

Supplementary Material (ESI) for Molecular BioSystems
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CLUSTAL 2.0.12 multiple sequence alignment

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-----MRGSHHHHHHGASMTGGQ 19

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-----M 1

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-----M 1

-----M 1

-----M 2

-----M 2

-----M 2

-----M 2

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2DD9_D | PDBID | CHAIN | SEQUENCE -----

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2210_A1|PDBID|CHAIN|SEQUENCE -----SHMSVIAKQMTYKYVMSGTVNGHYFEVEGDGKPKPYEG 41
226Y_A1|PDBID|CHAIN|SEQUENCE -----SHMSVIAKQMTYKYVMSGTVNGHYFEVEGDGKPKPYEG 41
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26X0_B1|PDBID|CHAIN|SEQUENCE -----SMVSIVKDPDKIKLRMEGAVNGHPPFAIEGVLGKPFPEGK 57
226X_A1|PDBID|CHAIN|SEQUENCE GRDLYDDDDKDPMSVIAKQMTYKYVMSGTVNGHYFEVEGDGKPKPYEG 71
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12UX_A1|PDBID|CHAIN|SEQUENCE -----MSAIKDPDKIKLRMEGAVNGHFFVITDGGTKPFPEGK 40

Supplementary Material (ESI) for Molecular BioSystems
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1XA9_A | PDBID | CHAIN | SEQUENCE -----MAHSHKGLKEEMTKYHMEGCVNGHKFVITGEGIYPPFKGKQ 42
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2G6X_A | PDBID | CHAIN | SEQUENCE -----LPAMEIECRITGTLNGVEFELVGGGEGTPEQGRM 34
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2D09_D | PDBID | CHAIN | SEQUENCE -----TTFKIESRIHGNLNGEKFELVGGVGVG--EEGR 31
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Supplementary Material (ESI) for Molecular BioSystems
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2ZMW_A | PDBID | CHAIN | SEQUENCE IMQNSVDWEPSTEKITAS-----DGV 155
2ZMU_A | PDBID | CHAIN | SEQUENCE IMQNSVDWEPSTEKITAS-----DGV 155
2Z06_A | PDBID | CHAIN | SEQUENCE IAQNKTLGWEPSTEKMTVR-----DGS 182
2Z07_A | PDBID | CHAIN | SEQUENCE IMQNKTLGWEPSTEKMTVR-----DGS 155
3B8X_B | PDBID | CHAIN | SEQUENCE VMQKKTLGWEASTEMLYPA-----DGG 165
3B8X_A | PDBID | CHAIN | SEQUENCE VMQKKTLGWEASTEMLYPA-----DGG 165
3B8B_A | PDBID | CHAIN | SEQUENCE VMQKKTLGWEASTEMLYPA-----DGG 165
3B8C_A | PDBID | CHAIN | SEQUENCE VMQKKTLGWEASTEMLYPA-----DGG 165
3H10_A | PDBID | CHAIN | SEQUENCE VMQKKTLGWEASTEMLYPA-----DGG 153

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3H1R_A PDBID CHAIN SEQUENCE	VMQKKT LGWEAHTM LYP A-----DGG 153
3M22_A PDBID CHAIN SEQUENCE	VMQKKT LGWEANTE M LYP A-----DGG 157
3M24_A PDBID CHAIN SEQUENCE	VMQKKT LGWEAFTE T LYP A-----DGG 154
3IP2_A PDBID CHAIN SEQUENCE	VMQKKT LGWEASTE M LYP A-----DGG 157
3E5T_A PDBID CHAIN SEQUENCE	VMQKKT GWEPNTE M LYP A-----DGG 166
3E5V_A PDBID CHAIN SEQUENCE	VMQKKT GWEPSTE M LYP A-----DGG 166
1UI5_B PDBID CHAIN SEQUENCE	VMQKKT GWEPNTE M LYP A-----DGG 155
3E5W_A PDBID CHAIN SEQUENCE	VMQKKT GWEPSTE M LYP A-----DGG 166
2A50_A PDBID CHAIN SEQUENCE	VMQNKAGR WEPATE I VYEV-----DGV 164
2A52_A PDBID CHAIN SEQUENCE	VMQNKAGR WEPATE I VYEV-----DGV 164
1XMZ_A PDBID CHAIN SEQUENCE	VMQNKAGR WEPGTE I VYEV-----DGV 164
2A54_C PDBID CHAIN SEQUENCE	VMQNKAGR WEPSTE I VYEV-----DGV 164
2A53_A PDBID CHAIN SEQUENCE	VMQNKAGR WEPSTE I VYEV-----DGV 164
2A56_A PDBID CHAIN SEQUENCE	VMQNKAGR WEPSTE I VYEV-----DGV 164
1XQM_A PDBID CHAIN SEQUENCE	VMQNKVGR WEPGTE I VYEV-----DGV 153
3CFH_L PDBID CHAIN SEQUENCE	VMQNKAGG WEPGCE I LYEV-----DGV 153
3CFH_S PDBID CHAIN SEQUENCE	VMQNKAGG WEPGCE I LYEV-----DGV 153
3CFA_L PDBID CHAIN SEQUENCE	VMQNKAGG WEPGCE I LYEV-----DGV 153
1Y2W_A PDBID CHAIN SEQUENCE	VMQNKSGG WEPSTE V VYVE-----NGV 151
2I85_A PDBID CHAIN SEQUENCE	VMQKKTQG WEPCCEMRYTR-----DGV 156
2I86_A PDBID CHAIN SEQUENCE	VMQKKTQG WEPCCEMRYTR-----DGV 156
2C9T_A PDBID CHAIN SEQUENCE	VMQKKT CGWEPSTE I VYPR-----DGG 153
1G7K_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASTE RLYPR-----DGV 167
1ZG0_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASTE RLYPR-----DGV 156
1G6X_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASTE RLYPR-----DGV 156
1ZG0_H PDBID CHAIN SEQUENCE	VMQKKT MGWEASTE RLYPR-----DGV 156
1ZGP_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASTE RLYPR-----DGV 156
2H80_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASTE RLYPR-----DGV 150
2V4E_A PDBID CHAIN SEQUENCE	VMQKKT MGWEPSTE RLYPR-----DGV 156
2V4F_A PDBID CHAIN SEQUENCE	VMQKKT MGWEPSTE RLYPR-----DGV 151
2V4D_A PDBID CHAIN SEQUENCE	VMQKKT AGWEPSTE KLYPQ-----DGV 156
2H5P_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASER MYPE-----DGA 161
2H5R_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASER MYPE-----DGA 161
2H50_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASER MYPE-----DGA 161
2QLG_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASER MYPE-----DGA 157
2QLL_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASER MYPE-----DGA 157
2QLH_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASER MYPE-----DGA 157
2H50_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASER MYPE-----DGA 161
3KCS_A PDBID CHAIN SEQUENCE	VMQKKT MGWEALSER MYPE-----DGA 161
3KCT_A PDBID CHAIN SEQUENCE	VMQKKT MGWEALSER MYPE-----DGA 161
3LF3_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASTER MYPE-----DGA 156
3LF4_A PDBID CHAIN SEQUENCE	VMQKKT MGWEASTER MYPE-----DGA 156
2P4M_A PDBID CHAIN SEQUENCE	VMQKKTQG WEPSSER L FAR-----GGM 152
2ARL_A PDBID CHAIN SEQUENCE	VMQKKTQG WEPSSER L FAR-----GGM 152
1M0V_A PDBID CHAIN SEQUENCE	VMQKKTQG WEPSSER L FAR-----GGM 152
1M0U_A PDBID CHAIN SEQUENCE	VMQKKTQG WEPSSER L FAR-----GGM 152
2WH5_A PDBID CHAIN SEQUENCE	VMQKKTQG WEPSTE R L FAR-----DGM 173
2WHT_A PDBID CHAIN SEQUENCE	VMQKKTQG WEPSTE R L FAR-----DGM 173
2WHU_A PDBID CHAIN SEQUENCE	VMQKKTQG WEPSTE R L FAR-----DGM 173
3IR8_A PDBID CHAIN SEQUENCE	VMQKKTQG WEPSTE R L FAR-----DGM 154
3CGL_A PDBID CHAIN SEQUENCE	VVQKKT TGWEPSTE RLYPR-----DGV 167
2Z6Z_A PDBID CHAIN SEQUENCE	VMQKRTVK WEPSTE KLYVR-----DGV 185
2I0V_A PDBID CHAIN SEQUENCE	VMQKRTVK WEPSTE KLYVR-----DGV 185
2POX_A PDBID CHAIN SEQUENCE	VMQKRTVK WEPSTE KLYVR-----DGV 185
2IEZ_A PDBID CHAIN SEQUENCE	VMQKRTVK WEPSTE KLYVR-----DGV 152
2Z10_A PDBID CHAIN SEQUENCE	VMQKRTVK WEPSTE KLYVR-----DGV 155
2Z6Y_A PDBID CHAIN SEQUENCE	VMQKRTVK WEPSTE KLYVR-----DGV 155
2GZ2_A PDBID CHAIN SEQUENCE	VMQKRTVK WEPSTE KLYVR-----DGV 171
2GX0_B PDBID CHAIN SEQUENCE	VMQKRTVK WEPSTE KLYVR-----DGV 171
2Z6X_A PDBID CHAIN SEQUENCE	VMQKRTVK WEPSTE KLYVR-----DGV 185
3LS3_A PDBID CHAIN SEQUENCE	VMQKRTVK WELSTE KLYVR-----DGV 165
3LSA_A PDBID CHAIN SEQUENCE	VMQKRTVK WELSTE KLYVR-----DGV 165
2DDC_A PDBID CHAIN SEQUENCE	VMQRKTVK WESSTE KMYVR-----DGV 155
2DD0_A PDBID CHAIN SEQUENCE	VMQRKTVK WESSTE KMYVR-----DGV 155
1X55_A PDBID CHAIN SEQUENCE	VMQRKTVK WEPSTE KMYVR-----DGV 155
2VVI_A PDBID CHAIN SEQUENCE	VMQKKT LK WEPSTE KMYVR-----DGV 154
2VHL_A PDBID CHAIN SEQUENCE	VMQKKT LK WEPSTE KMYVR-----DGV 154
2VJ2_A PDBID CHAIN SEQUENCE	VMQKKT LK WEPSTE KMYVR-----DGV 154
1ZUX_A PDBID CHAIN SEQUENCE	VMQKKT LK WEPSTE KMYVR-----DGV 152
28TJ_A PDBID CHAIN SEQUENCE	VMQKKT LK WEPSTE KMYVR-----DGV 152
2GW3_A PDBID CHAIN SEQUENCE	VMQKKT LK WEASTE KMYLR-----DGV 154
2GW4_A PDBID CHAIN SEQUENCE	VMQKKT LK WEASTE KMYLR-----DGV 154
2OTE_A PDBID CHAIN SEQUENCE	VMQKKT LK WEPSTE ILYVR-----DGV 151
20TB_A PDBID CHAIN SEQUENCE	VMQKKT LK WEPSTE ILYVR-----DGV 151
2HQK_A PDBID CHAIN SEQUENCE	VMQKKT TG WDASTE RMYVR-----DGV 151
2VZX_A PDBID CHAIN SEQUENCE	VMQKKT LK WEPSTE KLYVR-----DGL 152
3ADF_A PDBID CHAIN SEQUENCE	VMQKKT LK WEPSTE KMYVE-----DGV 155
2ICR_A PDBID CHAIN SEQUENCE	VNRKMTTN WEPSC EKIIPVPS-----GKI 168
2FL1_A PDBID CHAIN SEQUENCE	VNRKMTTN WEPSC EKIIPVPS-----GKI 157
20GR_A PDBID CHAIN SEQUENCE	VNRKMTTN WEA SCKEIMPVPK-----GKI 160
1XAE_A PDBID CHAIN SEQUENCE	VNRKMTTN WEA SCKEIMPVPK-----GKI 160
1XAG_A PDBID CHAIN SEQUENCE	VNRKMTTN WEA SCKEIMPVPK-----GKI 160
2PXS_A PDBID CHAIN SEQUENCE	VNRKMTDN WEPSC EKIIPVPS-----GKI 157
2PXW_A PDBID CHAIN SEQUENCE	VNRKMTDN WEPSC EKIIPVPS-----GKI 157
20JK_A PDBID CHAIN SEQUENCE	VNRKMTDN WEPSC EKIIPVPS-----GKI 160
2RH7_A PDBID CHAIN SEQUENCE	VMQDQIVGMQPSY ESMYTN-----VTS 156
2C9J_H PDBID CHAIN SEQUENCE	VMKNEI VME E PAEET L TAK-----NGV 152
2G6X_A PDBID CHAIN SEQUENCE	IFTDKI IRSNATVEHLHPMG-----DND 149
2G6Y_A PDBID CHAIN SEQUENCE	IFTDKI IRSNATVEHLHPMG-----DND 149
2G30_A PDBID CHAIN SEQUENCE	IFTDKI IRSNATVEHLHPMG-----DND 149
2DD7_A PDBID CHAIN SEQUENCE	IFKDTIVK SCPTVDLMLPMS-----GNI 146
2DD9_D PDBID CHAIN SEQUENCE	IFKDTIVK SCPTVDLMLPMS-----GNI 146
:	:
3EKJ_A PDBID CHAIN SEQUENCE	GITTKQLGTVMRSLGQNPTEAELQDMIN---EVDADGNGTIDFPFLTMM 375
3EVP_A PDBID CHAIN SEQUENCE	-----
3EKH_A PDBID CHAIN SEQUENCE	TIITKELGTVMRSLGQNPTEAELQDMIN---EVDADGNGTIDFPFLTMM 375
3EVR_A PDBID CHAIN SEQUENCE	TIITKELGTVMRSLGQNPTEAELQDMIN---EVDADGNGTIDFPFLTMM 338
3EK7_A PDBID CHAIN SEQUENCE	TIITKELGTVMRSLGQNPTEAELQDMIN---EVDADGNGTIDFPFLTMM 375
3EVL_A PDBID CHAIN SEQUENCE	TIITKELGTVMRSLGQNPTEAELQDMIN---EVDADGNGTIDFPFLTMM 375
3EVL_A PDBID CHAIN SEQUENCE	TIITKELGTVMRSLGQNPTEAELQDMIN---EVDADGNGTIDFPFLTMM 375
3EVA_A PDBID CHAIN SEQUENCE	TIITKELGTVMRSLGQNPTEAELQDMIN---EVDADGNGTIDFPFLTMM 375
3EK4_A PDBID CHAIN SEQUENCE	TIITKELGTVMRSLGQNPTEAELQDMIN---EVDADGNGTIDFPFLTMM 375
3EK8_A PDBID CHAIN SEQUENCE	TIITKELGTVMRSLGQNPTEAELQDMIN---EVDADGNGTIDFPFLTMM 375
2G3D_A PDBID CHAIN SEQUENCE	IKANFKIRHNIE-----DGSVQLADHYQ---QNTPIGDGPVLLPDNHYLS 203
2G2S_A PDBID CHAIN SEQUENCE	IKANFKIRHNIE-----DGSVQLADHYQ---QNTPIGDGPVLLPDNHYLS 203

