

Supplementary Material: Full sequence alignment for the RPB7 family

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RPOE_METMA|21226698 -----MYKLMKLVDTVRIIP 14
RPOE_METAC|20092492 -----MYKLMKLIDTVRIIP 14
RPOE_METBA|23051810 -----MYKMMKLVDTVRIIP 14
RPOE_ARCFU|11498717 -----MYARIKLRDTVVRVP 14
RPOE_METTH|15678292 -----MYYVTKIVDTVRIIP 14
RPOE_PYRHO|14591652 -----MYKIVTVKDVVRIIP 14
RPOE_PYRAB|14521883 -----MYKIVTVKDVVRIIP 14
RPOE_PYRFU|18976628 -----MYKIVTVKDVVRIIP 14
RPOE_METJA|15668573 -----MYKILEIADVVKVP 14
RPOE_HALO|15790905 -----MYKRARLKDTIEVP 14
RPOE_THEAC|16082590 -----MYMLVEDKYIARVP 14
RPOE_THEVO|13541317 -----MYMMVEDKYIARIP 14
RPOE_FERAC|22406866 -----MYILLEDEYVIRVP 14
RPOE_METKA|20094887 -----MYELVELETTVRIIP 14
RPOE_SULTO|15920582 -----MFKLIKAKGIIRIP 14
RPOE_SULAC|730613 -----MFKLVRAKGIVRIIP 14
RPOE_SULSO|15897347 -----MYKLIKARSIVRIIP 14
RPOE_PYRAE|18314155 -----MPFRLVEAEDYVRVP 15
RPOE_AERPE|14600570 -----MYEYVVEEWIGMEP 15
RPC25_YEAST|6322705 -----MFILSKIADLVRIP 14
RPC25_SCHPO|19112860 -----MFLLSRFSDIISIH 14
RPC25_MOUSE|21313542 -----MFVLVEMVDTVPIIP 14
RPC25_HUMAN|22068810 -----MFVLVEMVDTVRIIP 14
RPC25_DROME|7294695 -----MFVLAELKDNVRIA 14
PPC25_ARATH|15222202 -----MFYLSELEHSLRVP 14
RPC25_CAEEL|17566938 -----MFILSLLHDTVAIQ 14
RPB7_SCHPO|19114885 -----MPFFLKELSLTISLH 15
RPB7_CANAL|12655858 -----MFFLKDSLNLTLH 14
RPB7_YEAST|6320612 -----MFFIKDSLNLTLH 14
RPB7_DROME|23171325 -----MFYHISLEQEILLH 14
RPB7_ANOGA|21288656 -----MFYHISLEHEILLH 14
RPB7_HUMAN|4505947 -----MFYHISLEHEILLH 14
RPB7_CAEEL|17510349 -----MFFHLSLDHEVCLH 14
RPB7_ARATH|15237831 -----MFFHIVLERNMQLH 14
RPB7_SOYBN|1173137 -----MFFHIVLERNMQLH 14
RPB7_ENCCU|19074596 -----MFFVRDFVQNIHLS 14
RPB7_PLAFA|23508072 -----MYFVIEEWKNVIK 14
RPB7_PLAYO|23481815 -----MYFVIEEWKNVIK 14
RPB7_GILTH|13811986 -----MYAIMTLNQNLFIP 14
RPA43_YEAST|6324916 -----MSQVKRANENRETARFIKHKHKQVTNPIDEKNGTSNCIVRVPIALYVSLA 50
RPA43_SCHPO|19113457 -----MPDLSLYKQTVDLYLSIA 18
RPA43_DROME|7297185 -----MAKILQKYIKFSVKELENYAS-----SPESCVRGITDMHLAMG 39
RPA43_ANOGA|21288304 -----MHRRTTIKTYTKFSAEELQKSTA-----DPLSCVAAVQLNEILSLR 40
