

		C-x ₃ -C	C-x ₄₋₈ -C	
fungi	mammals	H.sapiens	MAPQSLPSSRMAPLGLMLGLLMAACFTFCLSHQNN--LKE---FALTNPESSTKETETERKETKAE-----ELDAEVLVFPHTHEWQALQPG	82
		M.mulatta	MALQSLPSSRMAPLATLGLLMAACFTFCLSHQNN--LKE---FALTNPESSTKETETERKETKAE-----ELDAEVLVFPHTHEWQALRPG	82
		C.porcillus	-----MAPFGLMLGLLMTFTFTFCLSHQNN--PNK---FALTSLKSSSTKESKDKDTKVEE-----EMDAEVLVFPHTHEWQALRPG	72
		M.musculus	MAPOHLPSSTRMASPGMLGLLTSCLTLCLSCQNN--SNN---FALTNPESSTKHQESDTKETREE-----ELDTIELVFPHTHEWQALQPG	82
		C.lupus familiaris	MASQGLPPSRMALLGLMLGLLMAACFTFCLSHQNN--PE---FALTSPESSTKETAEERKDTTAE-----ELDSVLVFPHTHEWQALRPG	81
		S.cerevisiae	-----MVRILPILSLASSKLVASTI--LHS-----SIVSVP--SGGEIISAED--LKELEISGNSIV---DNRVYPKIFEPHWDWQILPG	74
		C.albicans	-----MKFS-----VLVLLAS-----YLVGVN-----SSIVDTSEELICPDPENPLDGYPKLFVPTNEWQTIKPG	55
		K.lactis	MRVKCVNRAIYVLTVLFSRLLVVSQVVLTPSNSNADPKQKDTANTAAVEANNNDANIAKKDAESDLVIGDHLVGN---TKEGYPIGFVPSIEWKEIRPG	96
fungi	mammals	E.gossypii	-----MY-WKK-----LRFIAIA--SA-AALAAVD--PETEGSELQTIQS---GGGYPRLEFEALQDWSTIKEG	54
		D.hansenii	-----MKLSKGVLLSLLLT-----LKPIE-----SSIVNTDGLICGA-PNNPTDGYPKIFEPTEWQTIKEG	58
fungi	mammals	H.sapiens	QAVPAGSHVRLNLOTGEREAKLQYEDKFRNNL--K---GKRLDINTNT-----YTSODLKSALAKFKEGAEMESSKEDKARQAEVKRLFRPIEELKK	169
		M.mulatta	QAVPAGSHVRLNLOTGEREAKLQSEDKFRNNL--K---GKRLDINTNT-----YTSODLKSALAKFKEGAEMESSKEDKARQAEVKRLFRPIEELKK	169
		C.porcillus	QAVPAGSHVRLNLOTGEREAKLQYEDKFRNNL--RELKKGKRLDINTDT-----YTSODLKSALAKFKEGE--RESSKEDARQAEVKRLFRPIEELKK	162
		M.musculus	QAVPAGSHVRLNLOTGVNEVKLQEDKFRNNL--KGFKRGRRLDINANT-----YTSODLKSALAKFTTEGTEMENSQDELARQATVVKQLFRPIEELKK	173
		C.lupus familiaris	QAVPVSSHVRLNLOTGEREAKLQEDKFRNNL--KGLRKGRRLDINTNT-----YTSODLKSALAKFKEGAEMESSKEDARQAEVKRLFRPIEELKK	172
		S.cerevisiae	QELPGLDRIINMDTGLKEAKLNDEKNVGDNGSHELIVS-----SEDMDKARQAEVKRLFRPIEELKK	117
		C.albicans	QDIPPLGLHVRLNIDTLEKEAKLMSADEKDE--PVQEVVVGGELODHSREAIT---ENLQKLHESKHPEVKQ-----EHAHR-----T	127
		K.lactis	QRLPPGLDIRVSLSEKGVREAKLPEPGSENI--GNEEDVKGGLVGAEGSTLSESELKETSDELENEQSGFKLNNAEKESD--ILQQETDKIAIVSD--NAEAT	193
fungi	mammals	E.gossypii	QIIPPLGLDIRVSLSTGKQKARLTPNEASNMEN-----GIVQNI	91
