

| | | | |
|---------------------------------|---|---|----|
| Romo1/Mgr2 <i>S. cerevisiae</i> | MP----- | PLPQNYAQQPSNIDKFKM----- | 21 |
| Romo1/Mgr2 <i>H. sapiens</i> | MP----- | VAVGPGYQSQPSCFDRVKM----- | 21 |
| Romo1/Mgr2 <i>M. domestica</i> | MP----- | VAVGPGYQSQPSCFDRVKM----- | 21 |
| Romo1/Mgr2 <i>T. adherens</i> | M----- | PQHYGQPSCFDKVKF----- | 16 |
| Romo1/Mgr2 <i>A. macrogynus</i> | MS----- | MMPPPQQQGPSFTDKVKM----- | 20 |
| Tim17 <i>S. cerevisiae</i> | MS----- | ADHSRDPCFI----- | 12 |
| Tim17 <i>H. sapiens</i> | M----- | EEYAREPCFW----- | 11 |
| Tim17 <i>M. domestica</i> | M----- | EEYAREPCFW----- | 11 |
| Tim17 <i>T. adherens</i> | M----- | EEYAREPCFY----- | 11 |
| Tim17 <i>A. macrogynus</i> | MP----- | HHDRMRDPCFW----- | 13 |
| Tim23 <i>M. domestica</i> | ME---GNGGNSNRSSGGLAG--- | FFGGSGGPGSYSNADLAGVPLTGM SPL--- | 69 |
| Tim23 <i>H. sapiens</i> | ME---GGGGSGNKTTGGLAG--- | FFGAGGAG--YSHADLAGVPLTGMNPL--- | 67 |
| Tim23 <i>T. adherens</i> | MSDDYG--- | KDGYSRDYSSDPTMSASLSSSTNKALLSPYMNIDPRSLHQDGSSEFIFAGEPV | 58 |
| Tim23 <i>S. cerevisiae</i> | MSWLFQDKTPTDDANAAVGGQDTTKPKELSLKQSLGFE----- | PNINNIISGPGGMHVDTARLHP--LAGLQDKG--- | 88 |
| Tim23 <i>A. macrogynus</i> | MS--FFRSFTSSSSSSPDGAPADTSAPVAPAPAPALSQQQQPQQPQQPQPPAIETVGSMLSGLDFTQASRALS | VFVQGLGSG---VEYIFTDDSPHHAASG----- | 98 |



| | | | | | | | | | | | |
|---------------------------------|--|---------------------------------|------------------------------------|-----------------------------------|-----------------------|--------------|--------------|--------------|----------|--------------|-----|
| Romo1/Mgr2 <i>S. cerevisiae</i> | -----GLMMGTTVGVTGILFGGFAIATCG----- | PGPDGVVRLGKYIAGSACTFG--- | LFMISGSIIRSDSESSPMSHPNLNLQQQ--ARLE | EMWKLRAKY | 108 | | | | | | |
| Romo1/Mgr2 <i>H. sapiens</i> | -----GFVMGCAVGMAGALFPTFSCLRIG----- | MRGRELMGGIGKTMMSGGTIFG--- | TFMAIGMGI | | 79 | | | | | | |
| Romo1/Mgr2 <i>M. domestica</i> | -----GFVMGCAVGMAGALFPTFSCLRIG----- | MRGRELMGGIGKTMMSGGTIFG--- | TFMAIGMGI | | 79 | | | | | | |
| Romo1/Mgr2 <i>T. adherens</i> | -----GVMIGFAVGMSSGALFPTYSAFRMG----- | LRGRELLSTVKGIMLQGGGTFG--- | VFMIGSAIR | | 74 | | | | | | |
| Romo1/Mgr2 <i>A. macrogynus</i> | -----GAMMGCYGVVGLGFVIGNIQYLLTYG----- | ARGKGYLGTLANAITTSASFG--- | FFMAVGSVIRTEGAREIAFPPHARVT | ARPAALVSAELRESH | 108 | | | | | | |
| Tim17 <i>S. cerevisiae</i> | -----VILNDFGGAIFAMGALGGVWHGIKGFRNSPLG--- | ERSGSAMSAIKARAPVLGGNFGVWGLLFS | TFDCAVKA | VKRKREDP--- | WNSALIA--GFFTGGALAVRG | 106 | | | | | |
| Tim17 <i>H. sapiens</i> | -----RIVDDCGGAFMTGTGGGFQAIKGFNRNSPVG--- | VNHRLRGSLTAIKTRAPQLGGSAFVWGLLFS | SMIDCSMVQVRKEDP--- | WNSITS-- | GALTGAILAARN | 107 | | | | | |
| Tim17 <i>M. domestica</i> | -----RIVDDCGGAFMTGTGGGFQAIKGFNRNSPVG--- | IRHRFRGSI | SAVRI | RAPQIGGSFAVWGLLFS | STIDCGLVRLR | KGKEDP--- | WNSITS-- | GALTGAVLAARS | 107 | | |
| Tim17 <i>T. adherens</i> | -----RIIDDCGGAFSMGCI | GGGFVSLVKG | GYRNSPPG--- | KRLVGSITAIKTRAPVLGGNFAVWGLLFS | TFDCCLIKLR | NKEDP--- | WNSIGS-- | GALTGAVLAARG | 105 | | |
| Tim17 <i>A. macrogynus</i> | -----NVLNDAGGAFAMGALGGGWHFVKGARNAPRG--- | ERFPGAISAMKARAPVLGGNFAVWGLLFS | TFDCAFAGIR | QKEDA--- | WNSIMS-- | GTLTGGVLAALS | 107 | | | | |
| Tim23 <i>M. domestica</i> | KTRGRFELAFFTIGGCCITGAAFGANGLRRLGLKETQKMSWSKPRNVQILNMVTROGALWANTLGS | LALLYSAFGV | IEKTRGAEDD--- | INTVAA-- | GTMTGM | LYKCTG | 174 | | | | |
| Tim23 <i>H. sapiens</i> | KTRGRFELAFFTIGGCCITGAAFGANGLRRLGLKETQKMSWSKPRNVQILNMVTROGALWANTLGS | LALLYSAFGV | IEKTRGAEDD--- | INTVAA-- | GTMTGM | LYKCTG | 172 | | | | |
| Tim23 <i>T. adherens</i> | KRRSWGGERMFSNVGSSMIGITCGGAWGLFEGLR-TPHGNTMKLRINGILNSCTRRGFFVGN | SLG--- | CITILK | VTKEDEDNP--- | YNTVGA-- | AVLTGALFKSTG | 158 | | | | |
| Tim23 <i>S. cerevisiae</i> | PSRGWTDL | CYGTGAVILLGLGIGGFSGMQGLQNI | PPNSPKGLQLNTV | LHITKRG | PFLGN | NAGILALS | YNIINSTIDALR | GKHDT--- | AGSIGA-- | GALTGALFKSSK | 193 |
| Tim23 <i>A. macrogynus</i> | PSRSWTDL | CYGTGTALLSGLLFGGSWG | FVQGMRIPLPVASAKLRVNAVLNAMTRR | GFFVANSIGVLALMYNSMNSAITSQVGTANA-- | PAASVMA-- | AASAGALFKATS | 204 | | | | |



