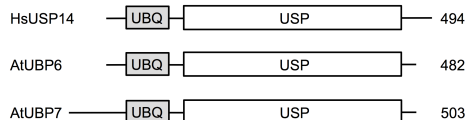


A



B

Hs_USP14 1 MP-----T-----TSV

Sc_UBP6 1 GS-----TQFNN

At_UBP6 1 MP-----T-----TVS

At_UBP7 1 LKVKDPNPQPGSTHPVRLIAYIETKKEEERKFFFDIACLGPFKEINLVLSQHQTITVTS

Hs_USP14 8 VKWKEKEKFEGLNTDTEPPMVFAQLFALTGVQPAROKVMVGGLLKDD-DWENIKIKNG

Sc_UBP6 10 LRHSGKV-YFPLSTDTATSADLTKSABELTQVPSAROKVMVGGLSGEESIKIYPLIKFG

At_UBP6 6 VKWQKVKVLNGEIDVSLPPVFAQLYDLTGVPVPRQKIMVVGGLLKDDDWAAIGKFG

At_UBP7 61 VKWQKVKVFESTIDTSCPPVFAQLYDLSGVPPRQKIMVVGGLLKDDADNSTGLKNG

Hs_USP14 67 MTLMMGSADA-PEEPSSAKTVFVEDLPEEQ-LASAEPLPGLTNLGNTYMNATVQCIR

Sc_UBP6 69 STVNLIGTIDANLITSPARKNNITDLAPEQQQQFAQLPVGFKNMGNTYINATLQALY

At_UBP6 66 KKLMMMGTADE-LVKAPEKAIIVFAEDLPEEA-LAINLGYSGALVNLGNTYMNSTVQCLL

At_UBP7 121 KKLMMMGTADE-LVKAPEKGGVFEMDLPEEQQAANLGYSGALVNLGNTYMNSTVQCLL

Hs_USP14 125 SVPELKDALKRYAGALRA---SGEMASA-QYTAARLRLFDVSKTSSTSPETILLQPE

Sc_UBP6 129 RVNLLRDMILNLYNPSQGVNSNGACPEETHKQVTEMRCFENPNKSEKSVPIILLNTL

At_UBP6 124 SVPELKSALSNYSLARS---NVDQDTS-HMITVATRELSESELDSVSNVASESOFMVVL

At_UBP7 179 SVPELKSLSNYSASAR---KVDQDTS-HMITVATRELSESELDKSVKAVAPLFFMVVL

Hs_USP14 180 HMAIPQFAEK-GEAGGYLOQDAECWITOMLRVLOKLEAIEDDSVKETDSSSASAPFSPK

Sc_UBP6 189 RKKYQFAERDSGGGYKQDAEELTOLPHSMVIF-----GD-----

At_UBP6 177 KKKYQFQSLQ---LNGMHMQDAECCWITOLYTLQSIL-----KAPTSSE

At_UBP7 233 KKKYQFAQL---HNGMHMQDAECCWITOLYTLQSIL-----KPSPSSE

Hs_USP14 239 KKSILDQFGVGFETTKQTESPEEVKKGKNQLQSLSGEINCEVKYLYFTGLKLHLOPE

Sc_UBP6 228 ---KFSDEPRKFKPTIDTANNNITVKNESDSKLCHISGTINFWNGLETSINEK

At_UBP6 221 GADAVKALPGVNLQRLCOESSEE---SSETESVSLKCHISHEVNLHLEGLKGLKCE

At_UBP7 275 DPDAVKALFGLNLLNLCOESSEE---SSETESVSLKCHISHEVNLHLEGLKGLKCE

Hs_USP14 299 KTSPLIQRNALYKSSKISRLPAYLTQVVRFFWKRESVNAKILKDKVPLMLDIYEL

Sc_UBP6 285 EKTSPLIDTANSYVSKKISRLPAYLTQVVRFFWKRESNOKATILRKVDVPLVLDIADI

At_UBP6 279 EKTSPLALGRATLYVKESLIDSLPRYLTVQVVRFFWKRESNOKATILRKVDVPLVLDIADI

At_UBP7 333 EKTSPLILGRATLYVKESLIDSLPRYLTVQVVRFFWKRESNOKATILRKVDVPLVLDIADI

Hs_USP14 359 CPELLOEKVVSFRSEKDDPEKKVNCQNTSDAKS-SPOKEVRVYEPFS-PAD-----

Sc_UBP6 345 LPELYAAEKVKVRLDEEVEKKEKEREKIKRKLDPSSSENWMTPEQYEVQVNLNSEE

At_UBP6 339 CPELRLKLEAPRQKRLDEEVEKGLGLQASA-RSG-SKGDVVKMTDAEASANGSGE-SST

At_UBP7 393 CPELRLKLEAPRQKRLDEEVEKGLGLQASA-RSG-SKGDVVKMTDAEASANGSGE-SST

Hs_USP14 409 -----DI-----GNNCSEYDLQAVLTHQGRSSSGHYVSVWVKR--C

Sc_UBP6 405 DQWLEEYKHHFFPNLEK-----GNPSCVYILVTHQANESGSHYATHTDLDE

At_UBP6 395 VNP-----QEGTSSEKHTGTGYLDVAVLTHKGRSADSGHYVAVWVKQ--S

At_UBP7 449 GDQ-----QEGA-----SPHMTGYLDVSLVTHKGRSADSGHYVAVWVKQ--S

Hs_USP14 445 DEWIKRDDDKVSVETPEDIHLSSGGGDWHIAYLIYGFRRVPELMEEESEQ

Sc_UBP6 459 NKWYKNDKDVSVVEKEEHLSSGGGSDSAITILMYKEFG-----

At_UBP6 440 GKWIQDDDNESVQREEDITKLSSGGGDWHMAYITMYKARVSM-----

At_UBP7 490 GKWIQDDDNESVQREEDITKLSSGGGDWHMAYITMYKARVSM-----