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2A48_A1	PDBID CHAIN SEQUENCE	HRIARTDLKGGN-SVQLTEH-----AVAHITSVVPF-----	240
2A47_A1	PDBID CHAIN SEQUENCE	TRIARTDLKGGN-SVQLTEH-----AVAHITSVVPF-----	240
22M0_A1	PDBID CHAIN SEQUENCE	HRLVLR---KTEGN-ITELVED-----AVAHSELEHHHHH-----	226
22M1_A1	PDBID CHAIN SEQUENCE	HRLVLR---KTEGN-ITELVED-----AVAHSELEHHHHH-----	226
2206_A1	PDBID CHAIN SEQUENCE	HR1SS---VWGT-KIQMED-----ATAHLYPFGVPCQ-----	254
2207_A1	PDBID CHAIN SEQUENCE	HR1SS---VWGT-KIQMED-----ATAHLYPFGS-----	224
38X9_B1	PDBID CHAIN SEQUENCE	RRLERIKEADKET-YVEQHEV-----AVARYCD-LPSKLGHLN-----	245
38X9_A1	PDBID CHAIN SEQUENCE	RRLERIKEADKET-YVEQHEV-----AVARYCD-LPSKLGHLN-----	245
38X8_A1	PDBID CHAIN SEQUENCE	RRLERIKEADKET-YVEQHEV-----AVARYCD-LPSKLGHLN-----	245
38X7_A1	PDBID CHAIN SEQUENCE	RRLERIKEADKET-YVEQHEV-----AVARYCD-LPSKLGHLN-----	245
3H10_A1	PDBID CHAIN SEQUENCE	YRLERIKEADKET-YVEQHEV-----AVARYCD-LPSKLGHLN-----	233
3H1R_A1	PDBID CHAIN SEQUENCE	YRLERIKEADKET-YVEQHEV-----AVARYCD-LPSKLGHLN-----	233
3M22_A1	PDBID CHAIN SEQUENCE	HLRERIKEADKET-YVEQHEV-----AVARYCD-LPSKLGHLN-----	237
3M24_A1	PDBID CHAIN SEQUENCE	YRLERIKEANNET-YVEQHEV-----AVARYCD-LPSKLGHLN-----	234
3IP2_A1	PDBID CHAIN SEQUENCE	RRLERIKEADNET-YVEQHEV-----AVARYCD-LPSKLGHLNGMDELY	243
3E5T_A1	PDBID CHAIN SEQUENCE	HRLERLEESDKEM-FVQHEH-----AVAKFCD-LPSKLGRL-----	244
3E5V_A1	PDBID CHAIN SEQUENCE	HRLERLEESDKEM-FVQHEH-----AVAKFCD-LPSKLGRL-----	244
1U1S_B1	PDBID CHAIN SEQUENCE	HRLERLEESDKEM-FVQHEH-----AVAKFCD-LPSKLGRLGRL-----	237
3E5W_A1	PDBID CHAIN SEQUENCE	HRLERLEESDKEM-FVQHEH-----AVAKFCD-LPSKLGRL-----	244
2A50_A1	PDBID CHAIN SEQUENCE	HR1E1MEEVEKGG-CYKQYEA-----AVGRYCDAAAPSKLGHN-----	243
2A52_A1	PDBID CHAIN SEQUENCE	HR1E1MEEVEKGG-CYKQYEA-----AVGRYCDAAAPSKLGHN-----	243
1XMZ_A1	PDBID CHAIN SEQUENCE	HR1E1MEEVEKGG-CYKQYEA-----AVGRYCDAAAPSKLGHN-----	243
2A54_C1	PDBID CHAIN SEQUENCE	HR1E1MEEVEKGG-CYKQYEA-----AVGRYCDAAAPSKLGHN-----	243
2A53_A1	PDBID CHAIN SEQUENCE	HR1E1MEEVEKGG-CYKQYEA-----AVGRYCDAAAPSKLGHN-----	243
2A56_A1	PDBID CHAIN SEQUENCE	HR1E1MEEVEKGG-CYKQYEA-----AVGRYCDAAAPSKLGHN-----	243
1XQX_A1	PDBID CHAIN SEQUENCE	HR1E1MEEVEKGG-CYKQYEA-----AVGRYCDAAAPSKLGHN-----	232
3CFE_L1	PDBID CHAIN SEQUENCE	HR1EVK-EVQGG-HYEQYEA-----AVARYCDAAAPSKLGH-----	231
3CFH_S1	PDBID CHAIN SEQUENCE	HR1EVK-EVQGG-HYEQYEA-----AVARYCDAAAPSKLGH-----	231
3CFA_L1	PDBID CHAIN SEQUENCE	HR1EVK-EVQGG-HYEQYEA-----AVARYCDAAAPSKLGH-----	231
1Z7W_A1	PDBID CHAIN SEQUENCE	IRLQML-RKKKDE-YFELYEA-----SVARYSD-LPEKAN-----	225
2185_A1	PDBID CHAIN SEQUENCE	HRPE1VKVSENGT-LFEQHE-----SVARYCQTCPKSLGH-----	235
2186_A1	PDBID CHAIN SEQUENCE	HRPE1VKVSENGT-LFEQHE-----SVARYCQTCPKSLGH-----	235
2C91_A1	PDBID CHAIN SEQUENCE	LRMEKLNISDDWK-TVEQHE-----VWASYSQ-VPSKLGHN-----	228
167K_A1	PDBID CHAIN SEQUENCE	SKLDITSHNEDYT-IVEQYER-----TEGRHHLFL-----	226
1ZG0_A1	PDBID CHAIN SEQUENCE	SKLDITSHNEDYT-IVEQYER-----TEGRHHLFL-----	225
16XA_A1	PDBID CHAIN SEQUENCE	SKLDITSHNEDYT-IVEQYER-----TEGRHHLFL-----	225
1ZGQ_H1	PDBID CHAIN SEQUENCE	SKLDITSHNEDYT-IVEQYER-----TEGRHHLFL-----	225
1ZGP_A1	PDBID CHAIN SEQUENCE	SKLDITSHNEDYT-IVEQYER-----TEGRHHLFL-----	225
2H8Q_A1	PDBID CHAIN SEQUENCE	SKLDITSHNEDYT-IVEQYER-----TEGRHHLFL-----	219
2VAE_A1	PDBID CHAIN SEQUENCE	SKLDITSHNEDYT-IVEQYER-----AEGRHHLFL-----	225
2V4E_A1	PDBID CHAIN SEQUENCE	SKLDITSHNEDYT-IVEQYER-----TEARHHLFL-----	220
2VAD_A1	PDBID CHAIN SEQUENCE	SKLDITSHNEDYT-IVEQYER-----AEGRHSGSQ-----	225
2H5P_A1	PDBID CHAIN SEQUENCE	IKLDITSHNEDYT-IVELYER-----AEGRHSTGMDELYK-----	236
2H5R_A1	PDBID CHAIN SEQUENCE	IKLDITSHNEDYT-IVELYER-----AEGRHSTGMDELYK-----	236
2H5O_A1	PDBID CHAIN SEQUENCE	IKLDITSHNEDYT-IVEQYER-----AEGRHSTGMDELYK-----	236
2QLG_A1	PDBID CHAIN SEQUENCE	IKLDITSHNEDYT-IVEQYER-----AEGRHSTGA-----	226
2QLL_A1	PDBID CHAIN SEQUENCE	IKLDITSHNEDYT-IVEQYER-----AEGRHSTGA-----	226
2QLH_A1	PDBID CHAIN SEQUENCE	IKLDITSHNEDYT-IVEQYER-----AEGRHSTGA-----	226
2H5Q_A1	PDBID CHAIN SEQUENCE	IKLDITSHNEDYT-IVEQYER-----AEGRHSTGMDELYK-----	236
3KCS_A1	PDBID CHAIN SEQUENCE	RKLDITSHNEDYT-IVEQYER-----AEGRHSTGMDELYK-----	236
3KCT_A1	PDBID CHAIN SEQUENCE	RKLDITSHNEDYT-IVEQYER-----AEGRHSTGMDELYK-----	236
3LF4_A1	PDBID CHAIN SEQUENCE	IKLDITSHNEDYT-IVEQYER-----SEGRHSTGMDELYK-----	231
3LF3_A1	PDBID CHAIN SEQUENCE	IKLDITSHNEDYT-IVEQYER-----AEGRHSTGMDELYK-----	231
2P4M_A1	PDBID CHAIN SEQUENCE	RKLDVTHNKKDYT-SVEQCEI-----SIARKPVVA-----	221
2ARL_A1	PDBID CHAIN SEQUENCE	RKLDVTHNKKDYT-SVEQCEI-----SIARKPVVA-----	221
1MOV_A1	PDBID CHAIN SEQUENCE	RKLDVTHNKKDYT-SVEQCEI-----SIARKPVVA-----	221
1M0U_A1	PDBID CHAIN SEQUENCE	RKLDVTHNKKDYT-SVEQCEI-----SIARKPVVA-----	221
2WH5_A1	PDBID CHAIN SEQUENCE	RKLDVTHNKKDYT-SVEQCEI-----SIARKPVVA-----	221
2WHT_A1	PDBID CHAIN SEQUENCE	RKLDVTHNKKDYT-SVEQCEI-----SIARKPVVA-----	221
2WHU_A1	PDBID CHAIN SEQUENCE	RKLDVTHNKKDYT-SVEQCEI-----SIARKPVVA-----	221
31R8_A1	PDBID CHAIN SEQUENCE	RKLDVTHNKKDYT-SVEQCEI-----SIARKPVVA-----	221
3CGL_A1	PDBID CHAIN SEQUENCE	TKLVWVNNKDFM-KVEEHEI-----AVARHPFVPEPKDK-----	243
2262_A1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	257
210V_A1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	257
2P0X_A1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	257
21E2_A1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	224
2210_A1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	227
226Y_A1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	227
2GX2_A1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	243
2GX0_B1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	243
226X_A1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	257
31S3_A1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	237
31SA_A1	PDBID CHAIN SEQUENCE	HHTEIKSHDKDY-SVNLHEH-----AEAS-ELPRAK-----	237
2DDC_A1	PDBID CHAIN SEQUENCE	HLMETTSHDKDY-KVKLYEH-----AKAS-GLPRLAK-----	227
2DD0_A1	PDBID CHAIN SEQUENCE	HLMETTSHDKDY-KVKLYEH-----AKAS-GLPRLAK-----	227
1X5S_A1	PDBID CHAIN SEQUENCE	HR1ETTSHDKDY-KVKLYEH-----AKAS-GLPRLAK-----	227
2VVT_A1	PDBID CHAIN SEQUENCE	HCTEILSHDKDY-KVKLYEH-----AVAS-GLPDNARR-----	228
2VWH_A1	PDBID CHAIN SEQUENCE	HCTEILSHDKDY-KVKLYEH-----AVAS-GLPDNARR-----	228
2VJ3_A1	PDBID CHAIN SEQUENCE	HCTEILSHDKDY-KVKLYEH-----AVAS-GLPDNARR-----	228
1ZUX_A1	PDBID CHAIN SEQUENCE	HCTEILSHDKDY-KVKLYEH-----AVAS-GLPDNARR-----	226
2BT3_A1	PDBID CHAIN SEQUENCE	HCTEILSHDKDY-KVKLYEH-----AVAS-GLPD-----	222
2GW3_A1	PDBID CHAIN SEQUENCE	HCTEILSHDKDY-KVKLYEH-----AVAS-GLPDNARR-----	227
2G14_A1	PDBID CHAIN SEQUENCE	HCTEILSHDKDY-KVKLYEH-----AVAS-GLPDNARR-----	227
20TE_A1	PDBID CHAIN SEQUENCE	HR1EILNHDKDY-KVTVYES-----AVARY-----	216
20TB_A1	PDBID CHAIN SEQUENCE	HR1EILNHDKDY-KVTVYES-----AVARY-----	216
2HQK_A1	PDBID CHAIN SEQUENCE	HR1EILNHDKDY-KVTVYES-----AVARNSTDGM-----	221
2VZK_A1	PDBID CHAIN SEQUENCE	HR1EILNHDKDY-KVKLYEH-----AVARYSPLPSQVHHHHHH-----	231
3ADF_A1	PDBID CHAIN SEQUENCE	HR1EILNHDKDY-KVKLYEH-----AVARYSMLPSQAK-----	228
21CR_A1	PDBID CHAIN SEQUENCE	HKLNREDRSDAKNKKWQLTEH-----AIASRSALP-----	239
2FL1_A1	PDBID CHAIN SEQUENCE	HKLNREDRSDAKNKKWQLTEH-----AIASRSALP-----	228
20GR_A1	PDBID CHAIN SEQUENCE	HKLNREDRSDAKNKKWQLTEH-----AIAPPSALA-----	231
1XAE_A1	PDBID CHAIN SEQUENCE	HKLNREDRSDAKNKKWQLTEH-----AIAPPSALA-----	231
1XA9_A1	PDBID CHAIN SEQUENCE	HKLNREDRSDAKNKKWQLTEH-----AIAPPSALA-----	231
2PX5_A1	PDBID CHAIN SEQUENCE	HKLNREDRSDAKNKKWHLTEH-----AIASGSALP-----	228
2PXW_A1	PDBID CHAIN SEQUENCE	HKLNREDRSDAKNKKWHLTEH-----AIASGSALP-----	228
20JK_A1	PDBID CHAIN SEQUENCE	HKLNREDRSDAKNKKWHLTEH-----AIASGSALP-----	231
2RH7_A1	PDBID CHAIN SEQUENCE	HRLVKTNTVDSAG-YVQHE-----ATAAHTIKKIEGSLPDVHHHHHH-----	241
2C93_H1	PDBID CHAIN SEQUENCE	HRLVKTNTVDSAG-YVQHE-----ATAHVCPLPKPN-----	225
2G6X_A1	PDBID CHAIN SEQUENCE	RRVEEDHSNTELG-IVEYQH-----AFKTPD-----	219
2G6Y_A1	PDBID CHAIN SEQUENCE	RRVEEDHSNTELG-IVEYQH-----AFKTPD-----	219
2G30_A1	PDBID CHAIN SEQUENCE	RRVEELHSNTELG-IVEYQH-----AFKTPIAFA-----	222
2DD7_A1	PDBID CHAIN SEQUENCE	RRVEETHKENLA--MVEYQ-----VFNSAPRDM-----	218
2DD9_D1	PDBID CHAIN SEQUENCE	RRVEETHKENLA--MVEYQ-----VFNSAPRDM-----	218

3EKJ_A | PDBID | CHAIN | SEQUENCE EMIREAGIDGGQVNYEEFVQMTAK 451

3EVP_A | PDBID | CHAIN | SEQUENCE EMIREADIDGGQVNYEEFVQMTAK 451
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Supplementary Material (ESI) for Molecular BioSystems
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CLUSTAL 2.0.12 multiple sequence alignment

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Q7Z0W4/1-218      --MSVIKPDMKIKLRMEGAVNGHNFVIEGEGKPFEGTQT--INLTVKE--GGPLPFAFD 55
Q66ND3/1-218      --MSVIKPDMKIKLRMEGAVNGHNFVIEGEGKPFEGTQT--INLTVKE--GGPLPFAFD 55
Q2LI64/1-35       --MSVMKSEMKIKLRMEGAVNGHTFEIEGEGKPFEGTHT----- 35
Q60I25/1-218      --MSVIKPEMKIKLCMRGTVNGHNFVIEGEGKPNPYEGTQI--LDLNVTE--GAPLPFAFD 55
Q60I24/1-218      --MSVIKPEMKIKLCMRGTVNGHNFVIEGEGKPNPYEGTQI--LDLNVTE--GAPLPFAFD 55
A8CLT2/1-218      --MNVIKPDMKIKLCMRGTINGHNFVIEGEGKPNPYEGTQI--LDLNVTE--GAPLPFAFD 55
B5BR3/1-218      --MSVIKQEMKIKLHMDGAVNGHAFVIEGDKGKPYDGTQT--LNLVKE--GAPLPFSYD 55
B6CT26/1-219      --MSVIKQEMKIKLHMDGAVNGHAFVIEGDKGKPYDGTQT--LNLVKE--GAPLPFSYD 55
Q9U6Y3/43-260     --MGVIKPDMKIKLRMEGAVNGHAFVIEGEGKPYDGTHT--LNLVKE--GAPLPFSYD 55
Q8T6U0/1-218      --MNLIKEDMRVVKHMEGAVNGHAFVIEGEGKPYDGTQT--LNLVKE--GAPLPFSYD 55
Q8T5F0/7-229      --KNVVKDFMKITLRMDGAVNGKFAVNGTGDGNPYGGIQS--LKLTVDG--NKPLPFAFD 55
Q8T5F3/6-223      --MKVKEHMKIKLRMGVTVNGKFAVNGTGDYYPYQKQI--LKLIVEG--SEPLPFAFD 54
Q66PW0/1-221      --MNALQEMKIKLTMVGVVNGQSFKIDGKGGKPYEGSQE--LTLKVVE--GGPLFSYD 55
Q8MU46/1-221      --MNALQEMKIKLTMVGVVNGQSFKIDGKGGKPYEGSQE--LTLKVVE--GGPLFSYD 55
Q8T5E9/1-221      --MSALKEEMKIKLTMVGVVNGQSFQIDGEGKGGKPYEGSQE--LTLVVE--GGPLFSYD 55
Q8T5E8/1-221      --MSALKEEMKIXLTLVGVVNGHFPKIDGKGGKPYEGSQE--LTLVVE--GGPLFSYD 55
Q8T6T8/1-221      --MSALKEEMKINLTMVGVVNGLPFKIRGDKGGKPYEGSQE--LTLVVK--GGPLFSYD 55
Q66PU5/1-220      --MSVIVKEMTKLHMEGTVNGHAFVIEGEGKGGDPYNGVQS--MNLVKG--GAPLPFSYD 55
A8CL57/1-220      --MSVIVKEMTKLHMEGTVNGHAFVIEGEGKGGDPYNGVQS--MNLVKG--GAPLPFSYD 55
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Q8MMA2/34-254 --TNGIAEEMKTRVHLEGTVNGHSFTIKGEGRGPYKGEQF-MSLEVVN--GAPLPFSFD 55
Q8MMA1/12-234 --VNGIAEEMKTDLIMEGIVNGHSFTIEGKGTGYXKGDQF-MKLEVVK--GAPLPFSFD 55
Q66ND6/5-222 --KSVIKEEMLINLHLEGTFNHGYFEIKGKGGKPNNEGTNT-VTLEVTK--GGPLPFGWH 55
Q9U67/5-223 --KSVIKEEMLIDLHLEGTFNHGYFEIKGKGGKPNNEGTNT-VTLEVTK--GGPLPFGWH 55
Q55367/6-223 --EEVIKEFMRFKVMEGSVNGHEFEIEGEGEGRPYEGTQT-ARLKVTK--GGPLPFAWD 55
Q55368/6-223 --EEVIKEFMRFKVMEGSVNGHEFEIEGEGEGRPYEGTQT-AKLKVTK--GGPLPFAWD 55
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Q2WG74/7-224 --ENVITFMRFKVMEGTVNGHEFEIEGEGEGRPYEGHNT-VKLKVTK--GGPLPFAWD 55
Q9GTJ7/5-224 --KNVIKEFMRFKVMEGTVNGHEFEIKGEGEGRPYEGHCS-VKLMVTK--GGPLPFAFD 55
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Q69ZV6/5-228 --KHGLTKDMTMXYHMEGSDVGHKVFITGHGNGNPFTEGQT-INLCVAE--GGPLPFSED 55

