

**Supplementary Figure S7.** Multiple sequence alignments of eleven accessions used as parents for the generation of Recombinant Inbred Lines for all BdTLP proteins

**BdTLP1**

Bd21-3	MSFRSIVRDVRDGFGLSRRSFEGTISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
Bd3-1	MSFRSIVRDVRDGFGLSRRSFVETISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
Bd21	MSFRSIVRDVRDGFGLSRRSFVETISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
ABR6	MSFRSIVRDVRDGFGLSRRSFVETISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
Bd30-1	MSFRSIVRDVRDGFGLSRRSFVETISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
Bd2-3	MSFRSIVRDVRDGFGLSRRSFVETISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
RON2	MSFRSIVRDVRDGFGLSRRSFVETISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
Tek-4	MSFRSIVRDVRDGFGLSRRSFVETISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
Bd1-1	MSFRSIVRDVRDGFGLSRRSFVETISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
Bd29-1	MSFRSIVRDVRDGFGLSRRSFVETISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
Koz-3	MSFRSIVRDVRDGFGLSRRSFVETISGLSGLTGHHRGKSQSTVHELRLDADLIVQESRWA	60
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Bd21-3	CLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
Bd3-1	CLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
Bd21	CLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
ABR6	CLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
Bd30-1	CLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
Bd2-3	CLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
RON2	CLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
Tek-4	SLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
Bd1-1	SLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
Bd29-1	SLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
Koz-3	SLPPELLRDVIRRLLEASEGTWPSRKHVVSAAVCRAWREMCREIVISPEFCGKLTFFVSL	120
*****		
Bd21-3	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
Bd3-1	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
Bd21	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
ABR6	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
Bd30-1	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
Bd2-3	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
RON2	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
Tek-4	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
Bd1-1	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
Bd29-1	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
Koz-3	KQPGPRDGMIQCFIKRDKSKSTYHLYLCLSTAVLVENGKFLLSAKRNRKTTCTEYVISMD	180
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Bd21-3	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
Bd3-1	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
Bd21	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
ABR6	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
Bd30-1	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
Bd2-3	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
RON2	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
Tek-4	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
Bd1-1	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
Bd29-1	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
Koz-3	ADNISRSSSTYIGKLRSNFLGTFKFIYVDTQPPHDGAVVPPVGRSSRRFNSKKVSPKVPSPG	240
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Bd21-3	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300
Bd3-1	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300
Bd21	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300
ABR6	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300
Bd30-1	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300
Bd2-3	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300
RON2	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300
Tek-4	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300
Bd1-1	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300
Bd29-1	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300
Koz-3	SYNIAQVTYELNVLGTRGPRRMNCIMQSI PASSVEPGGIVPGQPEQILPRALEESFRSIT	300

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Bd21-3	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360
Bd3-1	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360
Bd21	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360
ABR6	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360
Bd30-1	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360
Bd2-3	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360
RON2	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360
Tek-4	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360
Bd1-1	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360
Bd29-1	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360
Koz-3	SFSKSSIMDRSMDFSSSRDFSSSTHFSDIAGGTINSDEEEQNKERPLVLRNKVPRWHEQLQ	360

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Bd21-3	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420
Bd3-1	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420
Bd21	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420
ABR6	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420
Bd30-1	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420
Bd2-3	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420
RON2	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420
Tek-4	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420
Bd1-1	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420
Bd29-1	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420
Koz-3	CWCLNFRGRVTIASVKNFQLIAAPLQPPAGAPTPSQPAPPEQDKIILQFGKVSKDMFTMD	420

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Bd21-3	YRYPLSAFQAFAICLSSFDTKLACE	445
Bd3-1	YRYPLSAFQAFAICLSSFDTKLACE	445
Bd21	YRYPLSAFQAFAICLSSFDTKLACE	445
ABR6	YRYPLSAFQAFAICLSSFDTKLACE	445
Bd30-1	YRYPLSAFQAFAICLSSFDTKLACE	445
Bd2-3	YRYPLSAFQAFAICLSSFDTKLACE	445
RON2	YRYPLSAFQAFAICLSSFDTKLACE	445
Tek-4	YRYPLSAFQAFAICLSSFDTKLACE	445
Bd1-1	YRYPLSAFQAFAICLSSFDTKLACE	445
Bd29-1	YRYPLSAFQAFAICLSSFDTKLACE	445
Koz-3	YRYPLSAFQAFAICLSSFDTKLACE	445

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## BdTLp2

Bd21-3	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
Tek-4	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
Bd3-1	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
Bd21	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
ABR6	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
Bd30-1	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
Bd2-3	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
RON2	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
Koz-3	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
Bd29-1	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
Bd1-1	MSFRSIVRDVRESFGSLSRGFEVRISGLPGLSGHHRGKSVGSLSELDRPLVVDQSEWV	60
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Bd21-3	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
Tek-4	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
Bd3-1	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
Bd21	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
ABR6	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
Bd30-1	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
Bd2-3	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
RON2	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
Koz-3	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
Bd29-1	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
Bd1-1	GLPPELLRDV MKRLEEGESTWPSRKDVVACAACV CRAWREICKDIVQSPEFCGKLTFPVSL	120
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Bd21-3	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
Tek-4	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
Bd3-1	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
Bd21	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
ABR6	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
Bd30-1	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
Bd2-3	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
RON2	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
Koz-3	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
Bd29-1	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
Bd1-1	KQPGPRDGLIQCFIKRDKSTLTYYLYLCLSPAVLSENGKFLLAAKRNRR TAYTEYVISVD	180
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Bd21-3	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	227
Tek-4	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	240
Bd3-1	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	240
Bd21	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	240
ABR6	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	240
Bd30-1	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	240
Bd2-3	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	240
RON2	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	240
Koz-3	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	240
Bd29-1	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	240
Bd1-1	SKNISRSSNGYVGKMRSNFLGTFKIVYDTQAPYNAGSLVSCQRASRR ISSSRVSPKVPTG	240
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Bd21-3	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFEESFRSTN	287
Tek-4	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFE-----	294
Bd3-1	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFEESFRSTN	300
Bd21	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFEESFRSTN	300
ABR6	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFEESFRSTN	300
Bd30-1	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFEESFRSTN	300
Bd2-3	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFEESFRSTN	300
RON2	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFEESFRSTN	300
Koz-3	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFEESFRSTN	300
Bd29-1	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFEESFRSTN	300
Bd1-1	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPASAVDPEGVVPQPKQLLPGPFEESFRSTN	300
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Bd21-3	TSSRFSVTDFSSSRFSEISGAVQQDEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	347
Tek-4	----FSVTDFSSSRFSEISGAVQQHEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	350
Bd3-1	TSSRFSVTDFSSSRFSEISGAVQQDEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	360
Bd21	TSSRFSVTDFSSSRFSEISGAVQQDEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	360
ABR6	TSSRFSVTDFSSSRFSEISGAVQQDEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	360
Bd30-1	TSSRFSVTDFSSSRFSEISGAVQQDEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	360
Bd2-3	TSSRFSVTDFSSSRFSEISGAVQQDEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	360
RON2	TSSRFSVTDFSSSRFSEISGAVQQDEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	360
Koz-3	TSSRFSVTDFSSSRFSEISGAVQQDEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	360
Bd29-1	TSSRFSVTDFSSSRFSEISGAVQQHEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	360
Bd1-1	TSSRFSVTDFSSSRFSEISGAVQQHEEDGEAKEKPLVLRNKVPRWHEQLQCWCLNFRGRV	360
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Bd21-3	TVASVKNFQLTSALQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	407
Tek-4	TVASVKNFQLTSAPQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	410
Bd3-1	TVASVKNFQLTSALQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	420
Bd21	TVASVKNFQLTSALQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	420
ABR6	TVASVKNFQLTSALQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	420
Bd30-1	TVASVKNFQLTSALQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	420
Bd2-3	TVASVKNFQLTSALQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	420
RON2	TVASVKNFQLTSALQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	420
Koz-3	TVASVKNFQLTSALQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	420
Bd29-1	TVASVKNFQLTSAPQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	420
Bd1-1	TVASVKNFQLTSAPQPSVASSESSQPPQQQQTQPSSSSSSSDHEKVILQFGKVTKDMFT	420
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Bd21-3	MAYRYPLSAFQAFAICLTSFDTKLACE	434
Tek-4	MDYRYPLSAFQAFAICLTSFDTKLACE	437
Bd3-1	MDYRYPLSAFQAFAICLTSFDTKLACE	447
Bd21	MDYRYPLSAFQAFAICLTSFDTKLACE	447
ABR6	MDYRYPLSAFQAFAICLTSFDTKLACE	447
Bd30-1	MDYRYPLSAFQAFAICLTSFDTKLACE	447
Bd2-3	MDYRYPLSAFQAFAICLTSFDTKLACE	447
RON2	MDYRYPLSAFQAFAICLTSFDTKLACE	447
Koz-3	MDYRYPLSAFQAFAICLTSFDTKLACE	447
Bd29-1	MDYRYPLSAFQAFAICLTSFDTKLACE	447
Bd1-1	MDYRYPLSAFQAFAICLTSFDTKLACE	447
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## BdTLp3

