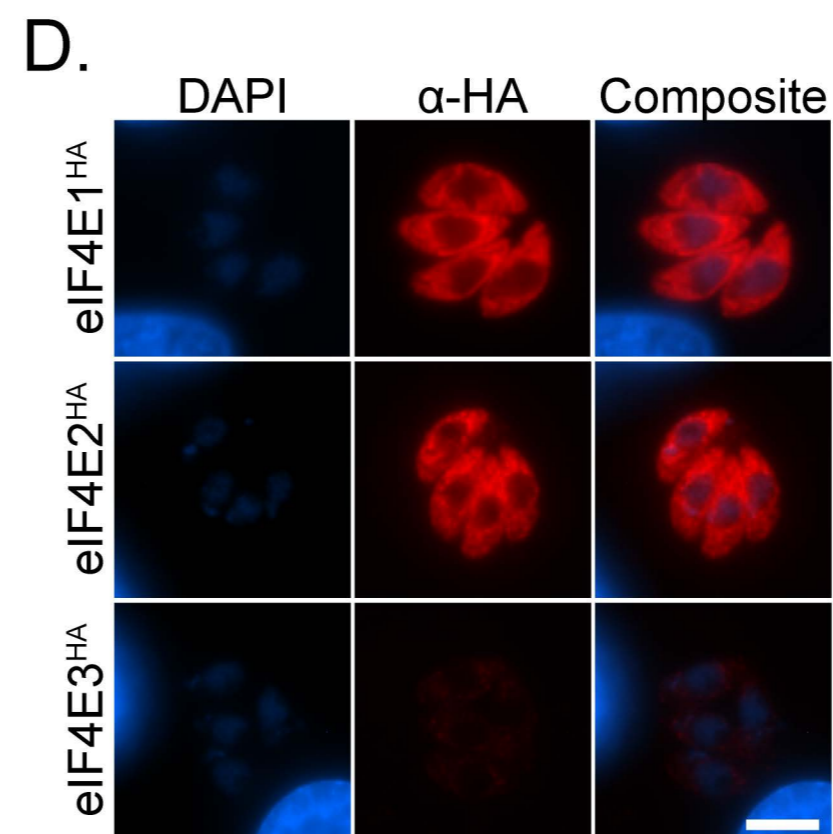
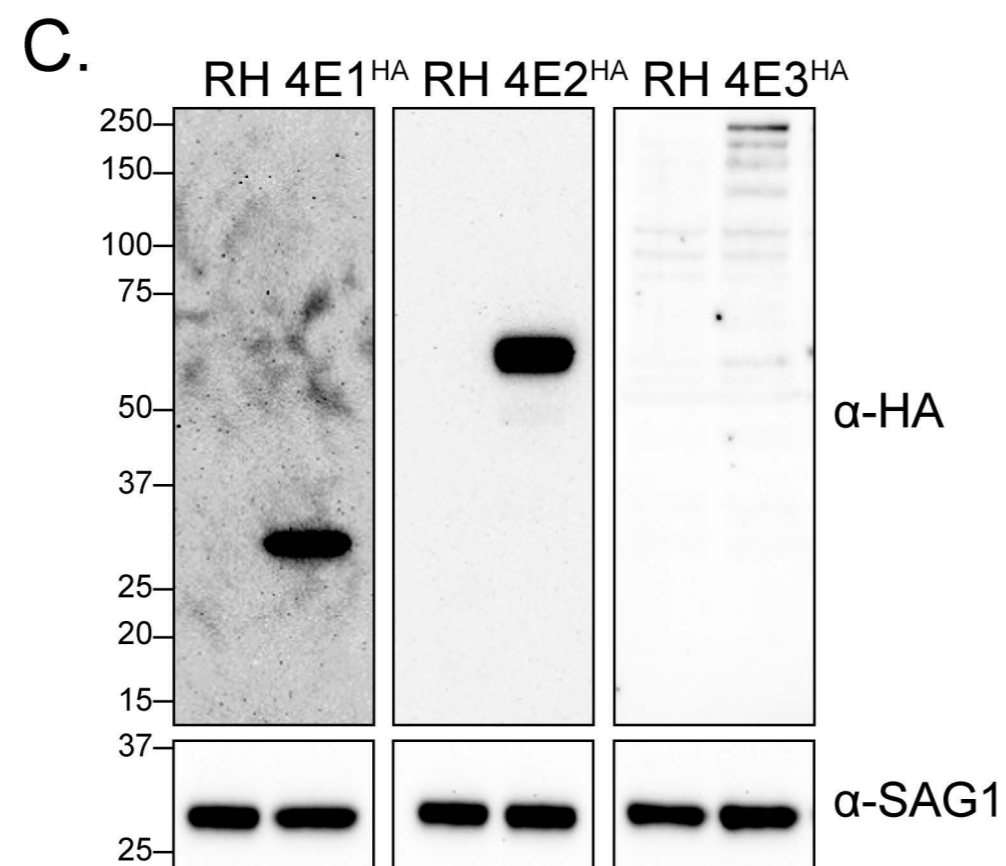
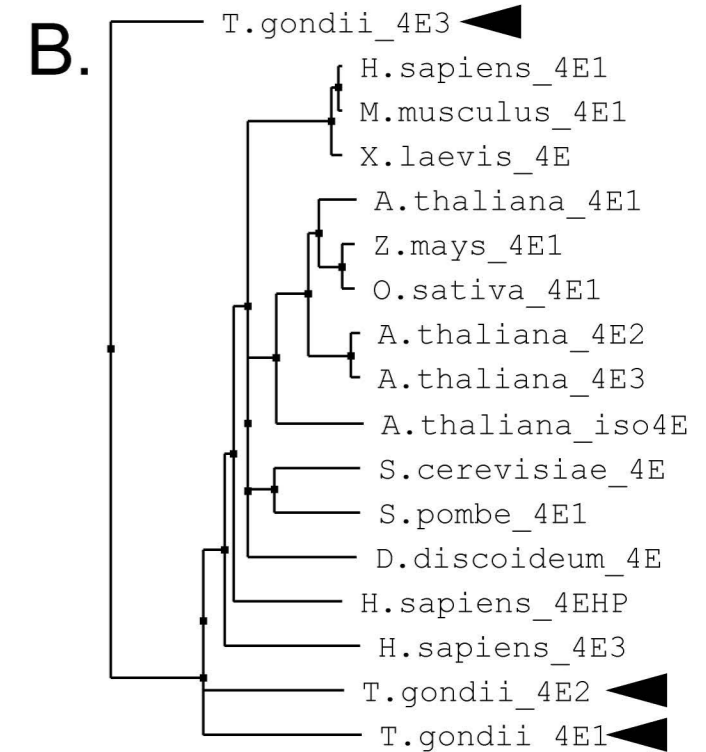
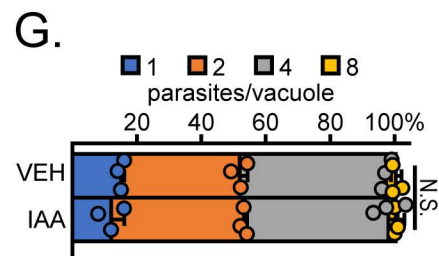
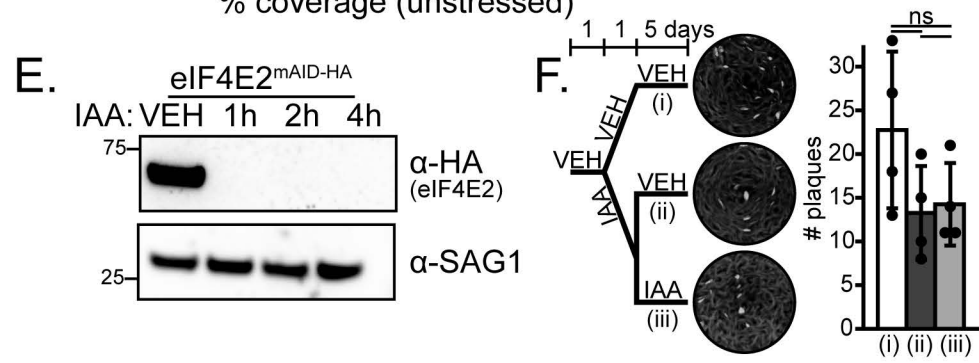
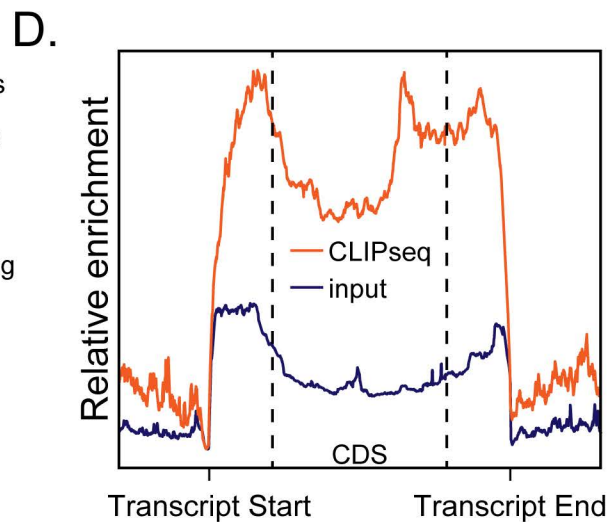
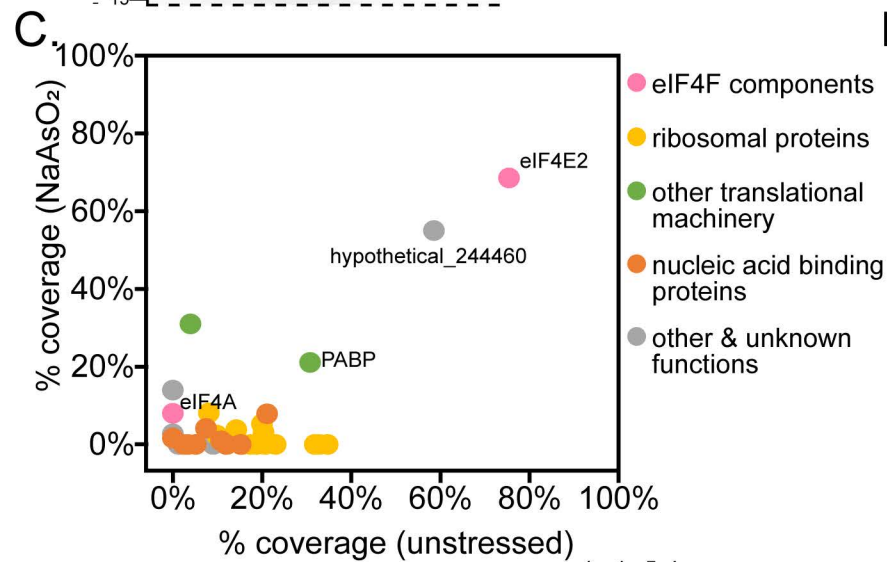
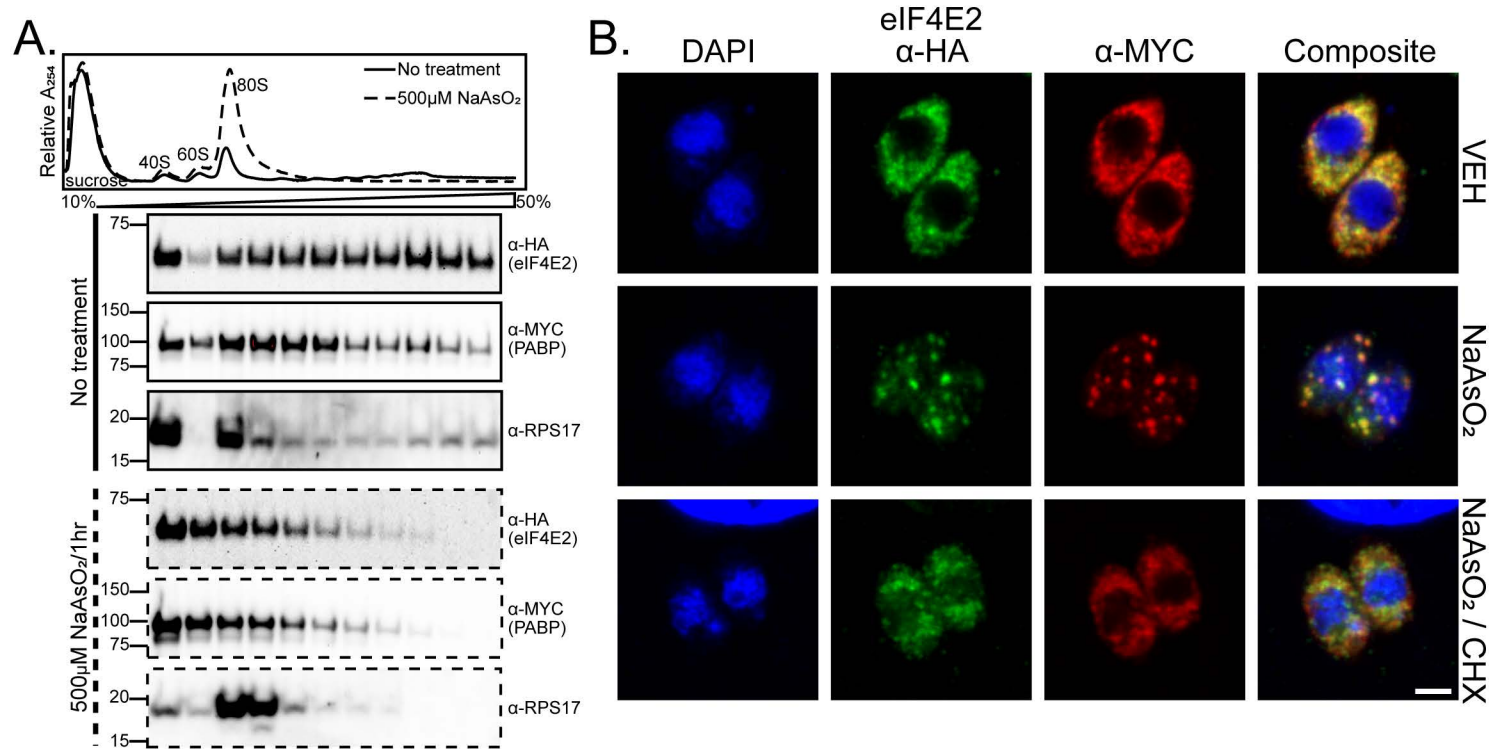


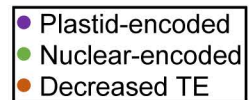
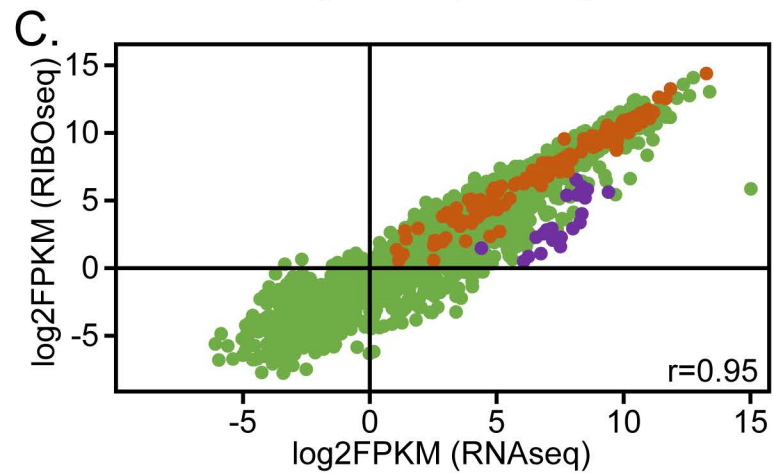
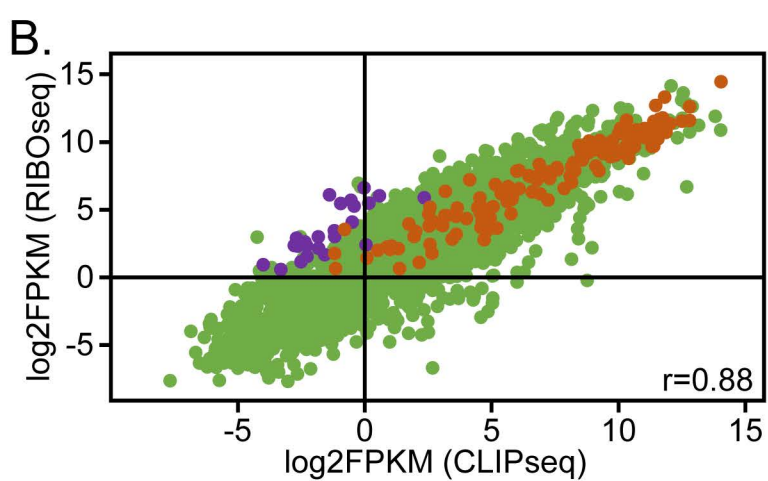
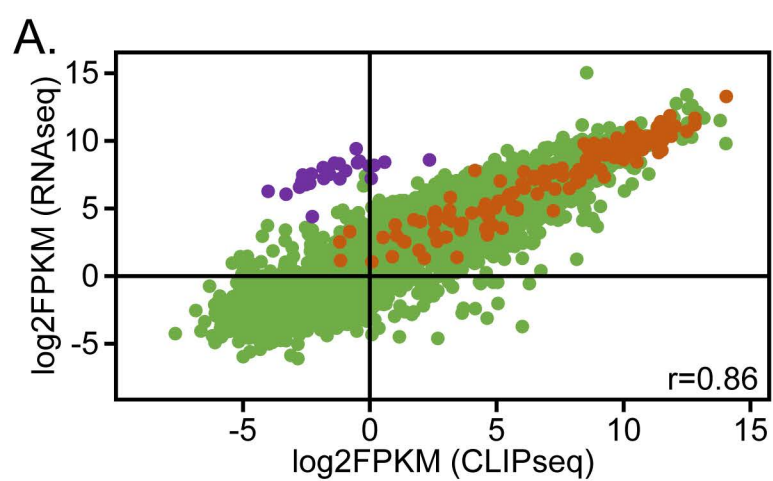
A. *H.sapiens_4E1* 33 HYIKHPLQNRWALWFF--KND---KSKTWQANLRLISKFDTVEDFWALYNHIQLSSNLMPGC-----DYSLFDKDGIEPMWEDEKNKRGGRWLITLTKQ-QRRSDLDRFWLETLLCLIGESFDDY---SDDVCGAVV 154