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B2ZAG1/5-228 --KQGLTDNMTMXYQMEGCVGDGHQFVITGHGKGNPFGKQT-LNLCVDK--GGPLPFSED 55
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A8CLV1/5-230 --KNGVDRMKLKFHMEGCVNGHEFTIEGEGTGQPYEGTQS-IQLRVEK--GGPLPFSVD 55
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Q6R8F4/1-219 ---MVLKQNMNTYHMDGCVNGHNFVEGEGTGNPYEGHQ-LKLRTK---KGEPLPFAFD 54
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Q617B4/1-210 -----MKMYFMDGCVNGHEFTIEGEGTGKPKGKHT-MTLRVTMAKGGPMPFAFD 50
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A8CLQ6/5-221 --KQAIKQDMKINYFMDGCVNGHEFTVKEGEGTGKPKGKHT-MTLRVTMAKGGPMPFAFD 57
A8CLW9/4-223 --SKQVLNDVMTYFMDGCVNGHDFITIEGEGTGKPKGKHT-FNLRVT--KGAPLPFAVD 55

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A7RQ05/1-174 ---MKLHFLEGSVNGHCFEIQGEGEGKPFEGEQW-AKHCVVK--GKHLPFLD 48
A7S1H5/1-224 ---MSLSDAMKLLHILEGSVNGHCFEIHGEGKAFEGEQW-SKFTVVK--GGPLPFSFD 55
A7S1H3/1-82 -----
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B1PND6/5-189 -----KTHELHIFGKINGHEYDMRGKGTGNPNDGYED---LDLKS-KDDLQFSPW 46
B1PND8/4-184 -----PATHELHIFGKINGHEYDMRGKGTGNPNDGYED---LDLKSTKDDLQFSPW 48
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B1PNC8/4-69 -----PATHDLHISGSINGHEFDLEGSKGNAKEGYQE---LHLKSNRGLDSFSPW 48
C3YRA0/8-104 TSAVTEPLPTTHELHIFGSFNGVDFDLVGRGEGNPKDGSQK---LHLKSTKGALQFSPW 56
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C3YK7/5-217 -----ATHEIHLHGSVNGHEFDLVGGGKGNPAGSLV---TEVKSTMGPLKFSFY 47
C3YKQ2/53-191 -----
A8QZ9/4-215 -----PTTHDLHIFGSVNGAEFDLVGGGKGNPNDGTL---TSVKSTRGALPCSPL 48
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C3YKQ1/4-215 -----PTTHDLHIFGSVNGAEFDLVGGGKGNPNDGTL---TSVKSTRGALPCSPL 48
C3ZLQ0/369-585 ---TMSVPTNLDLHIYGSINGMEFDLVGGGSGNPNDSLS---VNVKSTKGALRVSP 52
C3YK10/4-218 -----KSVPTNLDLHIYGSINGMEFDLVGGGSGNPKDGSLSA---VNVKSTKGALRVSP 51
C3YKQ0/5-214 -----TAHCHMFGSINGHEFDLVGGGKGNPNDGTL---TKVRSTKGPLPFSV 47
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Q6W09/1-217 -----MPDMKLECHISGTMNGEEFELVAGDGNTEGRMT---NKMKSIGPLSFSFY 50
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P42212/5-229 TLVTTFSYGVQCFSRYPDHMKQHDFFKSAMPEG---YVQERTIFFK-DDGNYKTRAEV- 108
Q6YGZ0/5-229 TLVTTFSYGVQCFSRYPDHMKQHDFFKSAMPEG---YIQERTIFFK-DDGNYKTRAEV- 108
Q8WTC5/5-229 TLVTTLYGILCFARYPEHMKMNDFFKSAMPEG---YIQERTIFFQ-DDGKYKTRGEV- 108
Q8WTC4/5-229 TLVTTLYGILCFARYPEHMKMNDFFKSAMPEG---YIQERTIFFQ-DDGKYKTRGEV- 108
Q8WTC9/5-229 TLVTTLYGIQCFARYPEHMKMNDFFKSAMPEG---YIQERTIFFQ-DDGKYKTRGEV- 108
Q8WTD0/5-229 TLVTTLYGIQCFARYPEHMKMNDFFKSAMPEG---YIQERTIFFQ-DDGKYKTRGEV- 108
Q8WTC8/5-229 TLVTTLYGIQCFARYPEHMKMNDFFKSAMPEG---YIQERTIFFQ-DDGKYKTRGEV- 108

Q8WTC6/5-229 TLVTTLSYGIQCFARYPEHMKMNDFFKSAMPEG----YIQERTIFFQ--DDGKYKTRGEV- 108
Q8WP95/5-229 TLVTTFSYGIQCFARYPEHMKMNDFFKSAMPEG----YIQERTIFFQ--DDGKYKTRGEV- 108
Q8WTC7/5-229 TLVTTLSYGIQCFARYPEHMKMNDFFKSAMPEG----YIQERTIFFQ--DDGKYKTRGEV- 108
Q6RYS7/5-229 TLVTTLYTGAQCFARYPELK--DFYKSCMPEG----YVQERTITFE--GDGVFKTRAEV- 106
Q6RYS6/39-258 SLITLSYGAQCFARYPEIN--DFKSTFPGS----YHQERKITYE--NDGVLTAALKI- 106
Q6RYS5/2-222 SLITLSYGGKCFVRYPNVIK--DFKSTFPTG----YHQERKITYE--DDGVLTAALKV- 106
Q6RYS4/5-225 PICHLIQYGEPPFAKYPNGIS--HFAQCFPEG----LIDRTVRFE--NDGMTSHHTY- 106
Q2TCH5/5-225 PICHLIQYGEPPFAKYPDGIS--HFAQCFPEG----LIDRTVRFE--NDGMTSHHTY- 106
Q53UG7/1-221 ILTTVFYDGNRVFVKYPEEIV--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q53UG8/1-221 ILTTAFHYGNRVFVYEPEDIV--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q8MU48/1-218 ILTTAFYDGNRVFVKYPEDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
A8CLW1/1-218 ILTTIFNYGNRVFVKYPPDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
B6CTZ4/1-218 ILTTIFNYGNRVFVKYPPDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q5TLG6/1-218 ILTTVFYDGNRVFVKYPENIV--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
A8CLQ1/1-223 ILTTSFNYGNRVFVKYPTDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q2LI65/1-219 ILTTVFHYGNRVFVKYPGDIA--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
A8CLW4/1-222 ILTTVFYDGNRVFVKYPTDIA--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
B6CTZ5/4-224 ILTTVFYDGNRVFVKYPEIV--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
A3F207/1-221 ILTTVFHYGNRVFVKYPPDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q962P9/1-221 ILTTVFYDGNRVFVKYQDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q7Z0W8/1-221 ILTTVFYDGNRVFVKYQDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q66ND5/1-221 ILTTVFYDGNRVFVKYPKDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
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Q66ND2/1-221 ILTTVFYDGNRVFVKYPKDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
A7UAL7/1-221 ILTTVFYDGNRVFVKYPKDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q7Z0W6/1-221 ILTTVFYDGNRVFVKYPKDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
A7UAL9/1-221 ILTTVFYDGNRVFVKYPKDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q8T5F2/8-228 ILTTVFYDGNRVFVKYPEDIA--DYFKQSFP----EGYFWERSMSYE--DGGICLATNMI- 107
Q7Z0W7/8-228 ILTTVFYDGNRVFVKYPEDIA--DYFKQSFP----EGYFWERSMSYE--DGGICLATNMI- 107
Q8MU47/8-228 ILTTVFYDGNRVFVKYPEDIA--DYFKQSFP----EGYFWERSMSYE--DGGICLATNMI- 107
Q95V10/1-221 ILTTVFYDGNRVFVKYQDIP--DYFKQSFP----EGYFWERSMSYE--DGGICLATNMI- 107
A7UAL3/1-221 ILTTVFYDGNRVFVKYPKDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
A7UAL6/1-218 ILTTVFYDGNRVFVKYPKDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
A7UAL8/1-218 ILTTVFYDGNRVFVKYPKDIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
A8CL52/1-219 ILTTAFHYGNRVFVKYDPDIP--DYFKQSFP----NGFSWERSLMFE--DGGICLATNMI- 107
Q8I6J8/1-219 ILTTAFHYGNRVFVKYDPDIP--DYFKQSFP----KGSWERSLMFE--DGGICLATNMI- 107
A3F208/1-219 ILTTAFHYGNRVFVKYGNIP--DYFKQSFP----KGSWERSLMFE--DGGICLATNMI- 107
A8CLR7/1-219 ILTTAFHYGNRVFVKYDPDIP--DYFKQSFP----GGYSWERSLMFE--DGGICLATNMI- 107
Q55629/1-219 ILTTAFHYGNRVFVKYDPDIP--DYFKQSFP----KGSWERSLMFE--DGGICLATNMI- 107
Q66PW1/5-223 ILTTAFHYGNRVFVKYDPDIP--DYFKQSFP----KGSWERSLMFE--DGGICLATNMI- 107
Q8T5F1/1-219 IMTTVFHYGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
Q7Z0W9/1-219 IMTTVFHYGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
Q6UKS3/1-219 IMTTVFHYGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
A7UAL4/1-219 IMTTAFHYGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
A7UAM0/1-219 ILTTVFYDGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
Q7Z0W5/1-218 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
Q95UA7/1-218 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
A7UAL1/1-218 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
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Q963F5/1-218 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
Q7Z0W4/1-218 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
Q66ND3/1-218 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EYSWERSMSYE--DGGICLATNMI- 107
Q2LI64/1-35 -----
Q60I25/1-218 ILTTVFYDGNRVFVKYKHIP--DYFKQSFP----EGYHWSERSMSYE--DGGICLATNMI- 107
Q60I24/1-218 ILTTVFYDGNRVFVKYKHIP--DYFKQSFP----EGYHWSERSMSYE--DGGICLATNMI- 107
A8CLT2/1-218 ILTTVFYDGNRVFVKYKHIP--DYFKQSFP----EGYHWSERSMSYE--DGGICLATNMI- 107
B5BR3/1-218 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
B6CTZ6/1-219 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q9U6Y3/43-260 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q8T6U0/1-218 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 107
Q8T5F0/7-229 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 109
Q8T5F3/6-223 ILTTAFYDGNRVFVKYKHIP--DYFKQSFP----EGYSWERSMSYE--DGGICLATNMI- 108
Q66PW0/1-221 ILTTIFQYGNRAFNVPKHIP--DIFKQTCVSG--DGGYSWQRTMTYE--DGGVCTATSNV- 110
Q8MU46/1-221 ILTTIFQYGNRAFNVPKHIP--DIFKQTCVSG--DGGYSWQRTMTYE--DGGVCTATSNV- 110
Q8T5E9/1-221 ILTTIFQYGNRAFNVPKHIP--DIFKQTCVSG--DGGYSWQRTMTYE--DGGVCTATSNH- 110
Q8T5E8/1-221 ILTTIFVHYGNRAFNVPKHIP--DIFKQTCVSG--GAGYSWQRTMTYE--DGGVCTATSHI- 110
Q8T6T8/1-221 ILTTMFQYGNRAFNVPKHIP--DIFKQTCVSG--NGYSWQRTMTYE--DGGVCTATSHI- 110
Q66PUS/1-220 LLTPAFMYGNRVFVKYKHIP--DFKQVFP----EGYHWSERSMSYE--DQAVCTATSHI- 107
A8CL57/1-220 LLTPAFMYGNRVFVKYKHIP--DFKQVFP----EGYHWSERSMSYE--DQAVCTATSHI- 107
Q8MA2/34-254 LLTPAFMYGNRVFVKYKHIP--DFKQVFP----EGYHWSERSMSYE--DQAVCTATSHI- 107
Q8MA1/12-234 LLTPAFMYGNRVFVKYKHIP--DFKQVFP----EGYHWSERSMSYE--DQAVCTATSHI- 107
Q66ND6/5-222 ILCPQFYGNKAFVHPDIP--DYLKLSFP----EGYHWSERSMSYE--DGGICLATNMI- 107
Q9U6Y7/5-223 ILCPQFYGNKAFVHPDIP--DYLKLSFP----EGYHWSERSMSYE--DGGICLATNMI- 107
Q553G7/6-223 ILSPQFYGNKAFVHPDIP--DYLKLSFP----EGFKWERSMSYE--DGGVTVTQDS- 107
Q553G8/6-223 ILSPQFYGNKAFVHPDIP--DYLKLSFP----EGFKWERSMSYE--DGGVTVTQDS- 107
Q2LI66/5-222 ILSPQFYGNKAFVHPDIP--DYLKLSFP----EGFKWERSMSYE--DGGVTVTQDP- 107
Q66ND8/5-222 ILSPQFYGNKAFVHPDIP--DYLKLSFP----EGFKWERSMSYE--DGGVTVTQDP- 107
Q66ND7/5-222 ILSPQFYGNKAFVHPDIP--DYLKLSFP----EGFKWERSMSYE--DGGVTVTQDS- 107
Q9U6Y8/5-222 ILSPQFYGNKAFVHPDIP--DYLKLSFP----EGFKWERSMSYE--DGGVTVTQDS- 107
Q6K6F85/5-222 ILSPQFYGNKAFVHPDIP--DYLKLSFP----EGFKWERSMSYE--DGGVTVTQDS- 107
Q2WG74/7-224 ILSPQFYGNKAFVHPDIP--DYLKLSFP----EGFKWERSMSYE--DGGVTVTQDS- 107

