CVGDDVDSTLTSGE	
	28	MFDINSSRLP	HLYPNSRP	CVCDDACSTLTSAE	
	29	MFDINSSRLP	SAGLPESP	GDFDSTLTSGE	
	30	MFDTNATCLP	HPFPLGLQP	CAGEVDNFTLTKGE	4 copies in <i>Ar, Apa</i>
<i>Amanita</i>					
<i>molliuscula</i>	1	MSDINATRLP	IWGIGCNP	CVGDDVTLLTRGEA	α -amanitin, 3 copies
	2	MSDINATRLA	IWGIGCNP	CVGDDVTALLTRGEA	α -amanitin, 3 copies
	3	MSDINATRLA	IWGIGCNP	CVGDDVTALLTRGEA	α -amanitin, 3 copies
	4	MSDINATRLA	IWGIGCDP	CVGDDVTALLTRGEA	β -amanitin
	5	MSNINASRLP	IWAAFFRFP	CVGDEVDGILRSGE	
	6	MSDINATRFP	GKVFPP	YVGDDVDDIIRGE	
	7	MSDINATRFP	GKVNPP	YVGDDVDDIIRGE	
	8	MSNINATRFP	GKLFPP	YVGDDVDDIIRGE	
	9	MSNINALRLP	GFGFIP	YASGDVDYTLTRGE	
	10	MSDINSIHLP	GGYYQNT	FVGDDVEGILNRGE	
	11	MSDINASRLP	RLLVPRYP	CIDEDAEAILRSGE	
	12	MTDINATRLP	LNILPFHLPP	CVDDVDNTHLSGEK	2 copies in <i>Apa</i>
	13	MTDINATRLP	LIFLPPFIPP	CVDDVDNTHLSGEK	2 copies
	14	MTDINATRLP	LIFLPPFIPP	CVDDVDNTHLSGEK	2 copies
	15	MTDINATRLP	ILFGFFLLP	CVDGVDNTHLSGEK	
	16	MTDINATRLP	WFFFFYPP	CVDDVDNTHLSGEK	

	17	MTDINATRLP	FNILPLLLPP	CVDDVDNTLHSGEK	
	18	MTDINATRLP	FFWILIPP	CVDDVDNTVHSGDK	
	19	MTDINATRLP	WIFFFYPP	CVDDVDNTLHSGEK	
<i>Amanita</i>					
<i>exitialis</i>	1	MSDINATRLP	IWGIGCNP	CVGDDVTSVLTRGEA	α -amanitin
	2	MSDINATRLP	IWGIGCDP	CVGDDVTALLTRGEA	β -amanitin
	3	MSDINATRLP	AWLVDCP	CVGDDVNRLLTRGE	phalloidin
	4	MSDINATRLP	AWLTDCP	CVGDDVNRLLTRGE	
	5	MSDINTTRLP	FVVASPP	CVGDDIAMVLTRGE	
	6	MSDINTARLP	FIWVFGIP	GDDIGTVLTRGEK	
	7	MSDINLTRLP	GIIAIP	CVGDDDDVNSTLTRGQ	
	8	MSDINATRLP	IILAPVIP	CISDDNDPTLTRGQ	
	9	MSDINTARLP	IPIPPFFFP	FVSDDIEIVLRRGEK	2 copies
	10	MSDINTARLP	IPIPPFFFP	FVSDDIEIVLRRGEK	2 copies
	11	MSDINATRLP	IGRPQLLP	CVGGDVNYILISGEK	3 copies in <i>Ab</i>
	12	MSDINPTRLP	IFWFIYFP	CVSDVDSTLTRGE	5 copies in <i>Af, Aph, As, Ar</i>
	13	MSDINTARLP	IYRPPFYALP	CVGDDIQAVLTRGE	
	14	MSDINTARLP	IWIIGNP	CVSDDVERILTRGE	
	15	MSDINVIRAP	LLILSILP	CVGDDIEVLRRGE	
	16	MSDINATRLP	LFFPPDFRPP	CVGDADNFTLTRGEK	3 copies in <i>Ab</i>
	17	MSDINATRLP	LFFPPDFRPP	CVGDADNFTLTRGE	3 copies in <i>Ab</i>
	18	MSDINVIRLP	SMLTILPP	CVSDDASNTLTRGE	
	19	MSDINTARLP	VFSLPVFFP	FVSDDIQAVLTRGE	
	20	MSDINVTRLP	VFIFFFIPP	CVGDGTADIVRKGEK	