RPA43_HUMAN|20539462 MAAGCSEAPRPAASDGLVGGAGVLPCLLELPTYAAACALVNSRYSCLVAGPHQRHIALS 60
RPA43_MOUSE|20847950 MAAGSVESQRSQAASERPVAGQAGVLPCLLELPSYAAACALVGSRYSCLVAAAPHRRHIALS 60
RPA43_ARATH|18410907 -----MEGLKLSAEELMIFIH 16

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RPOE_METMA 21226698	PTLLGEEIMPTIKNALREKLEGQ-----VDKKGSLVAVYNIDEVG-----	55
RPOE_METAC 20092492	PTLLGEEIMPTIKNALREKLEGQ-----VDKKGSLVAVYNIDEVG-----	55
RPOE_METBA 23051810	PTLLGEEVTVKVNALREKLEGQ-----VDKKGSLVAICKIVEIG-----	55
RPOE_ARCFU 11498717	PSKLGEDIEKVINSLLWEQFEGR-----LDREYGMIGIESIEEIG-----	55
RPOE_METTH 15678292	PDRFEEPLEEVAVEVLNETYVGR-----MDKNLGLLITVKEIEDIG-----	55
RPOE_PYRHO 14591652	PRMFTMDPKAAMLVLRDITYEGT-----YDRDEGVILSIVEVKEVG-----	55
RPOE_PYRAB 14521883	PRMFTMDPKAAMLVLRRETYEGK-----YDKDEGVILSIVEVKEVG-----	55
RPOE_PYRFU 18976628	PTMFTMDPKAAKIILRETYEGT-----YDKDEGVILSILEVKDIK-----	55
RPOE_METJA 15668573	PEEFGKDLKETVKKILMEKYEGR-----LDKDVGFVLSIVDVKDIG-----	55
RPOE_HALO 15790905	PEYLGAVGPDVLRKLLQDKLEGR-----MDEDVGSIVTVTEVHDLG-----	55
RPOE_THEAC 16082590	PEMLGEDYDVAVREVTKRSLEGKLVVVNEKTGVNEGKYLVISIISTKAVG-----	65
RPOE_THEVO 13541317	PDMLGEDYDKAVEEVTKRSLEGKLVVVNEKTGVNEGKYLVISIISTKAVG-----	65
RPOE_FERAC 22406866	PELLNDNYSDAVAEASKSTLEGKLVDI--QEGQKNIGKSYIVSVNSIEMKG-----	63
RPOE_METKA 20094887	PTQFTSDVEDAVLKALENDVEGKLFRE----DDTGEPIGFVVVFDIILDVE-----	61
RPOE_SULTO 15920582	PEYFGQPLDEIALQILRQEQEK-----MIKDLGLVLAVLDAKVSE-----	55
RPOE_SULAC 730613	PEYFGQSVDEIAIKILRQEQEK-----LIKDIGVVLGIVNAKASE-----	55
RPOE_SULSO 15897347	PNEFGKPLNEIALNELRQEQEK-----ILKDLGLVLAAILNVKTSE-----	55
RPOE_PYRAE 18314155	PTEFGKPLEDIALSQLKSRYEGK-----VLREVGYIVAVLNVKVGR-----	56
RPOE_AERPE 14600570	ASIYSSDLDKAALEHLRRLRLEGR-----IDEEMGVIVAVLDAKIVG-----	56
RPC25_YEAST 6322705	PDQFHRDTISAITHQLNNKFANK-----IIPNVGLCITIYDLLTVE-----	55
RPC25_SCHPO 19112860	PSNFWKPTKEALAEIHKKYANK-----VIQNIGLAICVYDFLKIG-----	55
RPC25_MOUSE 21313542	PWQFERKLNDSIAEELNKKLANK-----VVYNVGLCICLFDITKLE-----	55
RPC25_HUMAN 22068810	PWQFERKLNDSIAEELNKKLANK-----VVYNVGLCICLFDITKLE-----	55
RPC25_DROME 7294695	PDQFHLKLVDAVRDEIDRKLANK-----VLLNVGLCIALKDIVSLK-----	55