Supplementary Material (ESI) for Molecular BioSystems
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Q9GTJ7/5-223 ILSPQFYQGSKYVVKHPADIP--DYKLSFP---EGFKWERVMNFE-DGGVVTVSQDS- 107
A8CLM7/1-218 ILSPLSQYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
A8CLM1/1-218 ILSPLSQYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
Q1JU63/2-219 ILSPLMICYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
Q1JV71/2-219 ILSPLFQYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
Q1JV72/2-219 ILSPLFQYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
Q1JV70/2-219 ILSPLQYGSIPFTKYPEDIP--DYFKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
B5T1L1/1-218 ILSPQCYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
A8CLV6/1-218 ILSPQCYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
Q66PV0/1-218 ILSPQCYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
Q66PU8/1-218 ILSPQCYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
Q9SP04/1-218 ILSPQCYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
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Q66PV1/1-218 ILSPQFYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DDAVCTVSND- 107
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P83690/1-218 ILSPQCYGSIPFTKYPEDIP--DYVKQSFPP---EGYTWERIMNFE-DGAVCTVSND- 107
A8CLN8/6-226 ILLPQHMYGSKPFKYPESIP--DYIKLSFP---EGITWERSMTFE-DGAVCTVSND- 107
B6CTZ7/1-220 ILTPSHMYGSKPFKYPADIP--DYHKQSFPP---EGMSWERSMIFE-DGGVCTASNHSS 108
Q9U6Y5/5-228 ILSAAFYGNRVFTEYPODIV--DYFKNSCPAG---YTWDRSFLFE-DGAVCICNADIT 108
Q9U6Y4/5-228 ILSAGFKYGRIFTEYPODIV--DYFKNSCPAG---YTWGRSFLFE-DGAVCICNVDIT 108
Q8T4U4/5-228 ILSAAFYGNRLFTEYPEGIV--DYFKNSCPAG---YTWHRSRFRFE-DGAVCICSADIT 108
B2ZAG2/5-226 ILSAAFYGNRLFTEYPOQIV--DYFKNSCPAG---YTWQRSFLFE-DGAVCIASADIS 108
Q692V6/5-228 ILSAAFYGNRVFTEYPOGMV--DFFKNSCPAG---YTWHRSLFFE-DGAVCTTSADIT 108
B5LIN1/1-161 -----GNRVFTEYPOGMV--DFFKNSCPAG---YTWHRSLFFE-DGAVCTTSADIT 45
B5T1L5/5-228 ILSAAFYGNRVFTEYPOGMV--DFFKNSCPAG---YTWHRSLFFE-DGAVCTTSADIT 108
Q66PV2/5-228 ILSAAFYGNRVFTEYPOGMV--DFFKNSCPAG---YTWHRSLFFE-DGAVCTTSADIT 108
Q86LC2/5-228 ILSTVFYGNRIFTEYPSIV--DYFKNSCPAG---HTWQRSLLFE-DGAVCIASADIS 108
B2ZAG1/5-228 ILSAVFTYGNRIFADYPOQID--DYFKNSCPAG---YTWRSFLFE-DGAVAIASADIR 108
A8CLN4/5-231 ILSAVFYGNRVFTKYPQDLV--DYFKNSCPAG---YTWQRSFLFE-DGAVCTASADIT 109
A8CLV1/5-230 ILSAVFLYGNRVFTKYPQDLV--DYFKNSCPAG---YTWQRSFLFE-DGAVCTASADIT 108
A8CLU7/1-223 ILSTVFYGNRCFTKYPNPVIV--DYFKNSCSGGG---YTFGRSFLYE-DGAVCTASGDI 108
A8CLP2/5-228 ILSTVFYGNRCFTKYPNPVIV--DYFKNSCSGGG---YKFGRSFLYE-DGAVCTASGDI 108
B6CTZ2/5-226 ILSTVFYGNRCFTKYPNPTV--DYFKNSCPPG---YTFERSFLYE-DGAVCTASGDI 109
Q2VTM9/5-219 ILSVFTYGNRCFCEYPEDMP--DYFKQSLPEG---HSWERTLMFE-DGGCGTASAHIS 108
Q1ALD3/5-219 ILSATFTYGNRCFCEYPEDMP--DYFKQSLPEG---YSWERTMME-DGACGTASAHIS 108
Q1ALD5/5-219 ILSATFTYGNRCFCEYPEDMP--DYFKQSLPEG---YSWERTMME-DGGCGTSAHIR 108
Q1ALD4/5-219 ILSATFTYGNRCFCEYPEDMP--DYFKQSLPEG---YSWERTMME-DGACGTASAHIS 108
Q09HR5/5-219 ILSATFTYGNRCFCEYPEDMP--DYFKQSLPEG---YSWERTMME-DGGCGTASAHIS 108
Q2VTM8/5-219 ILTATFYGNRCFCEYPEDMP--DYKQSFPEG---YSFERTMFE-DGACCTTSVHLS 108
A8CLU1/1-218 ILSAVFLYGNRAFTDYPKIV--DYFKQSFPEG---YSFERTLFE-DGGYCTASADIS 107
Q9U6Y6/5-224 ILSTVFYGNRCFTAYPTSM--DYFKQAFPDPG---MSYERTFTYE-DGGVATASWEIS 110
A8CLT7/5-222 ILSAFYGNRCFTAYPAGMH--DYFKQAFPDPG---MSYERTFTFE-DGGVATASGDIS 108
Q66ND1/5-220 ILSAFYGNRCFTKYPADMP--DYFKQAFPDPG---MSFERTTFE-DGGVATASGHIC 108
Q66PV5/5-226 ILSTVFYGNRCFTKYPEGMP--DYFKQAFPDPG---MSFERSFLYE-DGGVATASWNIR 110
B5T1L2/5-226 ILSTVFYGNRCFTKYPEGMP--DYFKQAFPDPG---MSYERSFLYE-DGGVATASWNIR 110
Q66PV3/5-226 ILSTVFYGNRCFTKYPEGMP--DYFKQAFPDPG---MSYERSFLYE-DGGVATASWNIR 110
B5T1L0/5-226 ILSTVFYGNRCFTKYPEGMP--DYFKQAFPDPG---MSYERSFLYE-DGGVATASWNIR 110
Q66PV4/5-226 ILSTVFYGNRCFTKYPEGMP--DYFKQAFPDPG---MSYERSFLYE-DGGVATAGWNIG 110
B5LIN0/5-226 ILSTVFYGNRCFTKYPEGMP--DYFKQAFPDPG---MSYERSFLYE-DGGVATASWNIR 110
B5T1L3/5-226 ILSTVFYGNRCFTKYPEGMP--DYFKQAFPDPG---MSYERSFLYE-DGGVATASWNIR 110
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Q66PV7/5-226 ILSVFTYGNRCFTKYPADMP--DYFKQAFPDPG---MSYERSFLYE-DGAVATASWKIR 110
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Q66PV8/5-226 ILSVFTYGNRCFTKYPADMP--DYFKQAFPDPG---MSYERSFLYE-DGAVATASWNIR 110
Q66PV9/5-226 ILSVFTYGNRCFTKYPADMP--DYFKQAFPDPG---MSYERSFLYE-DGAVATASWNIR 110
A8CLX9/5-226 ILSVFTYGNRCFTKYPADMP--DYFKQAFPDPG---MSYERSFLYE-DGAVATASWNIR 110
B6CTZ3/5-226 ILSVFTYGNRCFTKYPADIP--DYFKQAFPDPG---MSYERSFLYE-DGAVATASWNIR 110
Q6I7B1/6-227 ILSTAFYGNRCFTKYPADMP--DYFKQAFPDPG---MSYERSFLYE-DGGVATASWSIR 110
Q66PV6/5-226 ILSHTFYGNRCFTKYPADLP--DYFKQAYPGG---MSYERSFYQ-DGGIATASWNVG 110
Q86LV8/1-213 ILSATFTYGNRVFTKYPEGKT--DYFKQAFPDPG---LWERTMTFE-DGGICTVAEIS 106
Q86LV7/1-213 ILSATFTYGNRVFTKYPEGKT--DYFKQAFPDPG---LWERTMTFE-DGGICTVAEIS 106
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Q6R8F5/5-223 ILTAAFCYGNRCFVNYPAEIA--DYFKQAFPDPG---LWERSMTFE-DGGFAAVSADIS 108
Q6R8F4/1-219 ILTAAFCYGNRCFVNYPAEIA--DYFKQAFPDPG---LWERSMTFE-DGGFAAVSADIS 107
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Q6I7B2/2-218 LVSHVFCYGNRPFTKYPEEIP--DYFKQAFPDPG---LWERSLQFE-DGGSASVSADIS 110
A7VMR3/2-218 LVSHVFCYGNRPFTKYPEEIP--DYFKQAFPDPG---LWERSLQFE-DGGSASVSADIS 110
Q6I7B4/1-210 LVSHVFCYGNRPFTKYPEEIP--DYFKQAFPDPG---LWERSLQFE-DGGFAAVSADIS 103
Q6I7B3/1-217 LVSHVFCYGNRPFTKYPEEIP--DYFKQAFPDPG---LWERSLQFE-DGGFAAVSADIS 110
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A8CLW9/4-223 ILSAAFYGNRCFTKYPKEIP--DFFKQSLPEG---MSWERTMTFE-DGGIVIASAHIR 108
Q9SW86/2-220 ILSPCCAYGSKTFIKHTSGIP--DYFKQSFPEG---FTWERTTIE-DGGVLT AHQDT- 107
Q9SW11/2-220 ILSPCCAYGSKTFIKHTSGIP--DYFKQSFPEG---FTWERTTIE-DGGVLT AHQDT- 107
Q8MU45/2-220 ILSPCCAYGSKTFIKHTSGIP--DYFKQSFPEG---FTWERTTIE-DGGRVLT AHQDT- 107
Q9SW85/2-222 ILAPCCYGRSFTVHHTAEIP--DFFKQSFPEG---FTWERTTIE-DGGILT AHQDT- 107
ASYTR7/2-222 ILSTSCMYGSKTFIKYVSGIP--DYFKQSFPEG---FTWERTTIE-DGGFLT AHQDT- 107
Q9GZ28/2-222 ILSTSCMYGSKTFIKYVSGIP--DYFKQSFPEG---FTWERTTIE-DGGFLT AHQDT- 107
ASYTR8/2-222 ILSTSCMYGSKTFIKYVSGIP--DYFKQSFPEG---FTWERTTIE-DGGFLT AHQDT- 107
Q9GP15/2-222 ILSTSCMYGSKTFIKYVSGIP--DYFKQSFPEG---FTWERTTIE-DGGFLT AHQDT- 107
Q2VFP3/2-221 ILAPCCMYGSKTFIKHVSIGIP--DYFKQSFPEG---FTWERTQIFE-DGGVLT AHQDT- 107
A0AQQ7/2-222 ILTPNCYGSVAITKYTSIGIP--DYFKQSFPEG---FTWERTTIE-DGAYLTQQET- 107
A0AQQ8/2-222 ILTPNCYGSVAITKYTSIGIP--DYFKQSFPEG---FTWERTTIE-DGAYLTQQET- 107
Q81SF8/2-222 ILATSFMYGSKTFIKHTKGIP--DFFKQSFPEG---FTWERTVRYE-DGGVFTVMQDT- 107

Q86LV4/2-220 ILSHAFQYGNKVFTKYPDDIP--DFFKQSLSGG----FTWKRVSNYE-DGGVLTVDQKT- 107
Q5QIU5/2-220 ILSHAFRYGNKVFTKYPDDIP--DFFKQSLSGG----FTWKRVSNYE-DGGVLTVDQKT- 107
Q8T6T9/2-220 ILSHAFRYGNKVFAKYPKDPH--DFFKQSLPEG----FTWKRVSNYE-DGGVLTVDQKT- 107
Q8T5E7/2-220 ILSHAFQYGNKVFTDYPDDIP--DFFKQSLSDG----FTWKRVSXYX-XGGVLTVDQKT- 107
ASYTR6/2-219 ILSHAFQYGNKVFAKYPKEIP--DFFKQSLPGG----FSWKRVSSTYE-DGGVLTVDQKT- 107
Q9GPI6/2-219 ILSHAFQYGNKVFAKYPKEIP--DFFKQSLPGG----FSWKRVSSTYE-DGGVLTVDQKT- 107
Q5ZQ06/2-221 ILSRFTCYGKMLDNSNGNIP--DFFKQSLKDG----YSWERETTYE-DGGVLTVDQKT- 107
B9UPG6/1-219 IITTFGQYVRAFTKYPDSIA--DYFKGSFPEA----FQWNRRIEFE-DGGVLTVDQKT- 107
Q5ZQ05/1-219 IITTFGQYVRAFTKYPDSIA--DYFKGSFPEA----FQWNRRIEFE-DGGVLTVDQKT- 107
Q7Z168/1-218 IITTFGQYVRAFTKYPDSIA--DYFKGSFPEA----FQWNRRIEFE-DGGVLTVDQKT- 106
Q9BLZ0/8-225 IVSIAFYGNRTFTKYPDDIA--DYFVQSFPAQ----FFYERNLRFE-DGAVLTVQDET- 107
Q9BL9/8-225 IVSFAFYGNRTFTKYPDDIS--DYFVQSFPAQ----FMYERTLRYE-DGAVLTVQDET- 107
Q96319/5-223 IVSVAFSYGNRAYTGYPEEIS--DYFLQSFPEG----FTYERNIRYQ-DGAVLTVQDET- 107
A8CLX6/5-222 IVAPTLKYGKCFMKYPADIP--DYFLQSFPEG----FTYERNIRYQ-DGAVLTVQDET- 107
A7S3R2/57-279 ILMPSMSYGTQKFAKYPAGMT--DFFKAQAVENG--GLSWERTMTFE-DGGYCTAVNTSE 109
A7RGQ5/1-174 IIMPNI7-----FAKYPDGMT--GFFKAQAVENG--GLSWERTMAFE-DRGYCTAVNTSE 97
A7S1H5/1-224 LIAPCLKYKSGKPFVKYPDDMT--DFFKAQAVENG--GLSWERTMSLEQDGGFCSVVNTSK 110
A7S1H3/1-82 -----MFYGSKAFKYPDGMT--DFFKAQAVENG--GLSWERTKTFE-DGGYCT--HST 46
B1PNC2/5-218 ILVPIQIGYGFHQYLPFPDG-M--SPFQAAMKDG--GYQVHRTMQFE-DGASLTSNYRYT 101
B1PNC0/4-217 ILVPIQIGYGFHQYLPFPDG-M--SPFQAAMKDG--GYQVHRTMQFE-DGASLTSNYRYT 102
B1PNC1/5-218 ILVPIQIGYGFHQYLPFPDG-M--SPFQAAMKDG--GYQVHRTMQFE-DGASLTSNYRYT 101
B1PNC4/5-218 ILVPIQIGYGFHQYLPFPDG-M--SPFQAAMKDG--GYQVHRTMQFE-DGASLTSNYRYT 101
C3YR99/48-261 ILVPIQIGYGFHQYLPFPDG-M--SPFQAAMKDG--GYQVHRTMQFE-DGASLTAHFRTY 103
B1PNC3/4-217 ILVPIQIGYGFHQYLPFPDG-M--SPFQAAMKDG--GYQVHRTMQFE-DGATLTGIYRYT 103
B1PNC8/5-217 ILVPIQIGYGFHQYLPFPDG-M--SPFQAAMKDG--GYQVHRTMQFE-DGATLTGIYRYT 102
B1PNC9/4-216 ILVPIQIGYGFHQYLPFPDG-M--SPFQAAMKDG--GYQVHRTMQFE-DGATLTGIYRYT 103
C3YRA1/51-267 ILVPHLGYAFNQYLPFPDG-M--SPFQAAMKDG--GYQVHRTMQFE-DGAFVTAHLRYT 103
C3YRA2/11-223 ILVPHLGYAFNQYLPFPDG-M--SPFQAAMKDG--GYQVHRTMQFE-DGASVTAHLRYT 102
B1PND7/4-187 ILVQNIQYGFNQYLPFPDG-M--SPFQAAMKDG--GYEVRHREMEFE-DGATLTGIYRYT 103
B1PND6/5-189 ILVQNIQYGFNQYLPFPDG-M--SPFQAAMKDG--GYEVRHREMEFE-DGATLTGIYRYT 101
B1PND8/4-184 ILVQNIQYGFNQYLPFPDG-M--SPFQAAMKDG--GYEVRHREMEFE-DGATLTGIYRYT 103
B1PND5/5-186 ILVQNIQYGFNQYLPFPDG-M--SPFQAAMKDG--GYEVRHREMEFE-DGATLTGIYRYT 102
C3YRA3/4-216 IVPVNIQYGFHQYLPFPDG-M--SPFQAAMKDG--GYVHRTMQFE-DGASLTSNYRYT 102
B1PND3/4-217 IVPVNIQYGFHQYLPFPDG-M--SPYQAAMKDG--GYVHRTMQFE-DGASLTSNYRYT 103
B1PND2/5-217 IVPVNIQYGFHQYLPFPDG-M--SPYQAAMKDG--GYVHRTMQFE-DGASLTSNYRYT 102
B1PNC9/4-217 IVPVNIQYGFHQYLPFPDG-M--SPYQAAMKDG--GYVHRTMQFE-DGASLTSNYRYT 103
B1PNC6/5-217 IVPVNIQYGFHQYLPFPDG-M--SPYQAAMKDG--GYVHRTMQFE-DGASLTSNYRYT 102
B1PNC7/4-220 IVPVNIQYGFHQYLPFPDG-M--SPYQAAMKDG--GYVHRTMQFE-DGASLTSNYRYT 103
B1PND0/5-220 IVPVNIQYGFHQYLPFPDG-M--SPYQAAMKDG--GYVHRTMQFE-DGASLTSNYRYT 102
B1PNC5/5-220 IVPVNIQYGFHQYLPFPDG-M--SPYQAAMKDG--GYVHRTMQFE-DGASLTSNYRYT 102
B1PND1/5-217 IVPVNIQYGFHQYLPFPDG-M--SPYQAAMKDG--GYVHRTMQFE-DGASLTSNYRYT 102
B1PND4/5-217 IVPVNIQYGFHQYLPFPDG-M--SPYQAAMKDG--GYVHRTMQFE-DGASLTSNYRYT 102
B1PNC8/4-69 ILVPIQIGYGFHQYLPFPDG----- 66
C3YRA0/8-104 MLVPHIGYGFHQYLPFPDGEM--SPYQAAMKDG--G-----AQ 91
C3YKQ3/5-218 LMIPLHLYGYYQYLPFPDG-P--SPFQTSMLG--GYAVYRVDFE-DGGKLTTEFKYS 101
C3YKQ7/5-217 LMIPLHLYGYYQYLPFPDG-P--SPFQTSMLG--GYAVYRVDFE-DGGKLTTEFKYS 101
C3YKQ2/53-191 IGPNLGY-----QVHRVFKFE-DGGVLTVDQKT- 28
A8QZ9/4-215 LIGPNLYGYYQYLPFPDG-A--SPFQTAITDG--GYQVHRVFKFE-DGGVLTVDQKT- 101
C3YKQ9/5-215 LIGPNLYGYYQYLPFPDG-A--SPFQTAITDG--GYQVHRVFKFE-DGGVLTVDQKT- 100
C3YKQ1/4-215 LIGPNLYGYYQYLPFPDG-A--SPFQTAITDG--GYQVHRVFKFE-DGGVLTVDQKT- 101
C3ZLQ0/369-585 LVGPHLYGYYQYLPFPDG-P--SPFQAAMKDG--GYQVHRVFKFE-DGAVLTVQDET- 105
C3YK10/4-218 LVGPHLYGYYQYLPFPDG-A--SPFQAAMKDG--GYQVHRVFKFE-DGAVLTVQDET- 104
C3YKQ0/5-214 ILAPNLGYGYYQYLPFPDG-T--SPYQAAMKDG--VYQKHTFKFE-DGGVLTVDQKT- 100
Q6WV10/1-215 LLSHILGYGYYHFATFPAGYE--NIYLHAMKNG--GYSNVRTERYE-DGGIISITFNRY 104
Q6WV09/1-217 LLSHILGYGYYHFATFPAGYE--NIYLHAMKNG--GYSNVRTERYE-DGGIISITFNRY 104
Q6WV11/1-215 LLSHIMZYGYYHFATFPAGYE--NVYLHAAKNG--GYTNTRTERYE-DGGIISITFNRY 104
Q6WV12/1-213 LLSHVMGYGYYHFATFPAGYE--NPLHAAKNG--GYTNTRTERYE-DGGVLTVDQKT- 104
Q6WV13/1-214 LLSHVMGYGYYHFATFPAGYE--NPLHAAKNG--GYTNTRTERYE-DGGVLTVDQKT- 104
Q6WV08/1-214 LLSHVMGYGYYHFATFPAGYE--NPLHAAKNG--GYTNTRTERYE-DGGVLTVDQKT- 104
Q2MHN7/1-215 LLSHVMGYGYYHFATFPAGYE--NPLHAAKNG--GYTNTRTERYE-DGGVLTVDQKT- 102

