

	1	15	30	45	60	75	90	
1	H.s	----MSLADELLADL	EEAEEEEEGGSYGEE	-----EEE	PAIEDVQEETQLDLS	-----	--GDSVKTIAKLWDS	57
2	S.p	----MSLADELLADL	DDIEETTESTITDEL	GPDAKKRRLELQLEE	GNGISAELENDLDIT	KISDSAQKLPSEVAN	KFNDNNENIYQLLNS	86
3	S.c	MSSEEDYFDELEYDL	ADEVNEEKEDIQTKK	LTTVNCQTEKFNPFEE	ILPESIELFRTLALI	S-----	-----PDRLSL	67
	91	105	120	135	150	165	180	
1	H.s	KMFAEIMMKIEEYIS	KQAKASEVMGPVEAA	PEYRVIVDANNLTVE	IENELNIIHKFIRDK	YSKRFPELESIVPNA	LDYIRTVKELGNSLD	147
2	S.p	TRLRDIIEGTEKYKG	TEKQA--ITGNIEDD	LEYHLIVDSNSIAME	IDDEILRLHRLVKEW	YHDRFPELSSLVLNA	FDYCKTVSSLLNDLD	174
3	S.c	SETAQILPKIVDLKR	ILQQQ-----EI	DFIKLLPFFNEIIPL	IKSNIKLMHNFLISL	YSRRFPELSSLIPSP	LQYSKVISILENENY	149
	181	195	210	225	240	255	270	
1	H.s	KCKNNE-----N	LQQILT NATIMVVS	TASTTQGGQLSEEEL	ERLEEACDMALELNA	SKHRIY EYVESRMSF	IAPNLSIII GASTAA	229
2	S.p	NSK-----T	KLSFLPSATVMVIAT	TATTTVGKPLPDEMI	KNVKNCC EAIQQLGE	EKQKIIEYVQSRISV	VAPNLSAVVGSTTAA	253
3	S.c	SKNESDELFFHLENK	AKLTREQILVLTMSM	KTSFKNKEPLDIKTR	TQILEANSILENLWK	LQEDIGQYIASKISI	IAPNVCFLVGPEIAA	239
	271	285	300	315	330	345	360	
1	H.s	KIMGVAAGGLTNLSKM	PACNIMLLGAQRKTL	SGFSSTSVLP-HTGY	IYHSDIVQSLPPDLR	RKAARLVAAKCTLAA	RVDSFHSTEG--KV	316
2	S.p	NLIGIAGGLTRLGKF	PACNLPALGKRRLLT	IGINNPVAVSG-DYGF	LYMSEIVQKTPPDVR	KQAIRMTAAKVALAA	RIDSIHEYDPG--SF	340
3	S.c	QLIAHAGGVLEFSRI	PSCNIASIGKNKHL	HELHTLESGVRQEGY	LFASDMIQKFPVSVH	KQMLRMLCAKVSLAA	RVDAGQKNGDRNTVL	329
	361	375	390	405	420	435	450	
1	H.s	GYELKDEIERKFDKW	QEPPPVKQVKPLPAP	LDGQRKKRGRRYRK	MKERLGLTEIRKQAN	RMSFGEIEEDAYQ-E	DLGFSLGHLGKSGSG	405
2	S.p	GISARKEVERKIEKL	LEPPSQKPTVALPVP	DDRPKRRRGRRIRK	MKEQYAVTELRRLQN	RVAFGKEEAEVFN-F	DETEGLGMLGQEGEG	429
3	S.c	AHKWKAELSKKARKL	SEAPSISETKALPIP	ETNPKRKELGENLGS	TRKNSDYRMSDNYKI	GWNLAKQEQTVLDSY	GEEVGLGMSNTSLQQ	419
	451	465	480	495	510	525	540	
1	H.s	RVRQTQVNEATKARI	SKTLQRTLQKQSVVY	GGKSTIRDRSSGTAS	SVAFTPLQGLEIVNP	QAAEKKVAEANQKYF	SS--MAEFLKVKGEK	493
2	S.p	KIRAVSIDSRTKLRL	PKARKAQLQSMQKN	P-----LAASGLQS	SLSFTPIQGIELVNP	LLQRQQKVEEANKWF	RDGVFTQIKKDSNEP	513
3	S.c	AVGATSGSRRSAGNQ	AKLTKVMKHRISEAN	QQ----ADEFLLISLG	HNTEQPNLSP EMVQM	HKKQHTNPEEETNWF	SG---HG-----	494
	541	555						
1	H.s	SGLMST	499					
2	S.p	KNKFS-	518					
3	S.c	-----	494					