		D.hansenii	QDIPAGLHVRLNMENLAREAKILDPSEETE--GSSELMVNAEQNNDQGDNSHQMTNEDQANEIQQKKEFK-----QTQGGK-----S	133
fungi	mammals	H.sapiens	DFDELNVVLETDMQIMVRLINKFN--SSSSSLEEKIAALFDLEYVYHQMNDNAQDLS---FGGLQVYINGLNSTEPLVKEYAASFVLGAASFSSNPKVQVEA	264
		M.mulatta	DFDELNVVLETDMQIMVRLINKFN--SSSSSLEEKIAALFDLEYVYHQMNDNAQDLS---FGGLQVYINGLNSTEPLVKEYAASFVLGAASFSSNPKVQVEA	264
		C.porcillus	DFDELNVVLETDMQIMVRLINKFN--SSSSSLEEKIAALFDLEYVYHQMNDNAQDLS---FGGLQVYINGLNSTEPLVKEYAASFVLGAASFSSNPKVQVEA	257
		M.musculus	DFDELNVVLETDMQIMVRLINKFN--SSSSSLEEKIAALFDLEYVYHQMNDNAQDLS---FGGLQVYINGLNSTEPLVKEYAASFVLGAASFSSNPKVQVEA	268
		C.lupus familiaris	DFDELNVVLETDMQIMVRLINKFN--SSSSSLEEKIAALFDLEYVYHQMNDNAQDLS---FGGLQVYINGLNSTEPLVKEYAASFVLGAASFSSNPKVQVEA	267
		S.cerevisiae	KASIGYEFSSDPKEMRNIDSNPTLSSQDILARLEDSFORIMEFAHDYKKGKIIITHEFAL--LANUSLNE-NLPLTLRELSTRVITSLRNNPQVVEFI	214
		C.albicans	KVSQGD---LSNFDAAECSELESFK--PHESDVERHLALDITLESHEIDFEGVKLTSDOKAIFOSLVNLAN-G-ASDPKITEKVYRVMGSSLRNNPPEAISNI	221
		K.lactis	SNFEPAGHEFSEDFAKIKSLMQSPD---EKTWEEVETLLDDLVFEFAHDYKKGKILSNEFEL--LEYLSFND-TLSIQIRELAARIIVSSLRNNPPSIDFV	287
fungi	mammals	E.gossypii	VDSDDSYFTKFEOLVRAQVASGA---PDYNVVILKQLDDLVYASDYTTLGKYLITHEFTL--LQELIFBQ-DVPISVKELSSRIIVACLNNPTCLDFV	184
		D.hansenii	KVSTVDP---LNDQSSVDEVQHYR--E--GGDANRLSTALDTLILSHDIEFGVKLTQDSSVFRSLVDVSK-S-VQDEDQEKVYRMGSSLRNNPDAVNHV	226
fungi	mammals	H.sapiens	IEGGA-----LQKLLVILA---TEOPLTAKKKVLFALCSLLRHFPYAOQOFL--KLGGLOVRLTLVQEKGT--EVLAVRVVLTLLYDLVTEKMFAGEE	349
		M.mulatta	IEGGA-----LQKLLVILA---TEOPLTAKKKVLFALCSLLRHFPYAOQOFL--KLGGLOVRLSLVQEKGT--EVLAVRVVLTLLYDLVTEKMFAGEE	349
		C.porcillus	IEGGA-----LQKLLVILA---TEOPLTAKKKVLFALCSLLRHFPYAOQOFL--KLGGLOVRLSLVQEKST--EVLAVRVVLTLLYDLVTEKMFAGEE	342
		M.musculus	IEGGA-----LQKLLVILA---TEOPLTAKKKVLFALCSLLRHFPYAOQOFL--KLGGLOVRLSLVQEKSA--KVLAVRVVLTLLYDLVTEKMFAGEE	353
		C.lupus familiaris	IEGGA-----LQKLLVILA---TEOPLTAKKKVLFALCSLLRHFPYAOQOFL--KLGGLOVRLSLVQAKGT--EVLAVRVVLTLLYDLVTEKMFAGEE	352
		S.cerevisiae	NESFPNFKSKIMAAALSNLNS--NHRSSNILLIKRVLISLNLPLVTSEDLPYIST-----VVLQNVYERNNKD-KQLQIKVLELITSKILLKADMYENDP	303
		C.albicans	LTNFDKSY---VDNLFEOQL---AN--ENDVLQKRILGLIQALVQNSHFVRQYFSFDH--SSGLNDLIIAIFPKLGPNSKSRASNLIEDQLQ-LFPVTND---	307