PPC25_ARATH 15222202	PHLLNLPLEDAIKSVLQNVFLDK-----VLADLGLCVSIYDIKSVE-----	55
RPC25_CAEEL 17566938	PHQLSSDQQIVIKKRLNERLANK-----IIPDLGLCICVYDINEIG-----	55
RPB7_SCHPO 19114885	PSYFGPRMQDYLRKLLADVEGT-----CSGQYGYIICVLDSENTID-----	56
RPB7_CANAL 12655858	PSFGQPMQDYLRKLLSDVEGT-----CTGQFGYIVCVLDSMNID-----	55
RPB7_YEAST 6320612	PSFFGPRMKQYLKTKLLEVEGS-----CTGKFGYIICVLDYDNDID-----	55
RPB7_DROME 23171325	PRYFGPQLLETVKQKLYSEVEGT-----CTGKYGFVIAVTTIDQI-----	54
RPB7_ANOGA 21288656	PRYFGPQLIETVKQKLYTEVEGT-----CTGKYGFVIAVTTIDDI-----	54
RPB7_HUMAN 4505947	PRYFGPNLLNTVKQKLFTEVEGT-----CTGKYGFVIAVTTIDNI-----	54
RPB7_CAEEL 17510349	PKYFGPNLNETIKMKLFNEVEGT-----CTGKYGFVIAVTTIDTI-----	54
RPB7_ARATH 15237831	PRFFGRNLKENLVSKLMKDVEGT-----CSGRHGFVVAITGIDTI-----	54
RPB7_SOYBN 1173137	PRYFGRNLRDNLVSKLMKDVEGT-----CSGRHGFVVAVTGIENI-----	54
RPB7_ENCCU 19074596	PNYLGPNIQALIEEYLLSKVEGS-----CSSS-GYVVMVLSIDEI-----	53
RPB7_PLAFA 23508072	PSQLGPRYQQYIEDMLRNSVEGQ-----CSVKYGYVICVIRIHS-----	54
RPB7_PLAYO 23481815	PSQLGPKYQQYIEDMLRNSIEGQ-----CTEKYGYIICVIRIMHS-----	54
RPB7_GILTH 13811986	AKLLNNQLKSTLIAQLITLTEGL-----PFGNVGSIIMIINIDNQK-----	55
RPA43_YEAST 6324916	PMYLENPLQGVMKQHLNPLVMKY-----NNKVGGVVLGYEGLKILDADPLSKEDT	100
RPA43_SCHPO 19113457	PGHSRDPLNAI-QEHMDSMILSK-----LPRINGIVLAYDNIRFL-----	57
RPA43_DROME 7297185	PYGMANFKHALHELLIRTKVGFY-----DSGLDGIVLGKIKIKVL-----	79
RPA43_ANOGA 21288304	PRDCEHIVKGVKRC-VTDKIGRY-----HAKLNGIVLGYAKIRVD-----	79
RPA43_HUMAN 20539462	PRYLNRKRTGIREQ-LDAELLRY-----SESLLGVPYIAYDNIKVV-----	99
RPA43_MOUSE 20847950	PRYLSRKRRTGIREQ-LDAELLRY-----SESLLGVPYIAYDNIIRVV-----	99
RPA43_ARATH 18410907	PSQSRNVFQIGICRELSLLFQYN-----ETFDGVLLAYDATVKSK-----	56

RPOE_METMA|21226698 ---EGHILVGDGAVYYDVTFEAIMFYPLQEIEIEGEVVEAVGFGVFIGM-GPMDGLLHVS 111
RPOE_METAC|20092492 ---EGHILVGDGAVYYDVTFEAIMFIPELQEIEIEGEVVEAVGFGVFIGM-GPMDGLLHVS 111
RPOE_METBA|23051810 ---EGHILVGDGAVYYDVTFEAIMFVPELQEIEIEGEVVEAVGFGVFIGM-GPMDGLLHVS 111
RPOE_ARCFU|11498717 ---EGRIIEGDGGVYFDVVFNAICFRPLHQEVVEGEVIEIVEFGAFVSI-GPFDALLHMS 111
RPOE_METTH|15678292 ---IGKIVMGDGAAYHEVTF TALFFKPELHEIVEGEVIEIAEFGAFVRI-GPVDGLVHVS 111
RPOE_PYRHO|14591652 ---DGIIVPGDGATYHEVVFVDFLVVWEPKRDEVVEGTVVDVVPFGAFIRI-GPMDGLVHIS 111