Koz-3	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
Bd21-3	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
Bd2-3	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
Bd3-1	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
Bd21	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
Bd30-1	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
Tek-4	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
ABR6	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
Bd29-1	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
Bd1-1	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
RON2	MSFRRMVDRFRESFGNLSRRNFEVKISSIPGLSGHLRGKSLESSSELHDSLVIQQSSWA	60
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Koz-3	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
Bd21-3	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
Bd2-3	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
Bd3-1	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
Bd21	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
Bd30-1	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
Tek-4	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
ABR6	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
Bd29-1	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
Bd1-1	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
RON2	SLPPELLRDVMKRLEEDDSNWPSRKDVVACASVCTTWREMCKDIVRNPEFCGKLTFFVSL	120
*****		
Koz-3	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTT-----	171
Bd21-3	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTT-----	171
Bd2-3	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTTYTDYAISMD	180
Bd3-1	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTTYTDYAISMD	180
Bd21	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTTYTDYAISMD	180
Bd30-1	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTTYTDYAISMD	180
Tek-4	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTTYTDYAISMD	180
ABR6	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTTYTDYAISMD	180
Bd29-1	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTTYTDYAISMD	180
Bd1-1	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTTYTDYAISMD	180
RON2	KQPGPRDGLIQCFIKRDKSKLTYHLYLSLTSAVLDDNGKFLLSAKRSRRTTYTDYAISMD	180
*****		
Koz-3	-----SNFLGPKFIIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	215
Bd21-3	-----SNFLGPKFIIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	215
Bd2-3	SKNISRSSSGYIGKLRNFLGTFKFIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	240
Bd3-1	SKNISRSSSGYIGKLRNFLGTFKFIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	240
Bd21	SKNISRSSSGYIGKLRNFLGTFKFIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	240
Bd30-1	SKNISRSSSGYIGKLRNFLGTFKFIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	240
Tek-4	SKNISRSSSGYIGKLRNFLGTFKFIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	240
ABR6	SKNISRSSSGYIGKLRNFLGTFKFIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	240
Bd29-1	SKNISRSSSGYIGKLRNFLGTFKFIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	240
Bd1-1	SKNISRSSSGYIGKLRNFLGTFKFIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	240
RON2	SKNISRSSSGYIGKLRNFLGTFKFIYDTQPPYNAGKLCQSQRASRRFSSRKVSPKVPTG	240
; **** *		



Koz-3	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	275
Bd21-3	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	275
Bd2-3	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	300
Bd3-1	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	300
Bd21	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	300
Bd30-1	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	300
Tek-4	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	300
ABR6	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	300
Bd29-1	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	300
Bd1-1	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	300
RON2	SYPIAQVNYELNVLGTRGPRRMQCTMHSIPSAVDPDGTVPQGPKELLPRLFDESFRITTT	300

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Koz-3	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKVPRWHEQLQCWCLNF	335
Bd21-3	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKVPRWHEQLQCWCLNF	335
Bd2-3	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKVPRWHEQLQCWCLNF	360
Bd3-1	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKVPRWHEQLQCWCLNF	360
Bd21	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKVPRWHEQLQCWCLNF	360
Bd30-1	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKAPRWHEQLQCWCLNF	360
Tek-4	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKAPRWHEQLQCWCLNF	360
ABR6	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKAPRWHEQLQCWCLNF	360
Bd29-1	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKAPRWHEQLQCWCLNF	360
Bd1-1	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKAPRWHEQLQCWCLNF	360
RON2	SSFSKYSVADHSTDFGSSRFSEYGGGALQDGAADKETPLVLRNKAPRWHEQLQCWCLNF	360

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Koz-3	RGRVTVASVKNFQLIAGAPLPAPVASSEPSQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	395
Bd21-3	RGRVTVASVKNFQLIAGAPLPAPVASSEPSQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	395
Bd2-3	RGRVTVASVKNFQLIAGAPLPAPVASSEPSQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	420
Bd3-1	RGRVTVASVKNFQLIAGAPLPAPVASSEPPQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	420
Bd21	RGRVTVASVKNFQLIAGAPLPAPVASSEPSQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	420
Bd30-1	RGRVTVASVKNFQLIAGAPPPAPVASSEPPQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	420
Tek-4	RGRVTVASVKNFQLIAGAPPPAPVASSEPSQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	420
ABR6	RGRVTVASVKNFQLIAGAPPPAPVASSEPSQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	420
Bd29-1	RGRVTVASVKNFQLIAGAPPPAPVASSEPSQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	420
Bd1-1	RGRVTVASVKNFQLIAGAPPPAPVASSEPSQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	420
RON2	RGRVTVASVKNFQLIAGAPPPAPVASSEPSQPAPAQQPAQPQSSSSSSSSHDTVLLQFG	420

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Koz-3	KVSKDTFTMDYRYPLSAFQAFAICLTSFDTKLACE	430
Bd21-3	KVSKDTFTMDYRYPLSAFPALAICLTSFDTKLACE	430
Bd2-3	KVSKDTFTMDYRYPLSAFQAFAICLTSFDTKLACE	455
Bd3-1	KVSKDTFTMDYRYPLSAFQAFAICLTSFDTKLACE	455
Bd21	KVSKDTFTMDYRYPLSAFQAFAICLTSFDTKLACE	455
Bd30-1	KVSKDTFTMDYRYPLSAFQAFAICLTSFDTKLACE	455
Tek-4	KVSKDTFTMDYRYPLSAFQAFAICLTSFDTKLACE	455
ABR6	KVSKDTFTMDYRYPLSAFQAFAICLTSFDTKLACE	455
Bd29-1	KVSKDTFTMDYRYPLSAFQAFAICLTSFDTKLACE	455
Bd1-1	KVSKDTFTMDYRYPLSAFQAFAICLTSFDTKLACE	455
RON2	KVSKDTFTMDYRYPLSAFQAFAICLTSFDTKLACE	455

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## BdTLp4

Bd21-3	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
Tek-4	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
Bd29-1	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
Bd1-1	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
Bd3-1	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
Bd21	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
ABR6	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
Bd30-1	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
Bd2-3	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
RON2	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
Koz-3	MSFRSIVRDVRDSFGSLSRRGFEVRF LGHRRGKSHSAVHELHDPAPVIQSSCWANLPPEL	60
*****		
Bd21-3	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
Tek-4	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
Bd29-1	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
Bd1-1	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
Bd3-1	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
Bd21	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
ABR6	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
Bd30-1	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
Bd2-3	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
RON2	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
Koz-3	LRDVIERLEASEATWPSRKNVVACAACVCR TWRECKEIVKNPEFCGKITFPVSLKQPGPR	120
*****		
Bd21-3	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
Tek-4	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
Bd29-1	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
Bd1-1	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
Bd3-1	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
Bd21	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
ABR6	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
Bd30-1	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
Bd2-3	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
RON2	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
Koz-3	DGTIQCFIKRDKSTQTYLYLCLSSAVLVESGKFL LLAKRYSRPTCTEYTFMNA DNTSR	180
*****		
Bd21-3	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
Tek-4	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
Bd29-1	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
Bd1-1	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
Bd3-1	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
Bd21	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
ABR6	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
Bd30-1	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
Bd2-3	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
RON2	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
Koz-3	SSNMYIGKLRSNLLGTFVIYDTPPCNIPSVSQPGKTSRRFYSRKVSLKAPSSTYSIAQ	240
*****		



Bd21-3	VSYELNVLGTRGPRRMNCVMHPIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300
Tek-4	VSYELNVLGTRGPRRMNCVMHSIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300
Bd29-1	VSYELNVLGTRGPRRMNCVMHSIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300
Bd1-1	VSYELNVLGTRGPRRMNCVMHSIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300
Bd3-1	VSYELNVLGTRGPRRMNCVMHSIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300
Bd21	VSYELNVLGTRGPRRMNCVMHSIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300
ABR6	VSYELNVLGTRGPRRMNCVMHSIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300
Bd30-1	VSYELNVLGTRGPRRMNCVMHSIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300
Bd2-3	VSYELNVLGTRGPRRMNCVMHSIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300
RON2	VSYELNVLGTRGPRRMNCVMHSIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300
Koz-3	VSYELNVLGTRGPRRMNCVMHSIPASSLEAGGTVPCQPDVLARSIDESFGSISFSKSSI	300