Q17106/5-229 -KFEGDT-----LVNRIELKIDFKEDGNILGHKMEYNSHNVYIMGDKPKNGIKVNFK 162
Q17105/5-229 -KFEGDT-----LVNRIELKIDFKEDGNILGHKMEYNSHNVYIMGDKPKNGIKVNFK 162
P42212/5-229 -KFEGDT-----LVNRIELKIDFKEDGNILGHKLEYNFNSHNVYIMADKQKNGIKVNFK 162
Q6YQZ0/5-229 -KFEGDT-----LVNRIELTGTDFKEDGNILGNKMEYNSHNVYIMTDKAKNGIKVNFK 162
Q8WTC5/5-229 -KFEGDT-----LVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANGLKVNFK 162
Q8WTC4/5-229 -KFEGDT-----LVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANGLKVNFK 162
Q8WTC9/5-229 -KFEGDT-----LVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANGLKVNFK 162
Q8WTD0/5-229 -KFEGDT-----LVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANGLKVNFK 162
Q8WTC8/5-229 -KFEGDT-----LVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANGLKVNFK 162
Q8WTC6/5-229 -KFEGDT-----LVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANGLKVNFK 162
Q8WP95/5-229 -KFEGDT-----LVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANGLKVNFK 162
Q8WTC7/5-229 -KFEGDT-----LVNRIELKGMDFKEDGNILGHKLEYNFNSHNVYIMPDKANGLKVNFK 162
Q6RYS7/5-229 -TFENG-----VYNRVKNLQKQKDGKHLGKLEFNFTPHCLYIWDQANHLKSAFK 160
Q6RYS6/39-258 -TMESGA-----IVNRINVKGTGFDKDGHCQKNESSP-PSYTYVYVPE--GEGIRIYR 157
Q6RYS5/2-222 -TLESQA-----IYNRISVKGVGKDKGNVCKKRLHSSP-PQVSYVYVPE--GEGIRIYR 157
Q6RYS4/5-225 -ELDGT-----VISRITVNCDFGQDPGPIKMDQL--VDILPTETHMFPHGSAVRQLCYI 159
Q2TCH5/5-225 -ELDGT-----VVSRTVNCDFGQDPGPIKMDQL--VDILPTETHMFPHGSAVRQLCYI 159
Q53UG7/1-221 -TMKKDG--SNCFVYEIFRFDGVNFPANGPVMQRKTKVKEP--STEKMY--VRDGLKGDVN 161
Q53UG8/1-221 -TMKKDG--SNCFVYEIFRFDGVNFPANGPVMQRKTKVKEP--STEKMY--VRDGLKGDVN 161
Q8MU48/1-218 -KMGD-----CFSYEIFRFDGVNFPANGPVMQRKTKVKEP--CTXEMY--VRDGLKGDVN 158
A8CLW1/1-218 -TLEGD-----FVYKIRFDGVNFPANGPVMQRKTKVKEP--STEKLY--VRDGLKGDVN 158

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B6CT24/1-218 -TLDGDC----FVYKIRFDGVNFPKSPVLQKKTQKWE-STEKLY--VRDGLLKGVDN 158
Q5TL66/1-218 -TLDGDC----YIYEIRFDGVNFPANGPVMQKRTVKWE-STEKLY--VRDGLVKGVDN 158
A8CLQ1/1-223 -TLLKDTDDSNFYFYKIRFDGVNFAANGPVMQKKTAKWE-STEKMY--VRDGLVKGVEV 163
Q2LI65/1-219 -TLVGDVFSRS----EIRFEGVNFANGPVMQKKTQKWE-STEKMY--VRDGLVKGVDN 159
A8CLW4/1-222 -TLSKDI--ANCFDYNIRFDGVNFPKSPVLQKKTQKWE-STEMMY--VRDGLVKGVDN 161
B6CT25/4-224 -TLSKVI--DNCFHYNIRFDGVNFPKSPVLQKKTQKWE-STEIMY--VRDGLVKGVDN 161
A3F207/1-221 -KLLKDE--ENCFHKNIRFDGVNFPANSPVMLKTTQKWE-STEKMY--ARDGVVKGVDN 161
Q962P9/1-221 -TLMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGVDN 161
Q7Z0W8/1-221 -TLMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGVDN 161
Q66ND5/1-221 -TMMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGVDN 161
Q66ND4/1-221 -TMMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGVDN 161
Q66ND2/1-221 -TMMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGVDN 161
A7UAL7/1-221 -TMMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGVDN 161
Q7Z0W6/1-221 -TMMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGVDN 161
A7UAL9/1-221 -TMMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEMMY--VRDGLVKGVDN 161
Q875F2/8-228 -TMEGV--DDCFAYKIRFDGVNFPANGPVMQKKTQKWE-STEIMY--ARDGLVKGVDN 161
Q7Z0W7/8-228 -TMMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGVDN 161
Q8MU47/8-228 -TMMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--XRDGLVKGVDN 161
Q95VT0/1-221 -TMMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEIMY--ARDGLVKGVDN 161
A7UAL3/1-221 -TMMKGV--DDCFVYKIRFDGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGVDN 161
A7UAL6/1-218 -KLEG--DDCFYKIRFDGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGVDN 158
A7UAL8/1-218 -KLEG--DDCFYKIRFDGVNFPANGPVMQKKTQKWE-STEMMY--VRDGLVKGVDN 158
A8CL52/1-219 -TLEGDT----FFNKVRFYGVNFPANGPVMQKKTQKWE-STEKMY--LRDGLVTDGIT 158
Q816J8/1-219 -TLEGDT----FFNKVRFYGVNFPANGPVMQKKTQKWE-STEKMY--LRDGLVTDGIT 158
A3F208/1-219 -TMEGDT----FVNKVRFYGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVTDGIT 158
A8CLR7/1-219 -KMGVDT----FYNTVRFYGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVTDGIT 158
Q556Z9/1-219 -TMEGDT----FVNKVRFHGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVTDGIT 158
Q66PW1/5-223 -KMGVDT----FHNEVQFYGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVTDGIT 158
Q875F1/1-219 -TMEGDC----FFNKVRFYGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVTDGIT 158
Q7Z0W9/1-219 -TMEGDC----FFNKVRFYGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVTDGIT 158
Q6USK3/1-219 -TMEGDC----FFNKVRFYGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVTDGIT 158
A7UAL4/1-219 -TMEGDC----FFNKVRFYGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVTDGIT 158
A7UAM0/1-219 -KMEGDC----FYKIRFDGVNFPKSPVMQKKTQKWE-STEKMY--VRDGLVKGDIS 158
Q7Z0W5/1-218 -KLEGDC----FFYKIRFDGVNFPANGPVMQKKTQKWE-STEMMY--VRDGLVKGDIS 158
Q95UA7/1-218 -KLEGDC----FFYKIRFDGVNFPANGPVMQKKTQKWE-STEMMY--VRDGLVKGDIS 158
A7UAL1/1-218 -KLEGDC----FFYKIRFDGVNFPANGPVMQKKTQKWE-STEMMY--VRDGLVKGDIS 158
A8CLP7/1-218 -KIEGDC----FTYDIFRHGVNFPANGPVMQKKTQKWE-STEMMY--VRDGLVGEVE 158
A7UAL2/1-218 -KLEGDC----FFYKIRFDGVNFPANGPVMQKKTQKWE-STEMMY--VRDGLVKGDIS 158
A7UAL5/1-218 -KMEGDC----FYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGDIS 158
Q963F5/1-218 -KMEGDC----FYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGDIS 158
Q7Z0W4/1-218 -RMEGDC----FYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGDIS 158
Q66ND3/1-218 -RMEGDC----FYKIRFDGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGDIS 158
Q2LI64/1-35 -----
Q60I25/1-218 -SMRGDC----FFYDIFRHGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGDIS 158
Q60I24/1-218 -SMRGDC----FFYDIFRHGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGDIS 158
A8CLT2/1-218 -SMRGDC----FFYDIFRHGVNFPANGPVMQKKTQKWE-STEKMY--VRDGLVKGDIS 158
B5BR3/1-218 -SMEGDC----FYKIRFDGVNFPANGPVMQKKTQKWE-STEMMY--VRDGLVKGDIS 158
B6CT26/1-219 -SMEGDC----FYKIRFDGVNFPANGPVMQKKTQKWE-STEMMY--ARDGLVKGDIS 158
Q9U6Y3/43-260 -SMEGDC----FYKIRFDGVNFPANGPVMQKKTQKWE-STEMMY--VRDGLVKGDIS 158
Q876U0/1-218 -SLEGDC----FFQNVRFYGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGDIS 158
Q875F0/7-229 -KMGVDE----FQYDIFRHGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGDIS 158
Q875F3/6-223 -TMVGGC----FQYDIFRHGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGDIS 158
Q66PW0/1-221 -SVVGDG----FNYEIHFMGANFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGDIS 161
Q8MU46/1-221 -SVVGDG----FNYEIHFMGANFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGDIS 161
Q875E9/1-221 -SVVGDG----FNYEIHFMGANFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGDIS 161
Q875E8/1-221 -RVVDGT----FNYDIFRHGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGDIS 161
Q876T8/1-221 -SVVGDG----FNYDIFRHGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGDIS 161
Q66PU5/1-220 -RLDQKEM---CFYDIFRHGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGDIS 160
A8CL57/1-220 -RLDQKEM---CFYDIFRHGVNFPANGPVMQKKTQKWE-STEIMY--VRDGLVKGDIS 160
Q8MAA2/34-254 -RLEEEER---RFVNVRFYGVNFPANGPVMQKKTQKWE-STEMMY--PRDGLVKGDIS 160
Q8MAA1/12-234 -RLEEEER---RFVNVRFYGVNFPANGPVMQKKTQKWE-STEMMY--PRNGLLEGYDE 163
Q66ND6/5-222 -SLTGNC----FNYDIKFTGLNFPANGPVMQKKTQKWE-STERLY--PRDGLVKGDIS 158
Q9U6Y7/5-223 -SLTGNC----FNYDIKFTGLNFPANGPVMQKKTQKWE-STERLY--PRDGLVKGDIS 158
Q553G7/6-223 -SLQDGC----FNYKVKRGTNFPANGPVMQKKTQKWE-SSERMY--PEDGALVKGDIS 158
Q553G8/6-223 -SLQDGC----FNYKVKRGTNFPANGPVMQKKTQKWE-SSERMY--PEDGALVKGDIS 158
Q2LI66/5-222 -SLQDGC----FNYKVKRGTNFPANGPVMQKKTQKWE-STERLY--PRDGLVKGDIS 158
Q66ND8/5-222 -SLQDGC----FNYKVKRGTNFPANGPVMQKKTQKWE-STERLY--PRDGLVKGDIS 158
Q66ND7/5-222 -SLQDGC----FNYKVKRGTNFPANGPVMQKKTQKWE-STERLY--PRDGLVKGDIS 158
Q9U6Y8/5-222 -SLQDGC----FNYKVKRGTNFPANGPVMQKKTQKWE-STERLY--PRDGLVKGDIS 158
Q6K6F85/5-222 -SLQDGC----FNYKVKRGTNFPANGPVMQKKTQKWE-STERLY--PRDGLVKGDIS 158
Q2W674/7-224 -SLQDGC----FNYKVKRGTNFPANGPVMQKKTQKWE-STERLY--PRDGLVKGDIS 158
Q9GT37/5-223 -SLQDGC----FNYKVKRGTNFPANGPVMQKKTQKWE-STERLY--PRDGLVKGDIS 158
A8CLM7/1-218 -SIQGNC----FYNVVKISGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158
A8CLM1/1-218 -SIQGNC----FYNVVKISGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158
Q1JU63/2-219 -SIQGNC----FYNVVKISGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158
Q1JV71/2-219 -SIQGNC----FYNVVKISGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158
Q1JV72/2-219 -SIQGNC----FYNVVKISGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158
Q1JV70/2-219 -SIQGNC----FYNVVKISGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158
B5T1L1/1-218 -SIQGNC----FNYHVKFSGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158
A8CLV6/1-218 -SIQGNC----FNYHVKFSGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158
Q66PW0/1-218 -SIQGNC----FNYHVKFSGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158
Q66PU8/1-218 -SIQGNC----FNYHVKFSGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158
Q95P04/1-218 -SIQGNC----FNYHVKFSGLNFPANGPVMQKKTQKWE-STERLY--ARDGMLVKGDIS 158