RPOE_PYRAB|14521883 ---DGIIVPGDGATYHEVVFVDFLVVWEPKQEQEVVEGTVVDVVPFGAFVRI-GPMDGLVHIS 111
RPOE_PYRFU|18976628 ---DGIIPPGDGATYHEVVFVDFLVVWEPKIHEVVEGYVADVMPFGAFIRI-GPIDGLVHIS 111
RPOE_METJA|15668573 ---EGKVHGDGGSAYHPVVFETLVYIPEMYELIEGEVVDVVEFGSFVRL-GPLDGLIHVS 111
RPOE_HALO|15790905 ---EGAVLPNRPGVYEAEFDAVTFPEMQUEIVDGEVVSQKFGAFVGI-GPVDGLLHVS 111
RPOE_THEAC|16082590 ---EGTIVHGDGGVYQEVKYRSLVYFPEMQUEIVDGEVVSQKFGAFVGI-GPVDGLLHVS 121
RPOE_THEVO|13541317 ---EGSIVHGDGGVYQEVKYRSLVYFPEMQUEIVDGEVVSQKFGAFVGI-GPVDGLLHVS 121
RPOE_FERAC|22406866 ---EGTIVHGDGGVYQSIKYSALAYFPMKHEVVDGIVVAVQKFGAFVGI-GPVDGLLHVS 119
RPOE_METKA|20094887 ---NEGIFPGDGASYHRVFRFRALVFRPVEREVVVEGTVRVEKEYGAFVRL-GPLDGLLHVS 117
RPOE_SULTO|15920582 ---EGYIIFGDGATYHEVSEFEMLAFVPIIQEVVEGEVNVQVDNYGVYVNI-GPVDGLAHIS 111
RPOE_SULAC|730613 ---EGFIIIFGDGATYHEVEFDMLVYTPIIHEVIEGEVVSQVDNYGVYVNM-GPVDGLVHIS 111
RPOE_SULSO|15897347 ---EGILVFGDGATYHEVEFDMLVYTPIIHEVIEGEVVSQVDNYGVYVNI-GPMDGLVHIS 111
RPOE_PYRAE|18314155 ---EGKIVFGDGGTYHRAVFTMLAFMPLDGEVVEGVVENAREMGMLVRI-GPILGFINKI 112
RPOE_AERPE|14600570 -DGIIPPVSGDPSIYYPVRYRVLAFKPVQLEIVRGVVTRADDFGLVVNL-GPLDGKVHRN 114
RPC25_YEAST|6322705 ---EGQLKPGDGSSYINVTFRAVVFKPFLGEIVTGWISKCTAEGIKVSLGIFDDIFIPQ 112
RPC25_SCHPO|19112860 ---EGIIKYGDGSSYMNVVFRLLIIFRPFGEVMLGKIKSCSEEGIRVTI-SFFDDIFIPK 111
RPC25_MOUSE|21313542 ---DAYVFPDGDGASHTKVHFRYVVFHFPFLDEILIGKIKGCSPEGVHVSL-GFFDDILIPP 111
RPC25_HUMAN|22068810 ---DAYVFPDGDGASHTKVHFRYVVFHFPFLDEILIGKIKGCSPEGVHVSL-GFFDDILIPP 111
RPC25_DROME|7294695 ---DSIILPGDGASHTKTEVLFVFRYVVFVFRPMVGTVITGKIRNCSREGVHVTL-GFFDDILIPH 111
PPC25_ARATH|15222202 ---GGFVLPDGDGAATYKVLRIVVFVFRPFVGEVIAAKFKESDANGLRLTL-GFFDDIYVPA 111
RPC25_CAEEL|17566938 ---DSYILPGEEDCRARVVKFRMIVFRPFVDEVIEAKVIGSSRQGLCLTI-QFFEDIFVPA 111
RPB7_SCHPO|19114885 -IDKGRVVPDGDGAEFEVVKYRAVLFWRPFVGEVVDVAVTTVNKMGFFANI-GPLNVFVSSH 114
RPB7_CANAL|12655858 -VGKGRILPSTGMAEFVVKYRAVLFWRPFVGEVVDVAVTTVNKMGFFANI-GPLNVFVSTH 113
RPB7_YEAST|6320612 -IQRGRIIPTDGSMAEFVVKYRAVLFWRPFVGEVVDVAVTTVNKMGFFANI-GPLNVFVTKH 113
RPB7_DROME|23171325 --GSGVIQPGQGFVVYPVKYKAIVFRPFKGEVLDVAVVQINKVGMFAEI-GPLSCFISHH 111