H.sapiens_4EHP 50 GPAEHPLQNYTFWYSRRTPGRPTSSQSYEQNIKQIGTFASVEQFWRFYSHMVRPGDLTGHS-----DFHLFKEGIKPMWEDDANKNGGKWIIRLR-----KGLASRCWENLILAMLGEQFMV---GEEICGAVV 171
H.sapiens_4E3 43 EPGGVPLHSSWTFWLD--RSLPGATAAECASNKKIYTVQTVQIFWSVYNNIPVTSPLPLRC-----SYHLMRGERRPLWEEESNAKGGVWKMVKP-----KDSTSTVWKELLATIGEQTDCAAADDEVIGVSV 166
M.musculus_4E1 33 HYIKHPLQNRWALWFF--KND---KSKTWQANLRLISKFDTVEDFWALYNHIQLSSNLMPGC-----DYSLFDKDGIEPMWEDEKNKRGGRWLITLTKQ-QRRSDLDRFWLETLLCLIGESFDDY---SDDVCGAVV 154
X.laevis_4E 29 QYIKHPLQNRWALWFF--KND---KSKTWQANLRLISKFDTVEDFWALYNHIQLSSNLMMSGC-----DYSLFDKDGIEPMWEDEKNKRGGRWLITLTKQ-QRRNDLDRFWLETLMCLIGESFDEH---SDDVCGAVV 150
A.thaliana_4E1 56 VPESHPLHSWTFWFD--NPAVKSQKTSWGSRLRPVFTFSVVEEFWSLYNNMKHPSKLAHGA-----DFYCFKHIEPKWEDPICANGGKWTMTFF-----KEKSDKSWLYTLLALIGEQFDH---GDEICGAVV 175