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A8CLL3/1-218 -SIQGN-----FIYNVKSGLNFPSPGVMQKKTQGWE-NTERLL--ARDGMLIGNNF 158
Q66P1/1-218 -SIQGN-----FIYHVKFSGVNFPNPGVMQKKTQGWE-NTERLF--ARDGMLIGNNF 158
Q66P9/1-218 -SIQGN-----FIYHVKFSGLNFPNPGVMQKKTQGWE-NTERLF--ARDGVLIGNNF 158
P83690/1-218 -SIQGN-----FTYHVKFSGLNFPNPGVMQKKTQGWE-HSERLF--ARGGMLIGNNF 158
A8CLN8/6-226 -RLDGD5-----FIYEVRFLGVNFPDRGPMQKKTTRGDW-STERLY--ECGGWRQGDVH 158
B6CTZ7/1-220 INLQENC-----FIYDVKFHGVNLPDGPVMQKTIAGWE-SVETLY--VRDGLMKSDTA 160
Q9U6Y5/5-228 VSVEENC-----MYHESKFGVGNFPADGPVMKKMTDNWE-SCEKIIPVQKQILKGDVS 162
Q9U6Y4/5-228 VSVKENC-----IYHKSIFNGMNFADGPVMKKMTTWEA-SCEKIMPVQKQILKGDVS 162
Q8T4U4/5-228 VNVRENC-----IYHSTFYGVNFPADGPVMKKMTTWE-SCEKIIPINSQILKGDVS 162
B2ZAG2/5-226 V--KENC-----IHHSTFYGVNFPDGPVMKKVTYVWE-SCEKIIPSPQKQILKGDVS 160
Q69ZV6/5-228 VSVEENC-----FYHNSKFHGVNFPADGPVMKKMTTWE-SCEKIIPVPRQKQILKGDIA 162
B5LIN1/1-161 VSVEENY-----FYHNSKFHGVNFPADGPVMKKMTTWE-SCEKIIPVPRQKQILKGDIA 99
B5TL1L5/5-228 VSVEENC-----FYHNSKFHGVNFPADGPVMKKMTTWE-SCEKIIPVPRQKQILKGDIA 162
Q66PV2/5-228 VSVEENC-----FYHNSKFHGVNFPADGPVMKKMTTWE-SCEKIIPVPRQKQILKGDIA 162
Q86LC2/5-228 LSVEERC-----FYHESKFGVGNFPADGPVMKKMTTWE-SCEKIIPVPRQKQILKGDVS 162
B2ZAG1/5-228 LSQKEC-----FHHVSRFYGVNFPADGPVMKKMTDWE-STEKIIPVPSQKQILKGDAS 162
A8CLN4/5-231 VSVEENC-----FYHESKFGVGNFPADGPVMKKMTTWE-SCEKIIPVPRQKQILKGDVT 163
A8CLV1/5-230 VSVEENC-----FYHESKFGVGNFPADGPVMKKMTTWE-SCEKIIPVPRQKQILKGDVT 162
A8CLU7/1-223 LSSDKS-----FEHKSFLGVNFPADGPVMKKTETTWE-SCEKMT--PNGMTLIGDVT 160
A8CLP2/5-228 LSADKKS-----FEHKSFLGVNFPADGPVMKKTETTWE-SCEKMT--PNGMTLIGDVT 161
B6CTZ2/5-226 LSDDKAS-----FHHKSKFGVGNFPDGPVMKKTETDWE-SCEKMT--PSGKTLKGDVI 160
Q2VTM9/5-219 LD--KNC-----FVHKSIFHGVNFPANGPMQKKTILNWE-SSELIT--AGDGILKGDVT 158
Q1ALD3/5-219 LD--KDC-----FHHSTFHVGNFPANGPMQKKTILNWE-SSELIT--PCDGILKGDVT 158
Q1ALD5/5-219 LE--KNC-----FVHQSFLGVNFPANGPMQKKTILNWE-SSELIT--PCDGILKGDVT 158
Q1ALD4/5-219 LD--KNG-----FVHNSIFHGVNFPANGPMKKTGGVNE-SSEKIT--ACDGILKGDVT 158
Q09HR5/5-219 LN--KTG-----FVHKSIFHGVNFPANGPMQKKTIVNWE-STEKIT--ACDGLTKGDVT 158
Q2VTM8/5-219 LT--KNC-----FVHNSIFHGVNFPANGPMQKKTILNWE-SSEKIT--PFEGNLKGDVT 158
A8CLU1/1-218 LDSASNC-----FHHKSKFGVGNFPDGPVMKKTETTWE-SSEKIT--VRDGLKGDVT 159
Q9U6Y6/5-224 LKG--NC-----FEHKSIFHGVNFPADGPVMAKKTGWDP-SFEKMT--VCDGILKGDVT 160
A8CLT7/5-224 LKG--NC-----FVHKSIFHGVNFPADGPVMKKTGWDP-SFEKMT--VCDGILKGDVT 158
Q66N1/5-220 LEG--NW-----FKHSMFHGVNFPANGPMQKRTIGWD-SFEKMT--VSNILKRGDVT 158
Q66PV5/5-226 LER--DC-----FHHKSIYHGVNFPADGPVMKKTIGWD-AFEKMT--VSKDVLKGDVT 160
B5TL1L2/5-226 LER--DC-----FHHKSIYHGVNFPADGPVMKKTIGWD-AFEKMT--VSKDVLKGDVT 160
Q66PV3/5-226 LER--DC-----FHHKSIYHGVNFPADGPVMKKTIGWD-AFEKMT--VSKDVLKGDVT 160
B5TL1L0/5-226 LER--DC-----FHHKSIYHGVNFPADGPVMKKTIGWD-AFEKMT--VSKDVLKGDVT 160
Q66PV4/5-226 LER--DC-----FHHKSIYHGVNFPADGPVMKKTIGWD-AFEKMT--VSKDVLKGDVT 160
B5LIN0/5-226 LER--DC-----FHHKSIYHGVNFPADGPVMKKTIGWD-AFEKMT--VSKDVLKGDVT 160
B5TL1L3/5-226 LEG--DC-----FHHKSIYHGVNFPADGPVMKKTIGWD-SFEKMT--VSKDVLKGDVT 160
B5TL1L4/5-226 LEG--NC-----FHHKSIYHGVNFPADGPVMKKTIGWD-SFEKMT--VSKDVLKGDVT 160
Q66PV7/5-226 LEG--NC-----FHHKSIYHGVNFPADGPVMEKKTIGWD-SFEKMT--VSKEVLKGDVT 160
A8CLY3/5-226 LEG--NC-----FHHKSIYHGVNFPADGPVMKKTIGWD-SFEKMT--VSKEVLKGDVT 160
Q66PV8/5-226 LEG--NC-----FHHKSIYHGVNFPADGPVMKKTIGWD-SFEKMT--VSKEVLKGDVT 160
Q66PV9/5-226 LEG--NC-----FHHKSIYHGVNFPADGPVMKKTIGWD-SFEKMT--VSKEVLKGDVT 160
A8CLX9/5-226 LEG--NC-----FHHKSIYHGVNFPADGPVMKKTIGWD-SFEKMT--VSKEVLKGDVT 160
B6CTZ3/5-226 LEG--NC-----FHHKSIYHGVNFPADGPVMKKTIGWD-SFEKMT--VSKEVLKGDVT 160
Q6I7B1/6-227 LEG--NC-----FHHKSIYHGVNFPADGPVMKKTIGWD-SFEKMT--VSKEVLKGDVT 160
Q66PV6/5-226 LEG--NC-----FHHKSIYHGVNFPADGPVMTKKTIGWD-AFEKMT--GFNEVLKGDVT 160
Q86LV8/1-213 L--TGSV-----FEHKSIFHGVNFPANGPVIQKKTILGWET-STEKMA--ANDGSVQGYDT 156
Q86LV7/1-213 L--TGNV-----FEHKSIFHGVNFPANGPVIQKKTILGWET-STEKMA--ANDGSVQGYDT 156
A8CLR1/5-220 L--EGDC-----FEHECEFVGVNFPANGPMQKKTQGWE-STEKMT--AHGKVVQGNVP 160
Q6R8F5/5-223 L--NGNC-----FVHQSIFHGVNFPADGPVMQKKTIVGWE-STEKMI--VRDGLKGDVT 158
Q6R8F4/1-219 LK--GNW-----FVHQSIFHGVNFPADGPVMQKKTIVGWE-STEKMI--VRDGLKGDVT 158
Q6R8F3/5-220 IE--KDG-----FKHRSKFGVGNFPNPGVMQKKTTRGWE-STEKMT--VRDGLKGHVT 159
Q6I7B2/2-218 L--RGNT-----FHHKSKFTGVNFPADGPTMQNSQSDWE-STEKIT--ASDGLKGDVT 160
A7VMR3/2-218 L--RGNT-----FHHKSKFTGVNFPADGPTMQNSQSDWE-STEKIT--ASDGLKGDVT 160
Q6I7B4/1-210 L--RGNC-----FEHKSIFHGVNFPADGPVMQNSDWE-STEKIT--TYDGLKGDVT 153
Q6I7B3/1-217 L--RGNC-----FEHKSIFHGVNFPADGPVMQNSDWE-STEKIT--TCDGLKGDVT 160
A8CLQ6/5-221 L--KGD-----FEHKSIFHGVNFPADGPVMQKKTILNWE-STEKIT--VSDGLKGDVT 160
A8CLW9/4-223 L--IGNR-----FEHKSIFHGVNFPADGPVMQKKTILNWE-SSEKIT--PRDGLKGYVP 158
Q9S86/2-220 -SLEGNC-----LHYKVKVLTGNFPADGPVMKKTISGGWE-CTEIVY--QDNGVLRGRNV 158
Q9S11/2-220 -SLEGNC-----LHYKVKVLTGNFPADGPVMKKTISGGWE-CTEIVY--QDNGVLRGRNV 158
Q8MU45/2-220 -SLEGNC-----PIYKVKVLTGNFPASVPVMMKVSSGWE-STEIVY--QDNGVLRGRNV 158
Q9S85/2-220 -SLEGNC-----LHYKVKVLTGNFPADGPVMKKTISGGWE-CTEVVY--PENGVLKGRNV 158
ASYTR7/2-222 -SLDGD-----LHYKVKILGNFPADGPVMQKKAERWE-ATEIVY--EVDGVLKRGSL 158
Q9GZ28/2-222 -SLDGD-----LHYKVKILGNFPADGPVMQKKAERWE-ATEIVY--EVDGVLKRGSL 158
ASYTR8/2-222 -SLDGD-----LHYKVKILGNFPADGPVMQKKAERWE-ATEIVY--EVDGVLKRGSL 158
Q9GP15/2-222 -SLDGD-----LHYKVKILGNFPADGPVMQKKAERWE-ATEILY--EVDGVLKRGSL 158
Q2VFP3/2-221 -SLQGNC-----FIKVNIVGANFPANGPMQKKTAGWE-CVEMLY--PRDGLKCGQL 158
A0AQ7/2-222 -KLDGNC-----LVYNIKILGNCNFPNPGVMQKKTQGWE-CCEMRY--TRDGLKCGQL 158
A0AQ8/2-222 -KLDGNC-----LVYNIKILGNCNFPNPGVMQKKTQGWE-CCEMRY--TRDGLKCGQL 158
Q8T5F8/2-222 -SLEDGC-----LHYHAKVGTGNFPNPGVMQKKTAGWE-NTEMLY--PADGGLRGYSQ 158
Q86LV4/2-220 -SLEDGC-----IICNIKVHGTNFPADGPVMQKKTIVGWE-STETVI--PRDGLKRDV 158
Q5QIU5/2-220 -SLKGD-----IICNIKVHGTNFPADGPVMQKKTIVGWE-STETVI--PRDGLKRDV 158
Q8T6T9/2-220 -SLEDGC-----IICNIKVHGTNFPADGPVMQKKTIVGWE-STETVI--PRDGLKRDV 158
Q8T5E7/2-220 -SLKGD-----IICNIKVHGTNFPADGPVMQKKTIVGWE-STETVI--PQDGGIVAARS 159
ASYTR6/2-219 -SLQGD-----IICNVKVLGNFPANGPMQKKTIVGWE-STETVI--PRDGLKLLRDT 158
Q9GP16/2-219 -SLQGD-----IICNVKVLGNFPANGPMQKKTIVGWE-STETVI--PRDGLKLLRDT 158
Q5ZQ06/2-221 -TLKGD-----ITTYSEVGT--FPPNGVMKKTILNWE-SCENVI--PRDGLIMYDN 157
B9UPG6/1-219 -TFKDN-----VYGDVWALGVNFPNPGVMKNEIVMEP-AEETLI--PQNGVLKGF 158
Q5ZQ05/1-219 -TYKDK-----LHGDVWALGVNFPNPGVMKNEIVMEP-AEETLI--AKNGVLKGF 158
Q7Z168/1-218 -TYKDN-----LHGDVWAVGVNFPNPGVMKNEIVMEP-TEETFT--PKNGLKGF 157
Q9BLZ0/8-225 -SLEDD-----FHHKVEYRGVGNFPNPGVMQKKTILGWE-SFEVY--MNSGVLKGEVD 158
Q9BLY9/8-225 -NLIED-----FVYRVEYKGSNFPDGPVMQKKTILGWE-SFEAMY--MNGVLKGEVI 158

Q963I9/5-223 -SLEDGK----FIVNVDFKAKDLRRMGPMVQDDIVGMQP--SYESMY--TNVTSVIGECI 158
A8CLX6/5-222 -SLKGN-----LVHKTNFQGNFIDGPMVQKRTLWEP--TSEKMT--PCDGIIGDITI 158
A753R2/57-279 LKDG-----LHYHTNFHGINLKPDPVPMQKRTMGWLP--SVETNI--PRRDTLLGDIN 159
A7RGQ5/1-174 LKNR-----LHYHTTFHGINLNPKEPLMQRKRTMGWLP--SVETNI--PRGDTLVGDIN 147
A751H5/1-224 LDKDG-----LHYHMTFQGINLDPNGPMVKMTMGWLP--SVETNI--PRGTLVGDIN 160
A751H3/1-82 HQNGS-----LHYHVTFHGINPKTDGPMVQKITMGWSP--SVE----- 82
B1PNC2/5-218 YEGSHIKG-----EFQVNGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 152
B1PNC0/4-217 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 153
B1PNC1/5-218 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 152
B1PNC4/5-218 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 152
B1PNC4/5-218 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 152
C3YR99/48-261 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 154
B1PNC3/4-217 YEGTHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 154
B1PNB8/5-217 YEGTHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 153
B1PNB9/4-216 YEGTHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 154
C3YRA1/51-267 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 154
C3YRA2/11-223 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 153
B1PND7/4-187 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 154
B1PND6/5-189 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 152
B1PND8/4-184 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 154
B1PND5/5-186 YEGSHIKG-----EFQVIGTGFPADGPMVMTNSLTTADWCVTMPLY--PNDKTIISTFD 153
C3YRA3/4-216 YDGGHIK-----EFHVGSGFLDGGPMVTKSLTAVDWSVATMLF--PNDTIVSTID 153
B1PND3/4-217 YNGNHIK-----EFRLTSGFPPADGPMVMTNSLTTADWCVDKLLY--PDNTIIGKFD 154
B1PND2/5-217 YNGNHIK-----EFRLTSGFPPADGPMVMTNSLTTADWCVDKLLY--PDNTIIGKFD 153
B1PNC9/4-217 YKGNHIK-----EFRLTSGFPPADGPMVMTNSLTTADWCVDKLLY--PDNTIIGKFD 154
B1PNC6/5-217 YKGNHIK-----EFRLTSGFPPADGPMVMTNSLTTADWCVDKLLY--PDNTIIGKFD 153
B1PNC7/4-220 YKGNHIK-----EFRLTSGFPPADGPMVMTNSLTTADWCVDKLLY--PDNTIIGKFD 154
B1PND0/5-220 YKGNHIK-----EFRLTSGFPPADGPMVMTNSLTTADWCVDKLLY--PDNTIIGKFD 153
B1PNC5/5-220 YKGNHIK-----EFRLTSGFPPADGPMVMTNSLTTADWCVDKLLY--PDNTIIGKFD 153
B1PND1/5-217 YNGNHIK-----EFRLTSGFPPADGPMVMTNSLTTADWCVDKLLY--PDNTIIGKFD 153
B1PND4/5-217 YNGNHIK-----EFRLTSGFPPADGPMVMTNSLTTADWCVDKLLY--PDNTIIGKFD 153
B1PNC8/4-69 ----- 97
C3YRA0/8-104 YDGNHE----- 97
C3YKQ3/5-218 YEGSHIKA-----DMKLMGSGFPDDGPMVMTNSLQIVDQDGCVSCKTY--LNNNTIVDSFD 152
C3YK7/5-217 YEGTHIKS-----DFKLMGSGFPDDGPMVMTNSLQIVDQDGCVSCKTY--LNDNTIVDSFD 152
C3YKQ2/53-191 YEGGKIKG-----EFQLIGSGFPAGGPMVMSGGLTTLDRSVAKLQC--SDDCTITGTNN 79
A8QV29/4-215 YEGGKIKG-----EFQLIGSGFPAGGPMVMSGGLTTLDRSVAKLQC--SDDCTITGTNN 152
C3YK9/5-215 YEGGKIKG-----EFQLIGSGFPAGGPMVMSGGLTTLDRSVAKLQC--SDDCTITGTNN 151
C3YKQ1/4-215 YEGGKIKG-----EFQLIGSGFPAGGPMVMSGGLTTLDRSVAKLQC--SDDCTITGTNN 152
C3ZL00/369-585 YSGGKIQ-----EFHLVSGFCPPDDSPVMTNLTGLDRSVAKLQC--VSDDKLAEFVD 156
C3YK10/4-218 YSGGKIQ-----EFHLVSGFCPPDDSPVMTNLTGLDRSVAKLQC--VSDDKLAEFVD 155
C3YKQ0/5-214 YSGNKIKG-----EFHVGSGFPDDGPMVMTNSLQHDHNVRLMV--LGDKTIIGSDNM 151
Q6W10/1-215 YEGNKIG-----DFKVVGTGFPPTNSLIFTDKIISNPTCEMFY--KADNVLVNAVY 155
Q6W09/1-217 YEGNKIG-----DFKVVGTGFPPTNSLIFTDKIISNPTCEMFY--KADNVLVNAVY 155
Q6W11/1-215 YEGNKIG-----DFKVVGTGFPPTNSLIFTDKIISNPTCEMFY--KADNVLVNAVY 155
Q6W12/1-213 YEGNKIG-----DFKVVGTGFPPTNSLIFTDKIISNPTCEMFY--KADNVLVNAVY 155
Q6W13/1-214 YEGNKIG-----DFKVVGTGFPPTNSLIFTDKIISNPTCEMFY--KADNVLVNAVY 155
Q6W08/1-214 YEGNKIG-----DFKVVGTGFPPTNSLIFTDKIISNPTCEMFY--KADNVLVNAVY 155
Q2MH7/1-215 YEFNKIIG-----DVEICIGHFSPQSPFKDITVKSCTPVDLMLP--MSGNIIASSYA 153