RPB7_ANOGA|21288656 --GSGTIQPGQGFVVYPVKYKAIVFRPFKGEVLDVAVVQINKVGMFAEI-GPLSCFISHH 111
RPB7_HUMAN|4505947 --GAGVIQPGRGFVLYPVKYKAIVFRPFKGEVLDVAVVQINKVGLFTEI-GPMSCFISRH 111
RPB7_CAEEL|17510349 --GHGLIQPGRGFVIYPVRYKAIVFRPFKGEVLDVAVVQINKVGLFTEI-GPLSCFISRH 111
RPB7_ARATH|15237831 --GKGLIRDGTGFVTFPVKYQCVVFRPFKGEILEAVVTLVNKMGFFAFAE-GPVQIFVSKH 111
RPB7_SOYBN|1173137 --GKGLIRDGTGFVTFPVKYQCVVFRPFKGEILEAVVTMVNKMGFFAFAE-GPVQIFVSNH 111
RPB7_ENCCU|19074596 --SESRIIL-TGETIFTVKYKALTLKPLKGEVIDANVETNKMGVFASV-GPLTVFISNH 109
RPB7_PLAFA|23508072 --EPGRVQDGTGMIVVKVYQAIIVFKPFKDEVLDAIVTDVNKLGFFAQA-GPLKIFISRT 111
RPB7_PLAYO|23481815 --EPGRVQDGTGMIVVKVYQAIIVFKPFKDEVLDAIVTDVNKLGFFAQA-GPLKIFISRT 111
RPB7_GILTH|13811986 --LYGKILPGFSSVLFKVNFAVVLKIFKGEIIDAIKVNITSFGIFASA-GILNIFISNK 112
RPA43_YEAST|6324916 SEKLIKITPDTPFGFTWCHVNLVWQPQVGDVLEGYIFIQSASHIGLLIHDAFNASIKKN 160
RPA43_SCHPO|19113457 -EKSAKVMYDPSFIFWVRVDLVFSPKKGDCLEGKINLVSPSHIGLLILGIFNASSIPRK 116
RPA43_DROME|7297185 -GQTAGLRADDPTMHLVINADFYVFRPKAGAILSGVVRHISRHHVSAVIYRVFNNTSIRFT 138
RPA43_ANOGA|21288304 -NALSALRLDPSYLVHVRTTIDYVVFQPRIGSTLRGTVNYSKFNVSVAVIYRVFNNTVVKLG 138
RPA43_HUMAN|20539462 -GELGDIYDDQGHILHNLIEADFVIFCPEPGQKLMGIVNKVSSSHIGCLVHGCFNASSIPKP 158
RPA43_MOUSE|20847950 -GELGDIYDDQGHILHNLIEADFVIFCPEPGQKLMGIVNKVSSSHIGCLVHGCFNASSIPKP 158
RPA43_ARATH|18410907 --QAKILTGLHPYFGVRVNRLLLLFDPKPKSFVEGKIVKISPESIHVIVLGFSAAVITDV 114

RPOE_METMA 21226698	QITDD-----FISYDAKNARLVTKS-----GGKSIAEGDHVRARIVAVS-----	150
RPOE_METAC 20092492	QITDD-----FISYDAKNARLVTKN-----GGKSIAEGDHVRARIVAVS-----	150
RPOE_METBA 23051810	QITDD-----FISYDAKNARLVTKN-----GGKSIAEGDHVRARVVAVS-----	150
RPOE_ARCFU 11498717	QVTDD-----YMVFDEKNKRLVGRE-----TKKVLQEGDKVRARIVSLS-----	150
RPOE_METTH 15678292	QVTDD-----YITYDPKKGSLTGKE-----SGRRLDEGLVRRARIVALS-----	150
RPOE_PYRHO 14591652	QLMDD-----YVVYDERNKQFVGKE-----KKYLLKIGDAVRARIITVS-----	150
RPOE_PYRAB 14521883	QLMDD-----YVVYDERNKQFVGKE-----KKYLLKIGDAVRARIITVS-----	150
RPOE_PYRFU 18976628	QLMDD-----YVVYDERNKQFVGKE-----KKYLLKIGDLVRARIINIS-----	150
RPOE_METJA 15668573	QIMDD-----YVSYDPKREAIIGKE-----TGKVLIEIGDYVRARIVAIS-----	150