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Bd21-3	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILHNKAPRWHEQLQCWCLNFKG	360
Tek-4	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILHNKAPRWHEQLQCWCLNFKG	360
Bd29-1	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILHNKAPRWHEQLQCWCLNFKG	360
Bd1-1	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILRNKAPRWHEQLQCWCLNFKG	360
Bd3-1	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILRNKAPRWHEQLQCWCLNFKG	360
Bd21	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILRNKAPRWHEQLQCWCLNFKG	360
ABR6	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILRNKAPRWHEQLQCWCLNFKG	360
Bd30-1	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILRNKAPRWHEQLQCWCLNFKG	360
Bd2-3	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILRNKAPRWHEQLQCWCLNFKG	360
RON2	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILRNKAPRWHEQLQCWCLNFKG	360
Koz-3	RDRSIRFSSTRFSDISVGCSRNGGQTLGDNNESKECPLILRNKAPRWHEQLQCWCLNFKG	360

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Bd21-3	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420
Tek-4	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420
Bd29-1	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420
Bd1-1	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420
Bd3-1	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420
Bd21	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420
ABR6	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420
Bd30-1	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420
Bd2-3	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420
RON2	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420
Koz-3	RVTVASVKNFQLVASTQAAAAAPAPSPPAPTPPSEHDKVILQFGKVAKDMFTMDYRYPLS	420

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Bd21-3	AFQAFACLSSFDTKLACE	439
Tek-4	AFQAFACLSSFDTKLACE	439
Bd29-1	AFQAFACLSSFDTKLACE	439
Bd1-1	AFQAFACLSSFDTKLACE	439
Bd3-1	AFQAFACLSSFDTKLACE	439
Bd21	AFQAFACLSSFDTKLACE	439
ABR6	AFQAFACLSSFDTKLACE	439
Bd30-1	AFQAFACLSSFDTKLACE	439
Bd2-3	AFQAFACLSSFDTKLACE	439
RON2	AFQAFACLSSFDTKLACE	439
Koz-3	AFQAFACLSSFDTKLACE	439

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## BdTLp5

Bd3-1	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
Koz-3	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
Bd21	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
Tek-4	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
ABR6	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
Bd30-1	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
Bd29-1	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
Bd1-1	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
Bd2-3	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
RON2	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
Bd21-3	MSFRSIARDVRDGFGLSRRSFVETIASLYGLTGYHKGKAQSSLDLHDPPIIQESRWA	60
*****		
Bd3-1	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
Koz-3	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
Bd21	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
Tek-4	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
ABR6	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
Bd30-1	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
Bd29-1	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
Bd1-1	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
Bd2-3	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
RON2	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
Bd21-3	SLPPELLRDVIRRLSEDESTWPSRKHVVCFAAVCKTWREMCREIVLSPEFCGKLTFRVSL	120
*****		
Bd3-1	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
Koz-3	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
Bd21	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
Tek-4	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
ABR6	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
Bd30-1	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
Bd29-1	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
Bd1-1	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
Bd2-3	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
RON2	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
Bd21-3	KQPGPREGMIQCFIKRNKSKSTYQLYLCLSNVTAETGKFLLSAKNRKTSCTEYAISMD	180
*****		
Bd3-1	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
Koz-3	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
Bd21	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
Tek-4	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
ABR6	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
Bd30-1	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
Bd29-1	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
Bd1-1	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
Bd2-3	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
RON2	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
Bd21-3	TGNTSRSNRTYIGKLRNFLAGTKFLIYDTQPPYNGAVVPPVGRTSRRFNSTKVSPKVPAG	240
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Bd3-1	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300
Koz-3	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300
Bd21	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300
Tek-4	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300
ABR6	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300
Bd30-1	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300
Bd29-1	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300
Bd1-1	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300
Bd2-3	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300
RON2	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300
Bd21-3	SYNIAQVTYELNVLGTRGPRRMRCIMHSIPASSVEPGGIVPGQPEQIVPRALGDSFRSIS	300

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Bd3-1	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVDGDGDCEVKDRPLVLRNKPPRWHE	360
Koz-3	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVDGDGDCEVKDRPLVLRNKPPRWHE	360
Bd21	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVDGDGDCEVKDRPLVLRNKPPRWHE	360
Tek-4	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVDGDGDCEVKDRPLVLRNKPPRWHE	360
ABR6	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVDGDGDCEVKDRPLVLRNKPPRWHE	360
Bd30-1	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVDGDGDCEVKDRPLVLRNKPPRWHE	360
Bd29-1	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVDGDGDCEVKDRPLVLRNKPPRWHE	360
Bd1-1	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVDGDGDCEVKDRPLVLRNKPPRWHE	360
Bd2-3	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVDGDGDCEVKDRPLVLRNKPPRWHE	360
RON2	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVDGDGDCEVKDRPLVLRNKPPRWHE	360
Bd21-3	SLSQSFRSSTTFSKSIMDQSMDFNSARFSEINGGIVEGDGDCEVKDRPLVLRNKPPRWHE	360

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Bd3-1	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420
Koz-3	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420
Bd21	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420
Tek-4	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420
ABR6	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420
Bd30-1	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420
Bd29-1	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420
Bd1-1	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420
Bd2-3	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420
RON2	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420
Bd21-3	QLQCWCLNFRGRVTIASVKNFQLIAASNPPAGAPTPSQPGVPDPKVILQFGKVARDMF	420

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Bd3-1	TMDYRYPLSAFQAFACLSSFDTKLACE	448
Koz-3	TMDYRYPLSAFQAFACLSSFDTKLACE	448
Bd21	TMDYRYPLSAFQAFACLSSFDTKLACE	448
Tek-4	TMDYRYPLSAFQAFACLSSFDTKLACE	448
ABR6	TMDYRYPLSAFQAFACLSSFDTKLACE	448
Bd30-1	TMDYRYPLSAFQAFACLSSFDTKLACE	448
Bd29-1	TMDYRYPLSAFQAFACLSSFDTKLACE	448
Bd1-1	TMDYRYPLSAFQAFACLSSFDTKLACE	448
Bd2-3	TMDYRYPLSAFQAFACLSSFDTKLACE	448
RON2	TMDYRYPLSAFQAFACLSSFDTKLACE	448
Bd21-3	TMDYRYPLSAFQAFACLSSFDTKLACE	448

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## BdTLp6

Bd21	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
Bd30-1	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
RON2	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
Bd21-3	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
ABR6	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
Bd3-1	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
Bd1-1	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
Bd2-3	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
Bd29-1	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
Tek-4	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
Koz-3	MSFRSIVRDVKDGFGLSQRRFETRLLGHCGRGKSHGAVHELHDPVPVIQSSCWANLPPEL	60
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Bd21	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGKLTFPVSLKQPGPR	120
Bd30-1	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGKLTFPVSLKQPGPR	120
RON2	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGKLTFPVSLKQPGPR	120
Bd21-3	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGKLTFPVSLKQPGPR	120
ABR6	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGKLTFPVSLKQPGPR	120
Bd3-1	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGKLTFPVSLKQPGPR	120
Bd1-1	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGKLTFPVSLKQPGPR	120
Bd2-3	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGKLTFPVSLKQPGPR	120
Bd29-1	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGMLTFPVSLKQPGPR	120
Tek-4	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGKLTFPVSLKQPGPR	120
Koz-3	LRDVIERLEASEATWPCRRNVVACAAVCKTWREMCKEIVKNPEECGKLTFPVSLKQPGPR	120
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Bd21	HGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
Bd30-1	DGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
RON2	DGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
Bd21-3	DGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
ABR6	DGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
Bd3-1	DGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
Bd1-1	DGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
Bd2-3	DGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
Bd29-1	DGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
Tek-4	DGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
Koz-3	DGIIQCFIKRDRSTQTYLYLSLSSAVLVENGKFLLSAKRICRATWTEYIISMNANSISS	180
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Bd21	SSNTYLGKMRSNVIGTKFIMYDTQPPYNSSTVSHSGKPSQRFYSKNGSTKVPCSLYSIAQ	240
Bd30-1	SSNTYLGKMRSNVIGTKFIMYDTQPPYNSSTVSHSGKPSQRFYSKNGPTKVPCSLYSIAQ	240
RON2	SSNTYLGKMRSNVIGTKFIMYDTQPPYNSSTVSHSGKPSQRFYSKNGPTKVPCSLYSIAQ	240
Bd21-3	SSNTYLGKMRSNVIGTKFIMYDPQPPYNSSTVSHSGKPSQRFYSKNGSTKVPCSLYSIAQ	240
ABR6	SSNTYLGKMRSNVIGTKFIMYDTQPPYNSSTVSHSGKPSQRFYSKNGSTKVPCSLYSIAQ	240
Bd3-1	SSNTYLGKMRSNVIGTKFIMYDTQPPYNSSTVSHSGKPSQRFYSKNGSTKVPCSLYSIAQ	240
Bd1-1	SSNTYLGKMRSNVIGTKFIMYDTQPPYNSSTVSHSGKPSQRFYSKNGSTKVPCSLYSIAQ	240
Bd2-3	SSNTYLGKMRSNVIGTKFIMYDTQPPYNSSTVSHSGKPSQRFYSKNGSTKVPCSLYSIAQ	240
Bd29-1	SSNTYLGKMRSNVIGTKFIMYDTQPPYNSSTVSHSGKPSQRFYSKNGSTKVPCSLYSIAQ	240
Tek-4	SSNTYLGKMRSNVIGTKFIMYDTQPPYNSSTVSHSGKPSQRFYSKNGSTKVPCSLYSIAQ	240
Koz-3	SSNTYLGKMRSNVIGTKFIMYDTQPPYNSSTVSHSGKPSQRFYSKNGSTKVPCSLYSIAQ	240
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Bd21	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300
Bd30-1	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300
RON2	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300
Bd21-3	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300
ABR6	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300
Bd3-1	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300
Bd1-1	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300
Bd2-3	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300
Bd29-1	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300
Tek-4	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300
Koz-3	VSYKLNVLGTRGPRRMHCVMSHIPASSLEAGGTVPQMDILARRSLDESFSRISISKSS	300