Q17106/5-229 IRHNKIDG---SVQLADHYQNTPIGD--GPVLLPDN--HYLSTQSALSQDP--HGKRDHML 216
Q17105/5-229 IRHNKIDG---SVQLADHYQNTPIGD--GPVLLPDN--HYLSTQSALSQDP--NEKRDHML 216
P42212/5-229 IRHNIEDG---SVQLADHYQNTPIGD--GPVLLPDN--HYLSTQSALSQDP--NEKRDHML 216
Q6Y20/5-229 IRHNIEDG---SVQLADHYQNTPIGD--GPVLLPDN--HYLSTQSALSQDP--NEKRDHMY 216
Q8WT5/5-229 IRHNIEGG---GVQLADHYQTNVPLGD--GPVLIPIIN--HYLSYQTAISKDR--NETRDHMF 216
Q8WT4/5-229 IRHNIEGG---GVQLADHYQTNVPLGD--GPVLIPIIN--HYLSYQTAISKDR--NETRDHMF 216
Q8WT9/5-229 IRHNIEGG---GVQLADHYQTNVPLGD--GPVLIPIIN--HYLSYQTAISKDR--NETRDHMF 216
Q8WT0/5-229 IRHNIEGG---GVQLADHYQTNVPLGD--GPVLIPIIN--HYLSYQTAISKDR--NETRDHMF 216
Q8WT8/5-229 IRHNIEGG---GVQLADHYQTNVPLGD--GPVLIPIIN--HYLSYQTAISKDR--NETRDHMF 216
Q8WT6/5-229 IRHNIEGG---GVQLADHYQTNVPLGD--GPVLIPIIN--HYLSYQTAISKDR--NETRDHMF 216
Q8WP95/5-229 IRHNIEGG---GVQLADHYQTNVPLGD--GPVLIPIIN--HYLSYQTAISKDR--NETRDHMF 216
Q8WT7/5-229 IRHNIEGG---GVQLADHYQTNVPLGD--GPVLIPIIN--HYLSYQTAISKDR--NETRDHMF 216
Q6RY57/5-229 IMHEITGSKE--DFIVADHTQMNTPIGG--GPVHVPEY--HHITYHTVLSKDV--TDHRDNMSL 216
Q6RY56/39-258 NIYPTKDG---HYVADTQVNRPIRAQGTSAIPTY--HHIKSKVDLSTDP--EENKDHIII 212
Q6RY55/2-222 NIYPTKDG---GYVADTQVNRPIKAEGKSAIPKY--HYIKSKIDLSTDP--NERKDHIII 212
Q6RY54/5-225 GFTTADGG---LMMSHFDSKLTFNRSRAIKIPGP--HFVTIITKQMDT--SDKRDHVCQ 212
Q2TCH5/5-225 GFTTADGG---LMMGHFDSKMTFNRSRAIEIPGP--HFVTIITKQMDT--SDKRDHVCQ 212
Q53UG7/1-221 MALLLQGG---GHYRCDFRTTYKAK--KVV--QLPDY--HFVDHRIEIVSHD--KDYNNVKL 212
Q53UG8/1-221 MALLLQGG---GHYRCDFRTTYKAK--KVV--QLPDY--HFVDHRIEIVSHD--KDYNNVKL 212
Q8MU48/1-218 MALLLEGG---GHFRCDLKTYYKAK--KVV--QMPDY--HFVNHRIEIVSHD--EDYNNVKL 209
A8CLW1/1-218 MALLLEGG---GHFRCDFKTTYKAK--KVV--QLPDY--HFVDHRIEIVSHD--KDYNNVKL 209
B6CTZ4/1-218 MALLLEGG---GHYRCDFKTTYKAK--KVV--QLPDY--HFVDHRIEIVSHD--KDYNNVKL 209
Q5TL66/1-218 MALLLEGG---GHYRCDFKTTYKAK--KVV--QLPDY--HFVDHRIEIVSHD--KDYNNVKL 209
A8CLQ1/1-223 MALLLEGG---GHYRCDFKTTYKAK--KVV--RPSY--HFVDHRIEIVSHD--KDYNNVKL 214
Q2LI65/1-219 MALLLEGG---GHYRCDFKTTYKAK--KVV--QLPEY--HFVDHRIEIVSHD--RDYNNVKL 210
A8CLW4/1-222 MALLLEGG---AGHYRCDFKTTYKAK--KAV--KLPDY--HFVDHRIEIVSHD--KDYNNVKL 213
B6CTZ5/4-224 MALLLEGG---GHYRCDFKTTYKAK--KVV--ELPDY--HFVDHRIEIVSHD--KDYNNVKL 212
A3F207/1-221 MALLLQGG---GHYRCDFKTTYKAK--KVV--PLPDY--HFVDHRIEIVSHD--KDYNNVKL 212
Q962P9/1-221 MALLLEGG---GHYRCDFKTTYKAK--KVV--QLPDY--HFVDHRIEIVSHD--KDYNNVKL 212
Q7Z0W8/1-221 MALLLEGG---GHYRCDFKTTYKAK--KVV--QLPDY--HFVDHRIEIVSHD--KDYNNVKL 212
Q66ND5/1-221 MALLLEGG---GHYRCDFKTTYKAK--KVV--QLPDY--HFVDHRIEIVSHD--KDYNNVKL 212
Q66ND4/1-221 MALLLEGG---GHYRCDFKTTYKAK--KVV--QLPDY--HFVDHRIEIVSHD--KDYNNVKL 212
Q66ND2/1-221 MALLLEGG---GHYRCDFKTTYKAK--KVV--QLPDY--HFVDHRIEIVSHD--KDYNNVKL 212

A7UAL7/1-221	MALLLEGG---GHYRCDFKTTYKAK-KVV--QLPDY-HFVDHRIEIVSHD--KDYNKVKL	212
Q7Z0W6/1-221	MALLLEGG---GHYRCDFKTTYKAK-KVV--QLPDY-HFVDHRIEIVSHD--KDYNKVKL	212
A7UAL9/1-221	MALLLEGG---GHYRCDFKTTYKAK-KVV--QLPDY-HFVDHRIEIVSHD--KDYNKVKL	212
Q8T5F2/8-228	MALLLEGG---GHYRCDFKTTYKAK-KVV--RLPDY-HFVDHRIEIVSHD--KDYNKVKL	212
Q7Z0W7/8-228	MALLLEGG---GHYRCDFKTTYKAK-KVV--RLPDY-HFVDHRIEIVSHD--KDYNKVKL	212
Q8MU47/8-228	MALLLEGG---GHYRXDXKTTYRAK-KVV--QLPDY-HFVDHRIEIVSHD--KDYNKVKL	212
Q95VT0/1-221	MALLLEGG---GHYRCDFKTTYKAK-KVV--RLPDY-HFVDHRIEIVSHD--KDYNKVKL	212
A7UAL3/1-221	MALLLEGG---GHYRCDFKTTYKAK-KVV--RLPDY-HFVDHRIEIVSHD--KDYNKVKL	212
A7UAL6/1-218	MALLLEGG---GHYRCDFKTTYKAK-KFV--QLPDY-HFVDHRIEIVSHD--KDYNKVKL	209
A7UAL8/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVV--QLPDY-HFVDHRIEIVSHD--KDYNKVKL	209
A8CL52/1-219	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q8T6J8/1-219	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
A3F208/1-219	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
A8CLR7/1-219	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q55629/1-219	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q66PW1/5-223	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q8T5F1/1-219	MALLLEGG---GHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q7Z0W9/1-219	MALLLEGG---GHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q6USK3/1-219	MALLLEGG---GHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
A7UAL4/1-219	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
A7UAM0/1-219	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q7Z0W5/1-218	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q95UA7/1-218	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
A7UAL1/1-218	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
A8CLP7/1-218	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
A7UAL2/1-218	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
A7UAL5/1-218	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q963F5/1-218	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q7Z0W4/1-218	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q66ND3/1-218	MALLLEGG---VHYRCDFRTTYKSRQEGV--KLPY-HFVDHCISIVSHD--KDYTKVKL	210
Q2LI64/1-35	-----	-----
Q60I25/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q60I24/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
A8CLT2/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
B5BR3C/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
B6CT26/1-219	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q9U6Y3/43-260	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q8T6U0/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q8T5F0/7-229	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q8T5F3/6-223	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q66PW0/1-221	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q8MU46/1-221	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q8T5E9/1-221	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q8T5E8/1-221	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q8T6T8/1-221	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q66PUS/1-220	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
A8CL57/1-220	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q8MAA2/34-254	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q8MAA1/12-234	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q66ND6/5-222	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q9U6Y7/5-223	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q553G7/6-223	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q553G8/6-223	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q2LI66/5-222	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q66ND8/5-222	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q66ND7/5-222	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q9U6Y8/5-222	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q6KF85/5-222	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q2WG74/7-224	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q9GTJ7/5-223	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
A8CLM7/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
A8CLM1/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q1JU63/2-219	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q1JV71/2-219	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q1JV72/2-219	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q1JV70/2-219	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
B5T1L1/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
A8CLV6/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q66PV0/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q66PUS/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q95P04/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
A8CLL3/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q66PV1/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q66PUS/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
P83690/1-218	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
A8CLN8/6-226	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
B6CT27/1-220	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q9U6Y5/5-228	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q9U6Y4/5-228	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q8T4U4/5-228	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
B2ZAG2/5-226	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
Q692V6/5-228	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	209
B5LIN1/1-161	MALLLEGG---GHYRCDFKTTYKAK-KVDV--RLPDY-HFVDHRIEILKHD--KDYNKVKL	152