| | | | | | | |
|---------------------------------|-----------------|------------------------------------|------------------------|------------|---|-----|
| Romo1/Mgr2 <i>S. cerevisiae</i> | GIH----- | KD----- | 113 | | | |
| Romo1/Mgr2 <i>H. sapiens</i> | ----- | | 79 | | | |
| Romo1/Mgr2 <i>M. domestica</i> | ----- | | 79 | | | |
| Romo1/Mgr2 <i>T. adherens</i> | ----- | | 74 | | | |
| Romo1/Mgr2 <i>A. macrogynus</i> | ARMAAMRSSS- | | 118 | | | |
| Tim17 <i>S. cerevisiae</i> | GWHRTRNSSITCACL | LVIEGVGLMFQRYAAWQAKPMAPP-- | PEAPSSQPLQA----- | 158 | | |
| Tim17 <i>H. sapiens</i> | GPVAMVGSAA | MGGILLALIEGAGILLTRFASAQFPNGPQFAEDP | SQPLPSTQLPSSPFG----- | DYRQYQ | 171 | |
| Tim17 <i>M. domestica</i> | GPLAMVGSAM | MGGILLALIEGVGILLRYTAQQFRNTPPFTE | EDPGQLPPKEGSAPPPG----- | YP--GYGQYQ | 173 | |
| Tim17 <i>T. adherens</i> | GLSSSLRSA | AVGGILLALIEGVGIAITRMTAEQFKPGWTTVS | ----- | | 147 | |
| Tim17 <i>A. macrogynus</i> | GWKAALISAT | VGVLLEMIEGAGVVMNRMNADAFRPQAPL-- | PPELQQQAGMQPSA----- | | 162 | |
| Tim23 <i>M. domestica</i> | GLRGVARGGLTGLT | LTLSL----- | YALYNN-- | WEHMKGS | LTQQSL--- | 211 |
| Tim23 <i>H. sapiens</i> | GLRGIARGGLTGLT | LTLSL----- | YALYNN-- | WEHMKGS | LTQQSL--- | 209 |
| Tim23 <i>T. adherens</i> | GIRATALAA | AIGGTLAVT----- | YHFQMI | WQEKPT | FTSPNWSS-- | 198 |
| Tim23 <i>S. cerevisiae</i> | GLKPMGYSSAM | VAAACAV----- | WCSVKKR | LLEK----- | | 222 |
| Tim23 <i>A. macrogynus</i> | TLRLDSPSLL | FLRSETDP----- | TPFSTR-- | WRPANGHLE | ERHVRVGRSPLASDQANPRGLAICRQDCHALVRLDAPGRGLLVFE | 281 |

Supplementary Figure 2