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Bd21	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360
Bd30-1	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360
RON2	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360
Bd21-3	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360
ABR6	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360
Bd3-1	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360
Bd1-1	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360
Bd2-3	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360
Bd29-1	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360
Tek-4	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360
Koz-3	IMDHSVHFSSARFSDSSIRGGPGISGQSLSDQCKDVPLILRNKAPRWHEQLQCWCLNF	360

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Bd21	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420
Bd30-1	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420
RON2	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420
Bd21-3	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420
ABR6	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420
Bd3-1	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420
Bd1-1	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420
Bd2-3	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420
Bd29-1	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420
Tek-4	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420
Koz-3	RGRVTVASVKNFQLTAAAAIPAAGALTPHPAEPAPPPPEHDKVILQFGKVAKDMFTMD	420

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Bd21	YRYPLSAFQAF AISLSCFN TKWGCE	445
Bd30-1	YRYPLSAFQAF AISLSCFN TKWGCE	445
RON2	YRYPLSAFQAF AISLSCFN TKWGCE	445
Bd21-3	YCYPLPAFQAF AISLSCFN TKWGCE	445
ABR6	YRYPLSAFQAF AISLSCFN TKWGCE	445
Bd3-1	YCYPLSAFQAF AISLSCFN TKWGCE	445
Bd1-1	YCYPLSAFQAF AISLSCFN TKWGCE	445
Bd2-3	YCYPLSAFQAF AISLSCFN TKWGCE	445
Bd29-1	YCYPLSAFQAF AISLSCFN TKWGCE	445
Tek-4	YCYPLSAFQAF AISLSCFN TKWGCE	445
Koz-3	YCYPLSAFQAF AISLSCFN TKWGCE	445

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## BdTLp7

Bd21-3	MSWRSMIREMKGEVGAMSLRGLSRPSSGRDRRVAPDEAARQSSCWAQLPPELLREVLGG	60
Koz-3	MSLRSMIREMKGEVGAMSLRGLSRPSSGRDRRVGPGEAARQSSCWAQLPPELLREVLGR	60
Bd1-1	MSLRSMIREMKGEVGAMSLRGLSRPSSGRDRRVAPDEAARQSSCWAQLPPELLREGLGG	60
Bd29-1	MSLRSMIREMKGEVGAMSLRGLSRPSSGRDRRVAPDEAARQSSCWAQLPPELLREVLGR	60
Bd30-1	MSLRSMIREMKGEVGAMSLRGLSRPSSGRDRRVAPDEAARQSSCWAQLPPELLREVLGR	60
Tek-4	-----	0
Bd3-1	-----	0
Bd21	MSLRSMIREMKGEVGAMSLRGLSRPSSGRDRRVAPDEAARQSSCWAQLPPELLREVLGR	60
ABR6	MSLRSMIREMKGEVGAMSLRGLSRPSSGRDRRVAPDEAARQSSCWAQLPPELLREVLGR	60
Bd2-3	MSLRSMIREMKGEVGAMSLRGLSRPSSGRDRRVAPDEAARQSSCWAQLPPELLREVLGR	60
RON2	MSLRSMIREMKGEVGAMSLRGLSRPSSGRDRRVAPDEAARQSSCWAQLPPELLREVLGR	60
Bd21-3	VEESEPRWPRRRDVACAGVCQSWRGAVREIVRVPEESGKLTFPISLKQPGPRDAPIKCF	120
Koz-3	VEESEPRWPRRRDVACAGVCQSWRGAVREIVRVPEESGKLTFPISLKQPGPRDAPIKCF	120
Bd1-1	VEESEPRGPRRRDVACAGVCQSWRGAVTEIVRVPEESGKLTFPISLKQPGPRDAPIKCF	120
Bd29-1	VEESEPRWPRRRDVACAGVCQSWRGAVTEIVRVPEESGKLTFPISLKQPGPRDAPIKCF	120
Bd30-1	VEESEPRWPRRRDVACAGVCQSWRGAVREIVRVPEESGKLTFPISLKQPGPRDAPIKCF	120
Tek-4	-----	0
Bd3-1	-----	0
Bd21	VEESEPRWPRRRDVACAGVCQSWRGAVREIVRVPEESGKLTFPISLKQPGPRDAPIKCF	120
ABR6	VEESEPRWPRRRDVACAGVCQSWRGAVREIVRVPEESGKLTFPISLKQPGPRDAPIKCF	120
Bd2-3	VEESEPRWPRRRDVACAGVCQSWRGAVREIVRVPEESGKLTFPISLKQPGPRDAPIKCF	120
RON2	VEESEPRWPRRRDVACAGVCQSWRGAVREIVRVPEESGKLTFPISLKQPGPRDAPIKCF	120
Bd21-3	IRNRATHTYCLYI---GLTNALADDGKFLLAARKYHRPTCTEYLISLDRDMSKGSQTC	177
Koz-3	IRNRATHTYCLYI---GLTNALADDGKFLLAARKYHRPTCTEYLISLDRDMSKGSQTC	177
Bd1-1	IRNRATHTYCLYI---GLTNALADDGKFLLAARKYHRPTCTEYLISLDRDMSKGSQTC	177
Bd29-1	IRNRATHTYCLYI---GLTNALADDGKFLLAARKYHRPTCTEYLISLDRDMSKGSQTC	177
Bd30-1	IRNRATHTYCLYI---GLTDALADDGKFLLAARKYHRPTCTEYLILLDRDMSKGSQTC	177
Tek-4	-----MCLFYTSNVLFAALADDGKFLLAARKYHRPTCTEYLISLDRDMSKGSQTC	51
Bd3-1	-----MSKGSQTC	8
Bd21	IRNRATHTYCLYI---GLTNALADDGKFLLAARKYHRPTCTEYLISLDRDMSKGSQTC	177
ABR6	IRNRATHTYCLYI---GLTNALADDGKFLLAARKYHRPTCTEYLISLDRDMSKGSQTC	177
Bd2-3	IRNRATHTYCLYI---GLTNALADDGKFLLAARKYHRPTCTEYLISLDRDMSKGSQTC	177
RON2	IRNRATHTYCLYI---GLTNALADDGKFLLAARKYHRPTCTEYLISLDRDMSKGSQTC	177
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Bd21-3	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	237
Koz-3	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	237
Bd1-1	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	237
Bd29-1	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	237
Bd30-1	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	237
Tek-4	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	111
Bd3-1	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	68
Bd21	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	237
ABR6	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	237
Bd2-3	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	237
RON2	IGKLRSNFLRTKFTVYDAHPPHSGAVVSKRWSSGNYPVSHIYYDVNVLGSRGPRRMRCVM	237
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Bd21-3	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	297
Koz-3	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	297
Bd1-1	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	297
Bd29-1	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	297
Bd30-1	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	297
Tek-4	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	171
Bd3-1	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	128
Bd21	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	297
ABR6	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	297
Bd2-3	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	297
RON2	DSIPVSAIKGGTAPTQTGFPSSSHDSFASIPFFKSKSSRRDSSTTQLSTQEESKLVLKNK	297