RPOE_HALO 15790905	QISDE-----YLAFDEENQQLASRE-----SNQVLGTGDSVRARIVTKS-----	150
RPOE_THEAC 16082590	QIMDD-----RIDIDLLENKRFIGKE-----TKRDLKVGDKVRVRIVAMN-----	160
RPOE_THEVO 13541317	QIMDD-----RIDVDLENKRFIGKD-----TKRDLKVGDKVRVRIVALN-----	160
RPOE_FERAC 22406866	QIMDD-----AINIDMENQRIVGKD-----SKMELKVGDKIRVRIVALN-----	158
RPOE_METKA 20094887	QILDE-----YMYDYGAREALVGEE-----TGRELKRGDVIKVMIGVS-----	156
RPOE_SULTO 15920582	QITDD-----NLKFDQNRGILIGER-----SKKIIQKGDVRARIISV-----	149
RPOE_SULAC 730613	QITDD-----NLKFDSNRGILIGEK-----SKKSITKGDVRAMIISA-----	149
RPOE_SULSO 15897347	QITDD-----TLKYDNVRGIIIFGEK-----SKKVIQKGDKVRARIVISVA-----	150
RPOE_PYRAE 18314155	HIMDDP-----NIFFDASTKSYIGER-----TKRRVSVGDVVRARITGVSFTT--	155
RPOE_AERPE 14600570	QIMDE-----GVELLPDRSGFVGLA-----SKREIRVGDVVRARVVHVS-----	153
RPC25_YEAST 6322705	NMLF-----EGCYTPEESAWIWPMDDE-----TKLYFDVNEKIRFRIEREVFDVK	159
RPC25_SCHPO 19112860	DMLF-----DPCVFRPDERAWVWKIEGEDGSEG--TELYFDIDEEIRFQIESEDFVDIS	163
RPC25_MOUSE 21313542	ESLQ-----QPAKFDEAEQVWVWEYETEEGA----HDLYMDTGEEIRFRVVDSEFVDT	161
RPC25_HUMAN 22068810	ESLQ-----QPAKFDEAEQVWVWEYETEEGA----HDLYMDTGEEIRFRVVDSEFVDT	161
RPC25_DROME 7294695	AALQ-----HPSRFDEAEQAVWWEYPLEDGAK---HDLFMDVGEPIKFRVSREIFEETS	162
PPC25_ARATH 15222202	PLMPKPNRC-EPDPYNRKQMIWVWEY----GEPK--EDYIVDDACQIKFRVESISYPSVP	164
RPC25_CAEEL 17566938	EKLP-----EPHVFEEGQVWVWEYAEQEDGEPP--AKLYMDPGKIVRFRVTEIIFKDLK	163
RPB7_SCHPO 19114885	LVPDP-----MKFDPTANPPNYSGEDQ-----VIEKGSNVRKIVGTR-----	152
RPB7_CANAL 12655858	LIPSD-----MKFNPSANPPAYVSPDE-----NIEKGSRVRLKIVGTR-----	151
RPB7_YEAST 6320612	LMPQD-----LTFNAGSNPPSYQSSD-----VITIKSRIRVKIEGCI-----	151
RPB7_DROME 23171325	SIPAD-----MQFCPNGNPPCYKSKDED-----VVISGEDKIRLKIVGTR-----	151
RPB7_ANOGA 21288656	SIPAD-----MQFCPNGAPPYRAINGE-----SVIAAEDKIRLKIVGTR-----	151
RPB7_HUMAN 4505947	SIPSE-----MEFDPNSNPPCYKTMDED-----IVIQQDDEIRLKIVGTR-----	151
RPB7_CAEEL 17510349	CIPPD-----MEFDPNSEKPCYKTNDEA-----NVIRNDDEIRVKLIGTR-----	151
RPB7_ARATH 15237831	LIPDD-----MEF-QAGDMPNYTTSDGS-----VKIQKECEVRLKIIIGTR-----	150
RPB7_SOYBN 1173137	LIPDD-----MEF-QSGDMPNYTTSDGS-----VKIQKDSEVRLKIIIGTR-----	150