		K.lactis	NKPYQTTFKLCEHLSLEQAS---OGSKLLIKRFLSIDVLLSRTEYVSIK-D-----DVLWRLYQIEDPS---SKIKILEIYAKFYNEKNEQVI--	370
fungi	mammals	E.gossypii	NTRFPDFVRHLQEAIEYGRQATDAVEARQIKRYLSIYEPLLINE--POPIN-E-----EALQLYEVNDQ---VOLKVLMLMARLYKGR---S	266
		D.hansenii	LKNQDATF---VECLFDKLL---DTPASDVIKKRILGIIHALTQNSHFNAKYFNSNNANSAYDSLISVFPSSLESQSQTRLMNILEDKLLGGAGNS---	314
fungi	mammals	H.sapiens	AELTQESPEKLOQYRQVHLLPGLREQGWCEITAHLLALPEH--DAREKVLOTGLVLLTTRDRYRQDPQLGRTLA-SLQAEYQVL-----ASLELOQD	440
		M.mulatta	AELTQETESPEKLOQYRQVHLLPGLREQGWCEITAHLLALPEH--DAREKVLOTGLVLLATCRDHYRQDPQLSRTLA-SLQVEYQAL-----ASLELOQD	440
		C.porcillus	AELTQDMSPEKLOQYRQVHLLPGLREQGWCEITAHLLALPEH--DAREKVLOTGLMATCRDHYREDPELGRTLA-SLQAEYQAL-----AVLELEEG	433
		M.musculus	AELTQDSSPEKLOQYRQVLLPGLREQGWCEITADLLALPEH--DAREKVLOTGLALLTTCRDYRQDQLSRTLG-RLOAEYQAL-----ASLELOQD	444
		C.lupus familiaris	AELTQESPEKLOQYRQVHLLPGLREQGWCEITAHLLALPEH--DAREKVLOTGLALLATCRDHYRQDPQLSRMLV-SLQAEYQAL-----AALELRDQ	443
		S.cerevisiae	TNLI-----LFRNAENWSSNLOEWANEFQ---EMVQNKSIDELHTRTFDITLYNLKKIKESDITINGGFLNWLQAQCKARQSNLDNGAQERT	389
		C.albicans	-----RRSL-----EDODPESQVSKFQNSFVGNK-LDEKNFKSYFDOLVNLHQSNK-SLRPSGDFLNWLAEVEESRKEN--KKRDYSQ	383
		K.lactis	-----DTVQDQDKTVQKWNELT---TIQTPELDELHLRSFPHCISFKITRFKNRVKIDSDFLNWLIDIEIVERNESKDDIKYRDV	449
fungi	mammals	E.gossypii	HNDD-----ISKRS---LESTDVQRWTTTSL---KAIQSKHLDDFHVRELFHGLYALKKEHGRAKTYPTFLGWLAETEARKQRMQDKQPRDL	350
		D.hansenii	---N---EK-RAIE---ESADPKSQSYSHFLQHSADSGVA--SEDQFKLYFNKLSEVHSQDK-S-LKPSKAFMEWLSKAELRSKGNKERDSSYTE	396
fungi	mammals	H.sapiens	EDEGYFQELLSGVN-----SLLKELR-----	461
		M.mulatta	EDEGYFRELLSGSVN-----SLLKELR-----	461
		C.porcillus	EDEGYFRELLSGSTD-----GLLREL-----	454
		M.musculus	EDDGYFRELLASIN-----SLMKELR-----	465
		C.lupus familiaris	EDEGYFRELLSGIN-----SLLKELR-----	464
		S.cerevisiae	EQDSFDKKLIDSRHLIFGNPMARHRIKNFRDEL-----	421
		C.albicans	EDKDFDEYMLRARHEVFGNPMGLRKAL-----ADEL	414
		K.lactis	DQLEFDNOLAKSRHAFVGNPMARLKERLFDDDDTLIADEL	490
fungi	mammals	E.gossypii	EQMEFDRLLIESRHMVFGNPMARHRIKNMEYDEL-----	383
		D.hansenii	EDRQFDQDLLRARHVFGNPMGLRKAL-----ADEL	427

Figure 5 - figure supplement 1