A.thaliana_4E2 61 IQKSHCFQNSWTFWFD--NPSSKSNQVIWGSRLRSLYTFATIEEFWSLYNNIHPPTKVVSGS-----DLYCFKDKIEPKWEDPICANGGKWTMFFP-----RATLESNWLNTLLALVGEQFDQ---GDEICGAVL 180
A.thaliana_4E3 61 IQKSHCFQNSWTFWFD--NPSSKSNQVIWGSRLRSLYTFGTIEEFWSLYNNIHPPTKVVSGA-----DLYCFKDKIEPKWEDPICANGGKWSMMFP-----KATLECNWLNTLLALVGEQFDQ---GDEICGAVL 180
A.thaliana_iso4E 24 --QPHKLERKWSFWFD--NQSKKG--AAWGASLRKAYTFDTVEDFWGLHETIFQTSKLTANA-----EIHLFKAGVEPKWEDPEACANGGKWTWVVT--ANRKEALDKGWLETLMALIGEQFDE---ADEICGVVA 142
Z.mays_4E1 39 PPATHPLEHSWTFWFD--NPQSKSKQAAGSSIRPIHTFSTVEEFWGLYNNINHPSKLIVGA-----DFHCFKNKIEPKWEDPICANGGKWTISCG-----RGKSDTFWLHTLLAMIGEQFDY---GDEICGAVV 158