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Bd21-3	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	357
Koz-3	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	357
Bd1-1	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	357
Bd29-1	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	357
Bd30-1	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	357
Tek-4	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	231
Bd3-1	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	188
Bd21	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	357
ABR6	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	357
Bd2-3	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	357
RON2	SPRWQEHLCWCCLNFHGRVTVASVKNFQLVPSDESAPTNHELDDATLQFGKIGKDMFSMD	357

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Bd21-3	YRYPLSAFQAFAICLSSFDTKIACE	382
Koz-3	YRYPLSAFQAFAICLSSFDTKIACE	382
Bd1-1	YRYPLSAFQAFAICLSSFDTKIACE	382
Bd29-1	YRYPLSAFQAFAICLSSFDTKIACE	382
Bd30-1	YRYPLSAFQAFAICLSSFDTKIACE	382
Tek-4	YRYPLSAFQAFAICLSSFDTKIACE	256
Bd3-1	YRYPLSAFQAFAICLSSFDTKIACE	213
Bd21	YRYPLSAFQAFAICLSSFDTKIACE	382
ABR6	YRYPLSAFQAFAICLSSFDTKIACE	382
Bd2-3	YRYPLSAFQAFAICLSSFDTKIACE	382
RON2	YRYPLSAFQAFAICLSSFDTKIACE	382

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## BdTLP8

Bd3-1	-----RGGSRHSWPGLWPEPQSQPQRQGG	24
Bd1-1	MSLKSIIVRELKEMRDGIGSMSRRAGGSDGRVGPGHSGRGGARHSWPGLGPEPQSQPQRGR	60
Koz-3	MSLKSIIVRELKEMRDGIGSMSRRAGGSDGRVGHGSPRGGARHSWPGLGREPQSQPQRQGG	60
Bd30-1	MSLKSIIVRELKEMRDGIGSMSRRAGGSDGRGGHGHSGRGGSRHSWPGLWREPQSQPQRQGG	60
Tek-4	MSLKSIIVRELKEMRDGIGSMSRRAGGSDGRVGHGHSGRGGSRHSWPGLWPEPQSQPQRQGG	60
Bd29-1	MSLKSIIVRELKEMRDGIGSMSRRAGGSDGRVGHGHSGRGGSRHSWPGLWPEPQSQPQRQGG	60
Bd21-3	MSLKSIIVRELKEMRDGIGSMSRRAGGSDGRVGHGHSGRGGSRHSWPGLWPEPQSQPQRQGG	60
Bd21	MSLKSIIVRELKEMRDGIGSMSRRAGGSDGRVGHGHSGRGGSRHSWPGLWPEPQSQPQRQGG	60
ABR6	MSLKSIIVRELKEMRDGIGSMSRRAGGSDGRVGHGHSGRGGSRHSWPGLWPEPQSQPQRQGG	60
RON2	MSLKSIIVRELKEMRDGIGSMSRRAGGSDGRVGHGHSGRGGSRHSWPGLWPEPQSQPQRQGG	60
Bd2-3	MSLKSIIVRELKEMRDGIGSMSRRAGGSDGRVGPGHSGRGGSRHSWPGLWPEPQSQPQRQGG ***;***** *****; ;	60
Bd3-1	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRPGGGGAACRSWREVTKDVKVKTLEEC	84
Bd1-1	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRQVVACAACRSWREVTKDVKVKTLEEC	120
Koz-3	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRQVVACAACRSWREVTKDVKVKTLEEC	120
Bd30-1	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRQGVACAACRSWREVTKDVKVKTLEEC	120
Tek-4	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRQVVACAACRSWREVTKDVKVKTLEEC	120
Bd29-1	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRQVVACAACRSWREVTKDVKVKTLEEC	120
Bd21-3	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRQVVACAACRSWREVTKDVKVKTLEEC	120
Bd21	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRQVVACAACRSWREVTKDVKVKTLEEC	120
ABR6	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRQVVACAACRSWREVTKDVKVKTLEEC	120
RON2	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRQVVACAACRSWREVTKDVKVKTLEEC	120
Bd2-3	EPQQQGGQWANLPPELLLDVIQRVEASEAVWPSRRQVVACAACRSWREVTKDVKVKTLEEC ***** , *****	120
Bd3-1	GRITFPISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHVENDKLLLAARKIRRAT	144
Bd1-1	GRITFPISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHGENDKLLLAARKIRRAT	180
Koz-3	GRITFPISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHVENDKLLLAARKIRRAT	180
Bd30-1	GRVTFPISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHVENDKLLLAARKIRRAT	180
Tek-4	GRITFPISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHGENDKLLLAARKIRRAT	180
Bd29-1	GRITFPISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHGENDKLLLAARKIRRAT	180
Bd21-3	GRVTLFISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHVENDKLLLAARKIRRAT	180
Bd21	GRITFPISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHVENDKLLLAARKIRRAT	180
ABR6	GRITFPISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHVENDKLLLAARKIRRAT	180
RON2	GRITFPISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHVENDKLLLAARKIRRAT	180
Bd2-3	GRITFPISLKQPGPRDHPVQCFVRRDRATSTYLLYLGLSPSLHVENDKLLLAARKIRRAT **;***** *****	180
Bd3-1	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV	204
Bd1-1	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV	240
Koz-3	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV	240
Bd30-1	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV	240
Tek-4	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV	240
Bd29-1	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV	240
Bd21-3	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV	240
Bd21	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV	240
ABR6	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV	240
RON2	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV	240
Bd2-3	RTSFVISLISDDFSHSSSTYVGKLPNFLGKFTIIDSQPPCDAAVLPNNRPSKRHSKQV *****	240



Bd3-1	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	264
Bd1-1	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	300
Koz-3	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	300
Bd30-1	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	300
Tek-4	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	300
Bd29-1	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	300
Bd21-3	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	300
Bd21	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	300
ABR6	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	300
RON2	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	300
Bd2-3	SPRLPLGNYNVATVSYELTVLRNRGPRRMQCTMHSIPALCIQEGGKAPTPTGIIHSLDDQ	300
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Bd3-1	VSTLSTSGKEPNVEFSSTSLSTDLGGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	324
Bd1-1	VSTLSTSGKEPNVEFSSTSLSADLSGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	360
Koz-3	VSTLSTSGKEPNVEFSSTSLSTDLGGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	360
Bd30-1	VSTLSTSGKEPNVEFSSTSLSTDLGGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	360
Tek-4	VSTLSTSGKEPNVEFSSTSLSADLSGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	360
Bd29-1	VSTLSTSGKEPNVEFSSTSLSADLSGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	360
Bd21-3	VSTLSTSGKEPNVEFSSTSLSTDLGGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	360
Bd21	VSTLSTSGKEPNVEFSSTSLSTDLGGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	360
ABR6	VSTLSTSGKEPNVEFSSTSLSTDLGGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	360
RON2	VSTLSTSGKEPNVEFSSTSLSTDLGGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	360
Bd2-3	VSTLSTSGKEPNVEFSSTSLSTDLGGQICTSEAPMLLKNKAPRWHEQLQCWCLNFRGRV	360
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Bd3-1	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	384
Bd1-1	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	420
Koz-3	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	420
Bd30-1	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	420
Tek-4	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	420
Bd29-1	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	420
Bd21-3	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	420
Bd21	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	420
ABR6	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	420
RON2	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	420
Bd2-3	TVASVKNFQLVASVDPSLGVPAAEQEKVILQFGKIGKDIFTMDYRYPLSAFQAFACLTS	420
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Bd3-1	FDTKPACE	392
Bd1-1	FDTKPACE	428
Koz-3	FDTKPACE	428
Bd30-1	FDTKPACE	428
Tek-4	FDTKPACE	428
Bd29-1	FDTKPACE	428
Bd21-3	FDTKPACE	428
Bd21	FDTKPACE	428
ABR6	FDTKPACE	428
RON2	FDTKPACE	428
Bd2-3	FDTKPACE	428
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## BdTLp9