	21	MSDINATRLP	VWIGYSP	CVGDDCIALLTRGE	2 copies
	22	MSDINATRLP	VWIGYSP	CVGDDCIALLTRGE	2 copies
	23	MTDINDTRLP	FIWLLWIWLP	SVGDDNNILNRGEE	
<i>Amanita phalloides</i>	1	MSDINATCLP	IWGIGCNP	CVGDEVAALLTRGEA	α -amanitin
	2	MSDINATRLP	IWGIGCDP	CIGDDVTALLTRGEA	β -amanitin, 2 copies
	3	MSDINATRLP	IWGIGCDP	CVGDEVTALLTRGEA	β -amanitin, 2 copies
	4	MSDINATRLP	AWLVDCP	CVGDDINRLLTRGEK	phalloidin
	5	MSDINTTCLP	AWLATCP	CTGDDVNPTLTCGE	Phalloidin, 3 copies
	6	MSDINASRLP	AWLATCP	CVGDDVNPTLSRGE	phalloidin, 3 copies
	7	MSDINTTCLP	AWLATCP	CAGGDVNPTLTCGE	phalloidin, 3 copies
	8	MSDINAARLP	FIFPPFIIPP	CVSDDIEMVLTRGE	
	9	MSDINTARLP	FFFPPFFIPP	CVSDDIEMVLTRGE	2 copies in <i>As</i>
	10	MSDINITRLP	FFPIVFSPP	CIGDDTASIIKQGK	
	11	MSDINATRLP	FNILPFMLPP	CVSDDVNPTLTRGE	
	12	MSDINATRLP	FILAPIIP	CINDDVNSTLTSGE	
	13	MSDINITRLP	IFWFIYFP	CVGDNDNTLTRGE	5 copies in <i>Ae, As, Af, Ar</i>
	14	MSDINATRLP	IVGILGLP	CIGDDVNSTLTHGE	
	15	MSDINATRLP	LILLAALGIP	SDDADSTLTRGE	
	16	MSDINTARLP	LRLPPFMIPP	CVGDDIEMVLTRGEK	2 copies in <i>As</i>
	17	MSDINAARLP	SFFFVP	CISDDIEMVLTRGE	
	18	MSDINAARLP	SFFFPI	CISDDIEMVLTRGE	
	19	MSDINVTRLP	TIYYLYFIP	CVGDDTANIAKQGE	
	20	MSDINTACLP	VQKPWSRP	CVGDDIEMILERGE	

21	MSDIKSTRLP	LGRPESLP	CVGDDIEMILERG	2 copies in <i>Apa</i>
22	MSDMNVARLP	ISDPTAYP	CVGGDIQAVLRRGE	7 copies in <i>Apa, As, Ab, Ar</i>
23	MSDMNATRLP	LIQRPFAP	CVSDDVNPALTRGE	3 copies in <i>As</i>
24	MSDMNTTRLP	LIQRPFAP	CVSDDVNSALTRGE	3 copies in <i>As</i>
25	MSDTNDARLP	LFFWFWFLWP	SVSDDIDSVLNRGE	2 copies in <i>As</i>
26	MSDTNTACL	IFLAFPIPP	CVGDDIEMVLRRGE	
27	MSDVNATRLP	FNLFRFPYP	CIGDDSASVLGLGE	
28	MSNINVTRLL	FMPLAP	LRGDDATSIVKRGE	
29	MSEINTARLP	HFAFIPP	CIGDDIEMVLKRGE	2 copies in <i>As</i>