RPB7_ENCCU 19074596	QIP-----NFLLENE-----ITKNVMIRLKIIGTK-----	134
RPB7_PLAFA 23508072	AIPKY-----FEYSEDLHYPCFSSGDY-----NIKPQTTVRIKIQGIR-----	149
RPB7_PLAYO 23481815	AIPKY-----FEYNEDAHYPCFSSGSH-----NIKPQTTVRLKIQGIR-----	149
RPB7_GILTH 13811986	FISQD-----LISQSQTLFNFKNSTI-----NIKKNDIIRCKIILNLK-----	150
RPA43_YEAST 6324916	NIPVDWTF----VHNDVEEDADVINTDENNGNNNNEDNKDSNGGSNSLGKFSFGNRSLSGH	216
RPA43_SCHPO 19113457	SIPKDWIF----IEPDTTEEQGRWKTN-----DGNILEPGKDLEFVVDG-----	149
RPA43_DROME 7297185	NQSASRE----DIAMDQEIIRIKNFD-----ISNLMPYIEGELLLENGEAPK	182
RPA43_ANOGA 21288304	QQTARLH----ALKNGSDISFTVNSCD-----MKSELPVIEGELVLNGVIPVR	182
RPA43_HUMAN 20539462	EQLSAEQWQTMEINMGDELEFEVFRLD-----SDAAGVFCIRGKLNITSLQFKR	207
RPA43_MOUSE 20847950	EQMSYEEWQTLEIHVGDELEFDVFRLD-----SDSAGVFCIRGKLSSTSLQLKH	207
RPA43_ARATH 18410907	DIREEF-----KYRVRDGESEFVSR-----SHKRHALKLGTMRLRLQVQSF	155

RPOE_METMA 21226698	WLEEARRKKQPQETPGEEAA-----	194
RPOE_METAC 20092492	WLEEARRKKQPQEAPGKEAA-----	194
RPOE_METBA 23051810	WLEEARRKKQSHEAVPEGAA-----	194
RPOE_ARCFU 11498717	WIEEEIEKLMKESGV-----	189
RPOE_METTH 15678292	WIEEEKRKSJK-----	184
RPOE_PYRHO 14591652	WIEKEKRKEKEGKK-----	188
RPOE_PYRAB 14521883	WIEKEKRKEKEGKK-----	188
RPOE_PYRFU 18976628	WIEKEKKKEKEEGKK-----	189
RPOE_METJA 15668573	WIEEEKAKKQNE-----	187
RPOE_HALO 15790905	WLQADREQADAASEGE-----	190
RPOE_THEAC 16082590	WLAKEASQ-----	192
RPOE_THEVO 13541317	WLEKEAQA-----	192
RPOE_FERAC 22406866	WMKKENVNN-----	191
RPOE_METKA 20094887	WWE-----	183
RPOE_SULTO 15920582	WISQELTKASK-----	183
RPOE_SULAC 730613	MDKSRNSKGEK-----	183
RPOE_SULSO 15897347	WITQTKK-----	180
RPOE_PYRAE 18314155	WVKEKKPAAKKA-----	191
RPOE_AERPE 14600570	WVAPEAKKG-----	186
RPC25_YEAST 6322705	WWE-----	212
RPC25_SCHPO 19112860	WWK-----	203
RPC25_MOUSE 21313542	WWTSN-----	204
RPC25_HUMAN 22068810	WWTS-----	204
RPC25_DROME 7294695	WWDQQGKDDEQDDEEDEEYDDEDGEGACEE-----	240
PPC25_ARATH 15222202	WWDS-----YEQVDQEE-----	204
RPC25_CAEEL 17566938	WWAAEDEDDEAVEDEQDEQEEVVIQPKKEIROPQEEVROPVKIKEEPV-----	239
RPB7_SCHPO 19114885	-----	-----
RPB7_CANAL 12655858	M-----	173
RPB7_YEAST 6320612	-----	-----
RPB7_DROME 23171325	N-----	173
RPB7_ANOGA 21288656	S-----	173