Bd21-3	-----	0
Bd30-1	MPREKPAAERGEVPEGGGEEKAEEGGQAE----AEEQEERWARLLPELLSEVVRVREAS	56
Koz-3	MPREKPAAERGEVPEVVEVEEKAEEGGQAE----AEEQEERWARLLPELLSEVVRVREAS	56
Bd1-1	MPREKPAAERGEVPEGGEGEEKAEEGGQAEPEAAEEQEERWARLLPELLSEGGRRVREAS	60
RON2	MPREKPAAERGEVPEVVEVEEKAEEGGQAE----AEEQEERWARLLPELLSEVVRVREAS	56
Bd2-3	MPREKPAAERGEVPEVVEVEEKAEEGGQAE----AEEQEERGGRLLPELLSEVVRVREAS	56
Bd29-1	MPREKPAAERGEVPEVVEVEEKAEEGGQAEPEAAEEQEERWARLLPELLSEVVRVREAS	60
ABR6	MPREKPAAERGEVPEVVEVEEKAEEGGQAE----AEEQEERWARLLPELLSEVVRVREAS	56
Bd21	MPREKPAAERGEVPEVVEVEEKAEEGGQAE----AEEQEERWARLLPELLSEVVRVREAS	56
Bd3-1	-----	0
Tek-4	-----	0
Bd21-3	-----MQCFIKR	7
Bd30-1	GGERWPARKDVVSCACVCRRGRDAAVAVVRPPAVSGKITFPSSLKQPGTREFPMQCFIKR	116
Koz-3	GGERWPARKDVVSCACVCRRGRDAAVAVVRPPAVSGKITFPSSLKQPGTREFPMQCFIKR	116
Bd1-1	GGERWPARKDVVSCACVCRRGRDAAVAVVRPPAVSGKITFPSSLKQPGTREFPMQCFIKR	120
RON2	GGERWPARKDVVSCACVCRRWRDAAVAVVRPPAVSGKITFPSSLKQPGTREFPMQCFIKR	116
Bd2-3	GGERWPARKDVVSCACVCRRWRDAAVAVVRPPAVSGKITFPSSLKQPGTREFPMQCFIKR	116
Bd29-1	GGERWPARKDVVSCACVCRRWRDAAVAVVRPPAVSGKITFPSSLKQPGTREFPMQCFIKR	120
ABR6	GGERWPARKDVVSCACVCRRWRDAAVAVVRPPAVSGKITFPSSLKQPGTREFPMQCFIKR	116
Bd21	GGERWPARKDVVSCACVCRRWRDAAVAVVRPPAVSGKITFPSSLKQPGTREFPMQCFIKR	116
Bd3-1	-----MDVVSCACVCRRWRDAAGA AVRPPAGSGKITFPSSLKQPGTREFPMQCFIKR	52
Tek-4	-----MQCFIKR	7
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Bd21-3	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTHEYIISLDADDLSQGSNAYMGKLRS	67
Bd30-1	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTHEYIISLDADDLSQGSNAYMGKLRS	176
Koz-3	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRCGPHTHEYIISLDADDLSQGSNAYMGKLRS	176
Bd1-1	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTHEYIISLDADDLSQGSNAYMGKLRS	180
RON2	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTHEYIISLDADDLSQGSNAYMGKLRS	176
Bd2-3	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTHEYIISLDADDLSQGSNAYMGKLRS	176
Bd29-1	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTHEYIISLDADDLSQGSNAYMGKLRS	180
ABR6	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTHEYIISLDADDLSQGSNAYMGKLRS	176
Bd21	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTHEYIISLDADDLSQGSNAYMGKLRS	176
Bd3-1	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTHEYIISLDADDLSQGSNAYMGKLRS	112
Tek-4	NKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTHEYIISLDADDLSQGSNAYMGKLRS	67
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Bd21-3	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEVGQLSYKYNLLKSRG	127
Bd30-1	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEVGQLSYKYNLLKSRG	236
Koz-3	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEVGQLSYKYNLLKSRG	236
Bd1-1	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEGGQLSYKYNLLKSRG	240
RON2	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEVGQLSYKYNLLKSRG	236
Bd2-3	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEVGQLSYKYNLLKSRG	236
Bd29-1	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEVGQLSYKYNLLKSRG	240
ABR6	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEVGQLSYKYNLLKSRG	236
Bd21	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEVGQLSYKYNLLKSRG	236
Bd3-1	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEVGQLSYKYNLLKSRG	172
Tek-4	DFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYEVGQLSYKYNLLKSRG	127
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Bd21-3	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	187
Bd30-1	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	296
Koz-3	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	296
Bd1-1	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	300
RON2	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	296
Bd2-3	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	296
Bd29-1	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	300
ABR6	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	296
Bd21	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	296
Bd3-1	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	232
Tek-4	PRRMYCALECPSTQETWENSLKSKFQKPMGTTVL RNKAPRWHEHLQCWCLNFHGRVTVAS	187

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Bd21-3	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQPLPAFQAF AISLSSFGTK	247
Bd30-1	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQAPSAFQAF AISLSSFGTK	356
Koz-3	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQPLSAFQAF AISLSSFGTK	356
Bd1-1	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQPLSAFQAF AISLSSFGTK	360
RON2	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQPLSAFQAF AISLSSFGTK	356
Bd2-3	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQPLSAFQAF AISLSSFGTK	356
Bd29-1	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQPLSAFQAF AISLSSFGTK	360
ABR6	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQPLSAFQAF AISLSSFGTK	356
Bd21	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQPLSAFQAF AISLSSFGTK	356
Bd3-1	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQPLSAFQAF AISLSSFGTK	292
Tek-4	VKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDI FTMDYRQPLSAFQAF AISLSSFGTK	247

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Bd21-3	LACE	251
Bd30-1	LACE	360
Koz-3	LACE	360
Bd1-1	LACE	364
RON2	LACE	360
Bd2-3	LACE	360
Bd29-1	LACE	364
ABR6	LACE	360
Bd21	LACE	360
Bd3-1	LACE	296
Tek-4	LACE	251

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## BdTLP10

Bd3-1	-----	0
Koz-3	-----M	1
Bd30-1	MDDPRAWGKRQSTEGACGWRRLPVARARPGAGGTRGRAAVAVGGGLSQGRTGEGLSFTAT	60
Bd2-3	-----M	1
Bd21-3	-----M	1
Bd21	-----M	1
ABR6	-----M	1
RON2	-----M	1
Bd1-1	-----M	1
Tek-4	-----	0
Bd29-1	-----M	1
Bd3-1	-----	0
Koz-3	ALWR-----RSYSSRLSCSSRSRSPAGAVVGGNEAKVSPEIAPEEDAGRQEEVDEERWSR	56
Bd30-1	LLYRAHSVASIHPRLACSSRSRPPAGAVVGGNEAKVSPEIAPEEDAGRQEEVDEERWSR	120
Bd2-3	ALWR-----RSSSSWLSCSSCSRSRSPAGAVVGGNEAKVSPEIAPEEDAGRQEEVDEERWSR	56
Bd21-3	ALWR-----RSYSSWLSCSSCSRSRSPAGAVVGGNEAKVSPEIAPEEDAGRQEEVDEERWSR	56
Bd21	ALWR-----RSYSSWLSCSSCSRSRSPAGAVVGGNEAKVSPEIAPEEDAGRQEEVDEERWSR	56
ABR6	ALWR-----RSYSSWLSCSSCSRSRSPAGAVVGGNEAKVSPEIAPEEDAGRQEEVDEERWSR	56
RON2	ALWR-----RSYSSWLSCSSCSRSRSPAGAVVGGNEAKVSPEIAPEEDAGRQEEVDEERWSR	56
Bd1-1	ALWR-----RSYSSRLSCSPRPPPPAGAVGGGNEAKVSPEIAPEEDAGRQEEVDEERWSR	56
Tek-4	-----	0
Bd29-1	ALWR-----RSYSSWLSCSSCSRSRSPAGAVVGGNEAKVSPEIAPEEDAGRQEEVDEERWSR	56
Bd3-1	-----MDVVSCACVCRRWRDAAGAAVRPPAGSGKITFPSSLK	37
Koz-3	LLPELLTEIVRRVDARADRWPPRRDVVACACVCRRWRDAAVSVVRPPLECGRITFPSSLK	116
Bd30-1	LLPELLTEIVRRVDARADRWPPRRDVVACACVCRRWRDAAVSVVRPPLECGRITFPSSLK	180
Bd2-3	LLPELLTEIVRRVDARADRWPPRRDVVACACVCRRWRDAAVSVVRPPLECGRITFPSSLK	116
Bd21-3	LLPELLTEIVRRVDARADRWPPRRDVVACACVCRRWRDAAVSVVRPPLECGRITFPSSLK	116
Bd21	LLPELLTEIVRRVDARADRWPPRRDVVACACVCRRWRDAAVSVVRPPLECGRITFPSSLK	116
ABR6	LLPELLTEIVRRVDARADRWPPRRDVVACACVCRRWRDAAVSVVRPPLECGRITFPSSLK	116
RON2	LLPELLTEIVRRVDARADRWPPRRDVVACACVCRRWRDAAVSVVRPPLECGRITFPSSLK	116
Bd1-1	LLPELLTEIVRRVDARADRWPPRRDVVACACVCRRWRDAAVSVVRPPLECGRITFPSSLK	116
Tek-4	-----	0
Bd29-1	LLPELLTEIVRRVDARADRWPPRRDVVACACVCRRWRDAAVSVVRPPLECGRITFPSSLK	116
Bd3-1	QPGTREFPMQCFIKRNKKNSTFYLYLGLTTATVDKGKFLMAARRFRRGPHTEYIISLDAD	97
Koz-3	QPGPRDAPMHCFIRRNKKNSTFYLYLSLTQALTDKGKFLLAARRFRHGAHTEYIISYDSD	176
Bd30-1	QPGPRDAPMHCFIRRNKKNSTFYLYLSLTQ-----	210
Bd2-3	QPGPRDAPMHCFIRRNKKNSTFYLYLSLTQALTDKGKFLLAARRFRHGAHTEYIISYDSD	176
Bd21-3	QPGPRDAPMHCFIRRNKKNSTFYLYLSLTQALTDKGKFLLAGRRFRHGAHTEYIISYDSD	176
Bd21	QPGPRDAPMHCFIRRNKKNSTFYLYLSLTQALTDKGKFLLAARRFRHGAHTEYIISYDSD	176
ABR6	QPGPRDAPMHCFIRRNKKNSTFYLYLSLTQALTDKGKFLLAARRFRHGAHTEYIISYDSD	176
RON2	QPGPRDAPMHCFIRRNKKNSTFYLYLSLTQALTDKGKFLLAARRFRHGAHTEYIISYDSD	176
Bd1-1	QPGPRDAPMHCFIRRNKKNSTFYLYLSLTQ-----GKFLLAARRFRHGAHTEYIISYDSD	171
Tek-4	-----	0
Bd29-1	QPGPRDAPMHCFIRRNKKNSTFYLYLSLTQALTDKGKFLLAARRFRHGAHTEYIISYDSD	176