O.sativa_4E1 48 PAAPHPLEHAWTFWFD--NPQGKSKQATWGSIRPIHTFSTVEDFWSLYNNIHHPSKLVVGA-----DFHCFKNKIEPKWEDPICANGGKWTFSCG-----RGKSDTMWLHTLLAMIGEQFDY---GDEICGAVV 167
S.cerevisiae_4E 33 FDVKHPLNTKWTWLYT--KPAVDK-SESWSDLLRPVTSFQTVVEFWAIIQNIPEPHELPLKS-----DYHVFERNDRPEWEDEANAKGGKWSFQLR--GKG-ADIDELWLRTLLAVIGETIDED---DSQINGVVL 154
S.pombe_4E1 34 FNLKHPLARPWTLWFL--MPPTP--GLEWNELOQNIITFNSVEEFWGIHNNINPASSLPIKS-----DYSFFREGVRPEWEDVHNTGGKWFQNK--GRGGNALDEMWTTLVLAIGETLDPT---GQEVGMVVI 155
D.discoideum_4E 70 NLIKHPLOQRWVSLWYD--YQSGKINPEHWVDSLKKVISFDSVEDFWCVFNILPNVSNLKQGS-----SYHLFKDDIEPKWEHESNKRGGKWFVMVKDK-SR---CDNQWLQSVMACVGETFDS---SDEICGIVY 190