RPB7_HUMAN 4505947	-----	172
RPB7_CAEEL 17510349	AE-----	174
RPB7_ARATH 15237831	DPAAA-----	176
RPB7_SOYBN 1173137	DPATV-----	176
RPB7_ENCCU 19074596	-----	-----
RPB7_PLAFA 23508072	SNILQVM-----	177
RPB7_PLAYO 23481815	SNALQVM-----	177
RPB7_GILTH 13811986	-----	-----
RPA43_YEAST 6324916	VSVDGTLISDAADEEGNGYNSSRADEEGNGYNSSRSQAESLPIVSNKKIVFDDEVSIENK-----	289
RPA43_SCHPO 19113457	-----	-----
RPA43_DROME 7297185	NGENGDTTKTKKVKKEIKSEPI-----	253
RPA43_ANOGA 21288304	EKSNGGPVETVRIKQEVLSDDDEPSAVVEQOPTASTQGKAKSKKNGTNGVHLNGSAATP-----	284
RPA43_HUMAN 20539462	NNANGIWEEEPKKKKKKKKKHQEVQDQDPVFGSDSSGYQSDHKKKKKKRKHSEEAFTPP-----	324
RPA43_MOUSE 20847950	DNVNDFFEPEPKKKKKKKRHRQ-EDQDPIFQASDSSGYQSDHNKKKKKKRKHSEANFESP-----	326
RPA43_ARATH 18410907	EKKSEEALPTDRDHKRRKLA-----	196

RPOE_METMA 21226698	-----	
RPOE_METAC 20092492	-----	
RPOE_METBA 23051810	-----	
RPOE_ARCFU 11498717	-----	
RPOE_METTH 15678292	-----	
RPOE_PYRHO 14591652	-----	
RPOE_PYRAB 14521883	-----	
RPOE_PYRFU 18976628	-----	
RPOE_METJA 15668573	-----	
RPOE_HALO 15790905	-----	
RPOE_THEAC 16082590	-----	
RPOE_THEVO 13541317	-----	
RPOE_FERAC 22406866	-----	
RPOE_METKA 20094887	-----	
RPOE_SULTO 15920582	-----	
RPOE_SULAC 730613	-----	
RPOE_SULSO 15897347	-----	
RPOE_PYRAE 18314155	-----	
RPOE_AERPE 14600570	-----	
RPC25_YEAST 6322705	-----	
RPC25_SCHPO 19112860	-----	
RPC25_MOUSE 21313542	-----	
RPC25_HUMAN 22068810	-----	
RPC25_DROME 7294695	-----	
PPC25_ARATH 15222202	-----	
RPC25_CAEEL 17566938	-----	
RPB7_SCHPO 19114885	-----	
RPB7_CANAL 12655858	-----	
RPB7_YEAST 6320612	-----	
RPB7_DROME 23171325	-----	
RPB7_ANOGA 21288656	-----	
RPB7_HUMAN 4505947	-----	
RPB7_CAEEL 17510349	-----	
RPB7_ARATH 15237831	-----	
RPB7_SOYBN 1173137	-----	
RPB7_ENCCU 19074596	-----	
RPB7_PLAFA 23508072	-----	
RPB7_PLAYO 23481815	-----	
RPB7_GILTH 13811986	-----	
RPA43_YEAST 6324916	ESHKELDLPEVKEDNGSEIVYEENTSESNDGESSDSD	326
RPA43_SCHPO 19113457	-----	
RPA43_DROME 7297185	-----	
RPA43_ANOGA 21288304	ASADAANGETTTTTT-----	298
RPA43_HUMAN 20539462	LKCSPKRKGKSNFL-----	338
RPA43_MOUSE 20847950	KKRQ-----	330
RPA43_ARATH 18410907	-----	