B5T1L5/5-228 MYLLLKDG---GRYRCQFDITYKAKSDPK--EMPEW-HFIQHKLTREDRS-DAKNQKWQL 215
Q66PV2/5-228 MYLLLKDG---GRYRCQFDITYKAKSDPK--EMPEW-HFIQHKLTREDRS-DAKNQKWQL 215
Q86LC2/5-228 SYLLLKDG---GRYHCQIDSVYKAKSEPK--KMPDR-HFIQHKLTREDRS-DATNQKWQL 215
B2ZAG1/5-228 MYLLLKDG---GRYRCQFDSVYKAKSKPK--VMPDW-HFIQHKLTREDRS-DAKNQKWQL 215
A8CLN4/5-231 MFLLLKDG---GRYRCQFDITYKAKSDPKTMMPPDW-HFIQHKLNREDRS-DAKHQKWRL 218
A8CLV1/5-230 MFLLLKDG---GRYRCQFDITYKAKSDPKTMMPPDW-HFIQHKLNREDRS-DAKHQKWRL 217
A8CLU7/1-223 EFLLLKDG---KRYKCFHTFHDAKEKSRNMPMPDF-HFVQHEIERKDLG-GPM-QTWQL 214
A8CLP2/5-228 GFLLLKDG---KRYKCFHTFHDAKDKSKMPPMPDF-HFVQHKIERKDLG-GSM-QTWRL 215
B6CTZ2/5-226 EFLLLKDG---GRYKCFHTVYRAKTEPK--RMPEF-HFVQHKLTRDVS-DPLKQWQL 213
Q2VTM9/5-219 MFLMLEGG---HRLKCFQFTTSYK-AKAV--KMPPN-HIEHRLVRKEVADA-----VQI 206
Q1ALD3/5-219 MFLMLEGG---HRHKCFQFTTSYK-AHKAV--KIPPN-HIEHRLVRKEVGDA-----VQI 206
Q1ALD5/5-219 MFLMLEGG---HRQKCFQFTTSYK-ASKAV--KMPPN-HIEHVVMKGEDSDG-----FQI 206
Q1ALD4/5-219 MFLVLEGG---HRLKCLFQTTYK-ADKVV--KMPPN-HIEHRLVRSEGDGA-----VQI 206
Q09HR5/5-219 MFLMLEGG---YQKCFQFTTYR-TDKTV--KMPPN-HIEHRLVRSEGDGA-----VQI 206
Q2VTM8/5-219 MFLKLEGG---QHRQCFQTTYK-AHKAV--KMPPN-HIEHRLVRSEGDGA-----VQL 206
A8CLU1/1-218 MFLSLTDG---GNHRCQFSTLYK-AKAV--KLPTESHVVEHRLVRTDLPNGK-----VQL 209
Q9U6Y6/5-224 AFLMLQGG---GNYRCQFHTSYK-TKPV--TMPPN-HVVEHRIARTDLGK--GNSVQL 211
A8CLT7/5-222 MFLMLEGG---KNYKCFHTSYK-TKPV--TLPSN-HVVEHRIVRTLDKA--GNHVQL 209
Q66ND1/5-220 MFLKLEGG---GYHSCQFHSTYK-TKEPV--TLPPN-HVVEHRIVRTDIED-----KKVLL 207
Q66PV5/5-226 EFLMLEGG---GYHSCQFHSTYK-PEKPV--TLPPN-HVVEHRIVRTDLGQTAKGFTVKL 213
B5T1L2/5-226 EFLMLEGG---GYHSCQFHSTYK-PEKPV--TLPPN-HVVEHRIVRTDLGQRAKGFVKL 213
Q66PV3/5-226 EFLMLEGG---GYHSCQFHSTYK-PEKPA--ALPPN-HVVEHRIVRTDLGQSAKGFVKL 213
B5T1L0/5-226 EFLMLEGG---GYHSCQFHSTYK-PEKPA--ALPPN-HVVEHRIVRTDLGQSAKGFVKL 213
Q66PV4/5-226 GFLMLEGG---GYHSCQFHSTYK-PEKPA--ALPPN-HVVEHRIVRTDLGQSAKGFVKL 213
B5LIN0/5-226 EFLMLEGG---GYHSCQFHSTYK-PEKPG--TLPPN-HVVEHRIVRTDLGQSAKGFVKL 213
B5T1L3/5-226 MFLMLEGG---GYHRCQFHSTYK-PEKPG--TLPPN-HVVEHRIVRTDLGQSAKGFVKL 213
B5T1L4/5-226 MFLMLEGG---GSHRCQFHSTYK-TEKPV--TLPPN-HVVEHQIVRTDLGQSAKGFVKL 213
Q66PV7/5-226 MFLMLEGG---GSHRCQFHSTYK-TEKPV--TLPPN-HVVEHQIVRTDLGQSAKGFVKL 213
A8CLY3/5-226 MFLMLEGG---GSHRCQFHSTYK-TEKPV--TLPPN-HVVEHQIVRTDLGQTAKGFTVKL 213
Q66PV8/5-226 MFLMLEGG---GSHRCQFHSTYK-TEKPV--TLPPN-HVVEHQIVRTDLGQSAKGFVKL 213
Q66PV9/5-226 MFLMLEGG---GYHRCQFHSTYK-TEKPV--ELPPN-HVVEHQIVRTDLGQSAKGFVKL 213
A8CLX9/5-226 MFLMLEGG---GYHRCQFHSTYK-TEKPV--ELPPN-HVVEHQIVRTDLGQSAKGFVKL 213
B6CTZ3/5-226 MFLMLEGG---GYHRCQFHSTYK-TEKPV--TLPPN-HVVEHQIVRTDLGQSAKGFVKL 213
Q6I7B1/6-227 QFLLLEGG---GYQRCFHSTYK-TEKPV--AMPPS-HVVEHQIVRTDLGQTAKGFKVKL 213
Q66PV6/5-226 EFLMLEGG---GYHSCQFHSTYK-PEKPV--ELPPN-HVVEHRIVRTDLGQTAKGFVKL 213
Q86LV8/1-213 MFLKLEGG---GRHKCYFVTNHK-AKRAV--KVPDN-HFVWHRLVRN-----GDGNTVEL 204
Q86LV7/1-213 MFLKLEGG---GRHKCYFVTNHK-AKRAV--KVPDN-HFVWHRLVRN-----GDGNTVEL 204
A8CLR1/5-220 MFLKLEGG---GHRRCDFRTTYK-AKADV--KMPNS-HFITHCLVRK-----GDGNITEL 208
Q6R8F5/5-223 MYLKLKDG---GNYRCYRTIYK-AKADV--KMPKS-HFVEHTLVRNNIKKDAKGNITEL 211
Q6R8F4/1-219 MYLKLKDG---GNYRCDYRTIYK-AKADV--KMPKS-HFVEHTLVRNNIKKDAKGNITEL 211
Q6R8F3/5-220 MFLKLEGG---GNYRCDFETTYK-AKAV--KMLDS-HFIEHRLVTT-----IRGNVVEL 207
Q6I7B2/2-218 MYLKLKDG---GNHKCFKTTYKAAKIL--KMPGS-HYISHRLVRK-----TEGNITEL 209
A7VMR3/2-218 MYLKLKDG---GNHKCFKTTYKAAKIL--EMPGD-HYIGHRLVRK-----TEGNITEL 209
Q6I7B4/1-210 MFLKLEGG---GNHKCFKTTYKAAKVL--KMPQS-HFIGHRLVRK-----TKGNITEL 202
Q6I7B3/1-217 MFLKLAGG---GNHKCFKTTYKAAKIL--KMPQS-HFIGHRLVRK-----TEGNITEL 209
A8CLQ6/5-221 MFLKLVGG---GNHKCFKTTYKAAKVL--DMPQS-HFIFHRLVRK-----TEGNITEL 209
A8CLM9/4-223 SFLVLQGG---GNYRCDYDTSYR-AMKPV--EMPGG-HFIQHRIVRRDIKDKSNGNTWQI 211
Q95W86/2-220 MALKVSG--R-PPLICHLHSTYRSKKAC-ALTMPGF-HFADLRIQMPK-K--KKDEYFEL 210
Q95W11/2-220 MALKVSG--R-PPLICHLHSTYRSKKAC-ALTMPGF-HFADLRIQMPK-K--KKDEYFEL 210
Q8MU45/2-220 MALKVSG--R-PPLICHLHSTYRSKKAC-ALTMPGF-HFADLRIQMPK-K--KKDEYFEL 210
Q95W85/2-220 MALKVGD--R-R-LICHLHSTYRSKKAVRALTMPGF-HFTDIRLQMPK-K--KKDEYFEL 210
ASVTR7/2-222 MALKCPG--G-RHLTCHLHSTYRSKKPASALKMPGF-HFDHRIEIMEEV--EKGKCYKQ 212
Q9GZ28/2-222 MALKCPG--G-RHLTCHLHSTYRSKKPASALKMPGF-HFDHRIEIMEEV--EKGKCYKQ 212
ASVTR8/2-222 MALKCPG--G-RHLTCHLHSTYRSKKPASALKMPGF-HFDHRIEIMEEV--EKGKCYKQ 212
Q9GP15/2-222 MALKCPG--G-RHLTCHLHSTYRSKKPASALKMPGF-HFDHRIEIMEEV--EKGKCYKQ 212
Q2VFP3/2-221 MALKCTD--G-NHLTSHLRTTYRSRKPNSAVNMPGF-HFDHRIEILK-A--EQGFYEQ 211
A0AQQ7/2-222 MALKCAD--G-NHLTCHLRTTYRSKKAALQMPGF-HFSDHRIEIVKVS--ENGLFEQ 212
A0AQQ8/2-222 MALKCAD--G-NHLTCHLRTTYRSKKAALQMPGF-HFSDHRIEIVKVS--ENGLFEQ 212
Q8ISF8/2-222 MALNVGD--G-GYLSCSFETTYRSKKTVENFKMPGF-HFVDHRLERLEES--DKEMFVQ 212
Q86LV4/2-220 PALKLRNN-K-GHLLCVMETTYKPNK---KVNLPK-HFHHLRMEKDSIS--DDEKTIQ 210
Q5QIU5/2-220 PALKLRNN-K-GHLLCVMETTYKPNK---KVNLPK-HFHHLRMEKDSIS--DDEKTIQ 210
Q8T6T9/2-220 PALKLLGN-K-GHLLCVMETTYKSKK---KVNLPK-HFHHLRMEKDSIS--DDEKTIQ 210
Q8T5E7/2-220 PALRLRD--K-GHLICHMETTYKPNK---EVLPEL-HFHHLRMEKLSVS--DDGKTIQ 210
ASVTR6/2-219 PALMLAD--G-GHLSCFMETTYKSKK---EVLPEL-HFHHLRMEKLNIS--DDWKVTEQ 209
Q9GPI6/2-219 PALMLAD--G-GHLSCFMETTYKSKK---EVLPEL-HFHHLRMEKLNIS--DDWKVTEQ 209
Q5ZQ06/2-221 IALKLDDHG--GLTGNFKATYKSNP--NINLPKH-HFVENRVELEGR--DGGNYVKL 211
B9UPG6/1-219 KAYLLKDG---SYYYGKMTTFYRSKKSQ--ALPGF-HFIQHRIVKTKVE--PGFKMVEQ 210
Q5ZQ05/1-219 KAYLLKDG---SYYYGKMTTFYRSKKSQ--ALPGF-HFIQHRIVKTKVE--PGFKMVEQ 210
Q7Z168/1-218 KAYLLKDG---SYYYGKMTTFYRSKKSQ--APPGY-HFVKHRLVKTNG--HGFKTVEQ 209
Q9BL20/8-225 LVYKLESG---NYSCHMKTTFYRSKGVK--EFPEY-HFIIHRLKTYVE--EGS-FVEQ 209
Q9BLY9/8-225 LVYKLESG---KYYSCHMKTLMKSGVVK--EFPSY-HFIQHRLEKTYVE--DGG-FVEQ 209
Q963I9/5-223 IAFKLQGT---KHFTYHMRVYKSKPV--TMPLY-HFIQHRIVKTNVD--TASGVVQ 210
A8CLX6/5-222 MYLMVEGG---KTLKCRYENYRANKPVL--MPPS-HFVDLRLTRTND--KEGLAFKL 209
A7S3R2/57-279 MLLKVNDG---SFLRVQFETVYRMPKVPAGFKMPPHFMAYRLTRVND--EHCDTVIQ 214
A7RGQ5/1-174 MLLKVNDG---SFLRVKFTVYRYVYV-----LYQK-----174
A7S1H5/1-224 MLLKVNDG---SFLRVKFTVYRMPKVPAGFKMPPHFMAYRLTRVND--ADCNVLL 215
A7S1H3/1-82 -----
B1PNC2/5-218 WTYTTGSGK---RYQSTVRTNYTFAPMAANILQKQ-PMFVFRKTELKHS----KTELNF 204
B1PNC0/4-217 WTYTTGSGK---RYQSTVRTNYTFAPMAANILKKNQ-PMFVFRKTELKHS----KTELNF 205
B1PNC1/5-218 WTYNTASGK---RYQSTVRTNYTFNPKMAANILKKNQ-PMFVFRKTELKHS----KTELNF 204
B1PNC4/5-218 WTYTTGSGK---RYQSTVRTNYTFAPMAANILKKNQ-PMFVFRKTELKHS----KTELNF 204
C3YR99/48-261 WTYTTTEGK---RYQSTVRTNYTFAPMAANILQKQ-PMFVFRKTELKHS----KTELT 206
B1PNC3/4-217 WTYTTGSGK---RYQSNVRSNFTFAKPIAANILQKQ-PMFVFRKTELKHS----KTELNF 206

B1PNB8/5-217 WYTTTSGK---RYQSNVRSNFTFAKPIAANILQKQ-PMFVFRKTELKHS----KTELN 205
B1PNB9/4-216 WYTTTSGK---RYHSNVRSNFTFAKPIAANILQKQ-PMFVFRKTELKHS----KTELN 206
C3YRA1/51-267 KTYTTTSGK---RYQCTFRENNTFAKPMADILQKQ-PMFIFHKTELQHSN---NAELTF 207
C3YRA2/11-223 CSYTTTAGK---RYQSKMRENNTFAKPMADILQKQ-PMFVFRKSELQHS----KTELTF 205
B1PND7/4-187 QTYTTTSGK---GYKSTVRTNNTFAKPIAADMM----- 184
B1PND6/5-189 QTYTTASGK---GYKSTVRTNNTFAKPMADMMQNO----- 185
B1PND8/4-184 QTYTTTSGK---GYQSTVRTNNTFAEPIAA----- 181
B1PND5/5-186 QTYTTASGK---RYQGTVRTNNTFAKPIAANI----- 182
C3YRA3/4-216 WTCPTTSGK---RYHATVRTNYTFAKPIAASILQKQ-PMFVFRKTEVKAS----DAEINL 205
B1PND3/4-217 WYTTTSGK---RYQSDVQTNVTFKPIASADILKKQ-PMFVFRKVELKHS----KTELN 206
B1PND2/5-217 WYTTTSGK---RYQSDVQTNVTFKPIASADILKKQ-PMFVFRKVELKHS----KTELN 205
B1PNC9/4-217 WYTTTSGK---RYQSDVQTNVTFKPIAADILKKQ-PMFVFRKVELKHS----KTELN 206
B1PNC6/5-217 WYTTTSGK---RYQSDVQTNVTFKPMADILKKQ-PMFVFRKVELKHT----KTELN 205
B1PNC7/4-220 WYTTTSGK---RYQSDVQTNVTFKPIAADILKKQ-PMFVFRKVELKHT----KTELN 206
B1PND0/5-220 WYTTTSGK---RYQSDVQTNVTFKPIAADILKKQ-PMFVFRKVELKHT----KTELN 205
B1PNC5/5-220 WYTTTSGK---RYQSDVQTNVTFKPIAADILKKQ-PMFVFRMELKHT----KTELN 205
B1PND1/5-217 WYTTTSGK---RYQSDVQTNVTFKPIASADILKKQ-PMFVFRKVELKHS----KTELN 205
B1PND4/5-217 WYTTTSGK---RYQSDVQTNVTFKPIASADILKKQ-PMFVFRKVELKHS----KTELN 205
B1PNC8/4-69 -----
C3YRA0/8-104 -----
C3YKQ3/5-218 WSYNLQNGK---RYRARSVSHYIFDKPFSADLKKQ-PVFVYRKHVVKAS----KTEVTL 204
C3YK9/5-217 WSYNLQNGK---RYRARTVSNYIFGKPLAADVMKKQ-PVFVYRKYVKST---QTEITL 204
C3YKQ2/53-191 WSFCTTDGK---RHQADVQTNVTFKPLPAGLKEKM-PIFLGHQIEVKAS----KTEITL 131
A8QK29/4-215 WSFCTTDGK---RHQADVQTNVTFKPLPAGLKEKM-PIFLGHQIEVKAS----KTEITL 204
C3YK9/5-215 WSFCTTDGK---RHQADVQTNVTFKPLPAGLKEKM-PIFLGHQIEVKAS----KTEITL 203
C3YKQ1/4-215 WSFCTTDGK---RHQADVQTNVTFKPLPAGLKEKM-PIFLGHQIEVQAS----KTEINL 204
C3ZLQ0/369-585 WYRTSSGG---RYRATVQTNVTFKPIAAGLKNM-PMFVFRQLEVTGS----KTEISL 208
C3YK10/4-218 WSYRTSSGG---RYRATVQTNVTFKPIAAGLKNM-PMFVFRQLEVTGS----KTEISL 207
C3YKQ0/5-214 WFTFTEKGGK---KRYKAEVMTNATFAQNLQPLKNVM-PLFVFRKVDIDCS----KTEVTL 205
Q6WV10/1-215 RTYLLKDDG---YSAQVNNHMHFKSAIHTTMLQNGGSMFTYRVEEHT---QNEVAI 208
Q6WV09/1-217 RTYLLKDDG---YSAQVNNHMHFKSAIHPTMLQNGGSMFTHRVEENHT---KTNVAI 208
Q6WV11/1-215 RTWMLRDGG---YSAQVNNHMHFKTAMHPTMLQNGGSMFTYRVEELHS---QSDVGI 208
Q6WV12/1-213 RTFSLRDGG---YYSFVVDSHMHFKSAIHPSILQNGGPMFAFRRVEELHS---NTELGI 208
Q6WV13/1-214 RTFSLRDGG---YYSFVVDSHMHFKSAIHPSILQNGGPMFAFRRVEELHS---NTELGI 208
Q6WV08/1-214 RTLSLRDGG---YYSQVTSIHIFKNAIHPSILHNGGSMFTYRVEELHT---QTDLGI 208
Q2MHN7/1-215 RAFQLKDG---FYTAEVKNIDFKNPIHESFSKSG-PMFTHRVEEHT---KENLAM 205

Q17106/5-229 LEFVTSAGI--- 225
Q17105/5-229 LEFVTAARI--- 225
P42212/5-229 LEFVTAAGI--- 225
Q6YGZ0/5-229 FEFVTAAGI--- 225
Q8WTC5/5-229 LEFFSACGH--- 225
Q8WTC4/5-229 LEFFSACGH--- 225
Q8WTC9/5-229 LEFFSACGH--- 225
Q8WTD0/5-229 LEFFSACGH--- 225
Q8WTC8/5-229 LEFFSACGH--- 225
Q8WTC6/5-229 LEFFSACGH--- 225
Q8WP95/5-229 LEFFSACGH--- 225
Q8WTC7/5-229 LEFFSACGH--- 225
Q6RYS7/5-229 VETVRAVDC--- 225
Q6RYS6/39-258 KETNCAFDF--- 220
Q6RYS5/2-222 KEVNVASGI--- 221
Q6RYS4/5-225 REVTYAHSV--- 221
Q2TCH5/5-225 REVAYAHSV--- 221
Q53UG7/1-221 YEHAKAHSG--- 221
Q53UG8/1-221 YEHAKAHSG--- 221
Q8MU48/1-218 SEHAEAHSG--- 218
A8CLW1/1-218 CEHAEAHSG--- 218
B6CTZ4/1-218 CEHAEAHSG--- 218
Q5TLG6/1-218 HEHAEAHSE--- 218
A8CLQ1/1-223 HEHAEAHSG--- 223
Q2LI65/1-219 REHAEAHFG--- 219
A8CLW4/1-222 REHAEAHSG--- 222
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