T.gondii_4E1 1 -DEPLPLRYVWHVWEQ---VQQDDRSKEYSDNTRDLAAFDTVQKFWQLWSFIPQPSELLDHKRMVRQDKNGRSHVVDAMI FKEGIKPMWEDPRNATGGHFEYRLSFPQMSAGQIDEYWNVLVGLIGSTVEG---SDHITGVRL 138
T.gondii_4E2 20 QAVMENLRDATLAAFP-----ETTRVYASRLRGLSCFSTVEGEFRYMRCLARPSQLPGEC-----LLQLFRKGCWPLWEFFPS--GGSWSLRVKKPGCSARTVDGLWETLVLACIGETFEM-----PEVVGVVV 136
T.gondii_4E3 1 -----QEEYEQGLERVGRMSWTAVSPFLAWWLPASASRGNLH-----NLCFFKNPVKPLWEHPENIKGGHFEALRRF---AAKTTVQEMFLLLASTVLKDESVDG---AVRHCNGIVL 101

H.sapiens_4E1 155 NVR-----AKGDKIAIWTTECENREAVTHIGRVYKERLGLPPKIVIGYQSHADTATKSGSSTTKNRFVV 217
H.sapiens_4EHP 172 SVR-----FQEDIISIWNKTASDQATTARIRDTLRRVLNLPNTIMEYKTHTDSIKMPGRLGPQRLLF 245
H.sapiens_4E3 167 SVR-----DREDVVQVWNVNASLVGEATVLEKIYELLPHITFKAVFYKPHEEHAFEGGRGKH----- 224