Bd3-1	DLSQGSNAYMGKLRSDFWGTNFKVYDSKPPYDGAKASSSRSSRRFGSRRISPQVSAGNYE	157
Koz-3	DLYPGSNSGVGKMRSDFLGTKFIIYDSQQPYDGAKLLKSRSSRRFASKQISPHVSGGSFE	236
Bd30-1	----GSNSGVGKMRSDFLGTKFIIYDSQQPYDGAKLLKSRSSRRFASKQISPHVSGGSFE	266
Bd2-3	DLYPGSNSGVGKMRSDFLGTKFIIYDSQQPYDGAKLLKSRSSRRFASKQISPHVSGGSFE	236
Bd21-3	DLYPGSNSGVGKMRSDFLGTKFIIYDSQQPYDGAKLLKSRSSRRFASKQISPHVSGGSFE	236
Bd21	DLYPGSNSGVGKMRSDFLGTKFIIYDSQQPYDGAKLLKSRSSRRFASKQISPHVSGGSFE	236
ABR6	DLYPGSNSGVGKMRSDFLGTKFIIYDSQQPYDGAKLLKSRSSRRFASKQISPHVSGGSFE	236
RON2	DLYPGSNSGVGKMRSDFLGTKFIIYDSQQPYDGAKLLKSRSSRRFASKQISPHVSGGSFE	236
Bd1-1	DLYPGSNSGVGKMRSDFLGTKFIIYDSQQPFDGAKLLKSRSSRRFASKQISPHVSGGSFE	231
Tek-4	-----MRSDFLGTKFIIYDSQQPFDGAKLLKSRSSRRFASKQISPHVSGGSFE	48
Bd29-1	DLYPGSNSGVGKMRSDFLGTKFIIYDSQQPFDGAKLLKSRSSRRFASKQISPHVSGGSFE :**** **: * :***: *:**** :*****. *:***:*. *: *	236
Bd3-1	VGQVLYKYNLLKSRGPRRMYLECPCSTQETWENSLSKSFQKPMGTTVLNRKAPRWHEHL	217
Koz-3	VGQVLYKFNFLKSRGPRRMQCNIQCPVDQAAASDPSEKPKQSTSSSLSLRNKAPRWHEHL	296
Bd30-1	VGQVLYKFNFLKSRGPRRMQCNIQCPVDQAAASDPSEKPKQSTSSSLSLRNKAPRWHEHL	326
Bd2-3	VGQVLYKFNFLKSRGPRRMQCNIQCPVDQAAASDPSEKPKQSTSSSLSLRNKAPRWHEHL	296
Bd21-3	VGQVLYKFNFLKSRGPRRMQCNIQCPVDQAAASDPSEKPKQSTSSSLSLRNKAPRWHEHL	296
Bd21	VGQVLYKFNFLKSRGPRRMQCNIQCPVDQAAASDPSEKPKQSTSSSLSLRNKAPRWHEHL	296
ABR6	VGQVLYKFNFLKSRGPRRMQCNIQCPVDQAAASDPSEKPKQSTSSSLSLRNKAPRWHEHL	296
RON2	VGQVLYKFNFLKSRGPRRMQCNIQCPVDQAAASDPSEKPKQSTSSSLSLRNKAPRWHEHL	296
Bd1-1	VGQVLYKFNFLKSRGPRRMQCNIQCPVDQAAASDPSEKPKQSTSSSLSLRNKAPRWHEHL	291
Tek-4	VGQVLYKFNFLKSRGPRRMQCNIQCPVDQAAASDPSEKPKQSTSSSLSLRNKAPRWHEHL	108
Bd29-1	VGQVLYKFNFLKSRGPRRMQCNIQCPVDQAAASDPSEKPKQSTSSSLSLRNKAPRWHEHL ***:***:***** * :** * :. : *.* *. :. : *****	296
Bd3-1	QCWCLNFHGRVTVASVKNFQLVAAADPNPTGSRDEDTVLLQFGKVDDDIFTMDYRQPLS	277
Koz-3	QCWCLNFHGRVTVASVKNFQLVAPAGTSNPWGVGDEETVILQFGKIEDDAFTMDFRYPLS	356
Bd30-1	QCWCLNFHGRVTVASVKNFQLVAPAGTSNPWGVGDEETVILQFGKIEDDAFTMDFRYPLS	386
Bd2-3	QCWCLNFHGRVTVASVKNFQLVAPAGTSNPWGVGDEETVILQFGKIEDDAFTMDFRYPLS	356
Bd21-3	QCWCLNFHGRVTVASVKNFQLVAPAGTSNPWGVGDEETVILQFGKIEDDAFTMDFRYPLS	356
Bd21	QCWCLNFHGRVTVASVKNFQLVAPAGTSNPWGVGDEETVILQFGKIEDDAFTMDFRYPLS	356
ABR6	QCWCLNFHGRVTVASVKNFQLVAPAGTSNPWGVGDEETVILQFGKIEDDAFTMDFRYPLS	356
RON2	QCWCLNFHGRVTVASVKNFQLVAPAGTSNPWGVGDEETVILQFGKIEDDAFTMDFRYPLS	356
Bd1-1	QCWCLNFHGRVTVASVKNFQLVAPAGTSNPWGVGDEETVILQFGKIEDDAFTMDFRYPLS	351
Tek-4	QCWCLNFHGRVTVASVKNFQLVAPAGTSNPWGVGDEETVILQFGKIEDDAFTMDFRYPLS	168
Bd29-1	QCWCLNFHGRVTVASVKNFQLVAPAGTSNPWGVGDEETVILQFGKIEDDAFTMDFRYPLS ***** * . : * * **:**:*****:*** ***** *	356
Bd3-1	AFQAFACLTSFGTKLACE 296	
Koz-3	AFQAFACLTSFGTKLACE 375	
Bd30-1	AFQAFACLTSFGTKLACE 405	
Bd2-3	AFQAFACLTSFGTKLACE 375	
Bd21-3	AFQAFACLTSFGTKLACE 375	
Bd21	AFQAFACLTSFGTKLACE 375	
ABR6	AFQAFACLTSFGTKLACE 375	
RON2	AFQAFACLTSFGTKLACE 375	
Bd1-1	AFQAFACLTSFGTKLACE 370	
Tek-4	AFQAFACLTSFGTKLACE 187	
Bd29-1	AFQAFACLTSFGTKLACE 375 ***** . *:*****	