M.musculus_4E1 155 NVR-----AKGDKIAIWTTECENRAVTHIGRVYKERLGLPPKIVIGYQSHADTATKSGSSTTKNRFVV 217
X.laevis_4E 151 NVR-----AKGDKIAIWTTEFENKDAVTHIGRVYKERLGLPAKVIGYQSHADTATKSGSSTTKNRFVV 213
A.thaliana_4E1 176 NIR-----GKQERISIWTKNASNEAAQVSIGKQWKEFLDYNSIGF---IHEDAKKLDLDRNAKNAYTA 235
A.thaliana_4E2 181 NFR-----TRGDRIISLWTKKAANEEAQLSIGKQWKELLGYNDTIGF---IVHEDAKTLDLDRDAKRRYTV 240
A.thaliana_4E3 181 NFR-----ARGDRIISLWTKNAANEEAQLSIGKQWKELLGYNETIGF---IVHEDAKTLDLDRDAKRRYTV 240
A.thaliana_iso4E 143 SVRP---QSKQDKLSLWTRTKSNEAVLMGIGKKWKEILDVTDKITF---NNHDDSR-----RSRFTV 198
Z.mays_4E1 159 SVR-----GKQERIAIWTKNAANEEAQVSIGKQWKELLDYKDSIGF---IVHDDAKKMDKGLKERYTV 218
O.sativa_4E1 168 SVR-----GKQERIAIWTKNAANEEAQISIGKQWKEFLDYKDSIGF---IVHDDAKKMDKGLKNRYTV 227
S.cerevisiae_4E 155 SIR-----KGGNKFALWTKS-EDKEPLLRIIGGKFKQVLKLTDDGHLEFFPH--SSANG-RHPQPSITL 213
S.pombe_4E1 156 NMR-----KGFYRLAVWTKSCNNREVLMEIGTRFKQVLNLPSETIEFSAHEDSSKSGSTRAKTRMSV 218
D.discoideum_4E 191 NSR-----KNGDKISVWTKTAQDEKATRDVGNCLKKILEIDQTIQY---TPHEDFIRSSKGSKNLYEC 250
T.gondii_4E1 139 VDKLSQGRHSCIRIEVWYSKLPSSREVQDALLKEINKCMATKIDGSGVGTLPRAVDK----- 193
T.gondii_4E2 137 QSK-----AKEFVLSLWIDSCPNAAEQKRIGEKLQLCRIRGNLSFQFKSFQ----- 183
T.gondii_4E3 102 CIR---HHWRKHKIEFWTASLDSGVLAQQEGLLRLLSQLPGSAGHGVELEFISHREVVQ----- 158

eIF4G-binding region (S/TVxxF)
Conserved aromatic residues (8 total)
Coordinates m7G binding
PTM residue







% signal