## BdTLp13

Bd30-1	MAAATTTTAKREPLRPLSCNAGAAAVAVVRPRGAATASAEKENQGAPNLGPDKEEKVKGA	60
Bd3-1	MAAATTTTAKREPL-----	14
Bd1-1	MAAATTTTAKREPLRPLSCNAGAAAVAVVRPRGAATASAEKENQGAPNLGPDKEEKVKGA	60
Tek-4	MAAATTTTAKREPLRPLSCNAGAAAVAVVRPRGAATASAEKENQGAPNLGPDKEEKVKVA	60
Bd21-3	MAAATTTTAKREPLRPLSCNAGAAAVAVVRPRGAATASAEKENQGAPNLGPDKEEKVKVA	60
Koz-3	MAAATTTTAKREPLRPLSCNAGAAAVAVVRPRGAATASAEKENQGAPNLGPDKEEKVKVA	60
Bd2-3	MAAATTTTAKREPLRPLSCNAGAAAVAVVRPRGAATASAEKENQGAPNLGPDKEEKVKVA	60
Bd21	MAAATTTTAKREPLRPLSCNAGAAAVAVVRPRGAATASAEKENQGAPNLGPDKEEKVKVA	60
ABR6	MAAATTTTAKREPLRPLSCNAGAAAVAVVRPRGAATASAEKENQGAPNLGPDKEEKVKVA	60
RON2	MAAATTTTAKREPLRPLSCNAGAAAVAVVRPRGAATASAEKENQGAPNLGPDKEEKVKVA	60
Bd29-1	MAAATTTTAKREPLRPLSCNAGAAAVAVVRPRGAATASAEKENQGAPNLGPDKEEKVKVA *****	60
Bd30-1	PPPPLKPSSLQARMGEAPLAAAAPAGGGPGFMGPRGGELLPPATPAAAAAASYEAWDPS	120
Bd3-1	-----	14
Bd1-1	PPPPLKPSSLQARMGEAPLAAAAPAAVGPVFMGPRGRELLPPATPAAAAAASYEAGGLS	120
Tek-4	PPPPLKPSSLQARMGEAPLAAAAPAAVVPVFMGPRGRELLPPATPAAAAAASYEAWDLS	120
Bd21-3	PPPPLKPSSLQARMGEAPLAAAAPAAVVPVFMGPRGRELLPPATPAAAAAASYEAWDLS	120
Koz-3	PPPPLKPSSLQARMGEAPLAAAAPAAVVPVFMGPRGRELLPPATPAAAAAASYEAWDLS	120
Bd2-3	PPPPLKPSSLQARMGEAPLAAAGPAAVVPVFMGPRGRELLPPATPAAAAAASYEAWDLS	120
Bd21	PPPPLKPSSLQARMGEAPLAAAAPAAVVPVFMGPRGRELLPPATPAAAAAASYEAWDLS	120
ABR6	PPPPLKPSSLQARMGEAPLAAAAPAAVVPVFMGPRGRELLPPATPAAAAAASYEAWDLS	120
RON2	PPPPLKPSSLQARMGEAPLAAAAPAAVVPVFMGPRGRELLPPATPAAAAAASYEAWDLS	120
Bd29-1	PPPPLKPSSLQARMGEAPLAAAAPAAVVPVFMGPRGRELLPPATPAAAAAASYEAWDLS	120
Bd30-1	DSEAAPAAAWATPPNRALLCRPLPLDVGRGPCVVVREKAAGPRGVALYSLYTNEGQGRRD	180
Bd3-1	-----RPL-----SCNAGAAAVAVGRPRGVALYSLYTNEGQGGQD	49
Bd1-1	DSEAAPAAASWAPLPNRALLCRPLPLDVGRCTCVVVREKAAGPRGVALYSLYTNEGQGRQD	180
Tek-4	DSEAAPAAASWAPLPNRALLCRPLPLDVGRCTCVVVREKAAGPRGVALYSLYTNEGQGRQD	180
Bd21-3	DSEAAPAAASWATLPNRALLCRPLPPDVGRCTCVVVREKAAGPRGVALYSLYTNEGQGRQD	180
Koz-3	DSEAAPAAASWATLPNRALLCRPLPLDVGRCTCVVVREKAAGPRGVALYSLYTNEGQGRQD	180
Bd2-3	DSEAAPAAASWATLPNRALLCRPLPLDVGRCTCVVVREKAAGPRGVALYSLYTNEGQGRQD	180
Bd21	DSEAAPAAASWATLPNRALLCRPLPLDVGRCTCVVVREKAAGPRGVALYSLYTNEGQGRQD	180
ABR6	DSEAAPAAASWATLPNRALLCRPLPLDVGRCTCVVVREKAAGPRGVALYSLYTNEGQGRQD	180
RON2	DSEAAPAAASWATLPNRALLCRPLPLDVGRCTCVVVREKAAGPRGVALYSLYTNEGQGRQD	180
Bd29-1	DSEAAPAAASWATLPNRALLCRPLPLDVGRCTCVVVREKAAGPRGVALYSLYTNEGQGRQD *** . . . ***** ** ;*	180
Bd30-1	RKLAGARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN	240
Bd3-1	RKLAGARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN	109
Bd1-1	RKLAGARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN	240
Tek-4	RKLAGARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN	240
Bd21-3	RKLAVARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN	240
Koz-3	RKLAVARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN	240
Bd2-3	RKLAVARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN	240
Bd21	RKLAVARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN	240
ABR6	RKLAVARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN	240
RON2	RKLAVARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN	240
Bd29-1	RKLAVARHRRRRGRSEFIVAQNQDGVFCSSDKNFLGTVGANLVGSKYQIWGQGNRIDEIN **** ** ** ;*****	240



Bd30-1	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	300
Bd3-1	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	169
Bd1-1	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	300
Tek-4	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	300
Bd21-3	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	300
Koz-3	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	300
Bd2-3	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	300
Bd21	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	300
ABR6	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	300
RON2	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	300
Bd29-1	SQSKRLLGVVAFAPTITTLTGSFRSMRAWIPKSQSMQLRTNSSAQIQHIGGLPKDWEEKA	300

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Bd30-1	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRQTILQLGRV	360
Bd3-1	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRQTILQLGRV	229
Bd1-1	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRRTILQLGRG	360
Tek-4	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRRTILQLGRG	360
Bd21-3	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRQTILQLGRG	360
Koz-3	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRQTILQLGRV	360
Bd2-3	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRQTILQLGRV	360
Bd21	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRQTILQLGRV	360
ABR6	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRQTILQLGRV	360
RON2	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRQTILQLGRV	360
Bd29-1	SRADKLCSRSPFYNNMTKRYELDFRERVGRMGYKVQTSVKNFQMTLEENGRRTILQLGRV	360

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Bd30-1	GKSKYIMDFRYPLTGYQAFICICLASMSKLCCTL	394
Bd3-1	GKSKYIMDFRYPLTGYQAFICICLASMSKLCCTL	263
Bd1-1	GKSKYIMDFRYPLTGYQAFICICLASMSKLCCTL	394
Tek-4	GKSKYIMDFRYPLTGYQAFICICLASMSKLCCTL	394
Bd21-3	GKSKYIMDFRYPLTG-----	375
Koz-3	GKSKYIMDFRYPLTGYQAFICICLASMSKLCCTL	394
Bd2-3	GKSKYIMDFRYPLTGYQAFICICLASMSKLCCTL	394
Bd21	GKSKYIMDFRYPLTGYQAFICICLASMSKLCCTL	394
ABR6	GKSKYIMDFRYPLTGYQAFICICLASMSKLCCTL	394
RON2	GKSKYIMDFRYPLTGYQAFICICLASMSKLCCTL	394
Bd29-1	GKSKYIMDFRYPLTGYQAFICICLASMSKLCCTL	394

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## BdTLp14

Bd30-1	MSLRSMIREMKGEVGAMSLRGLRSRPS-----SG---RDRRVAPDEAARQSSCWAQLPPE	52
Bd3-1	MSFRSLIQEMRDEFGSMSISRHGLRSSRSHRGAGHTPRASAVGP-AEALQQSCWTRLPPE	59
Bd21	MSFRSLIQEMRDEFGSMSISRHGLRSSRSHRGAGHTPRASAVGP-AEALQQSCWTRLPPE	59
Tek-4	MSFRSLIQEMRDEFGSMSISRHGLRSSRSHRGAGHTPRASAVGP-AEALQQSCWTRLPPE	59
ABR6	MSFRSLIQEMRDEFGSMSISRHGLRSSRSHRGAGHTPRASAVGP-AEALQQSCWTRLPPE	59
Bd29-1	MSFRSLIQEMRDEFGSMSISRHGLRSSRSHRGAGHTPRASAVGP-AEALQQSCWTRLPPE	59
Bd2-3	MSFRSLIQEMRDEFGSMSISRHGLRSSRSHRGAGHTPRASAVGP-AEALQQSCWTRLPPE	59
RON2	MSFRSLIQEMRDEFGSMSISRHGLRSSRSHRGAGHTPRASAVGP-AEALQQSCWTRLPPE	59
Koz-3	MSFRSLIQEMRDEFGSMSISRHGLRSSRSHRGAGHTPRASAVGP-AEALQQSCWTRLPPE	59
Bd21-3	MSFRSLIQEMRDEFGSMSISRHGLRSSRSHRGAGHTPRASAVGP-AEALQQSCWTRLPPE	59
Bd1-1	MSFRSLIQEMRDEFGSMSISRHGLRSSRSHRGAGHPPRASAGGP-AEALQQSCWTRLPPE **:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*:*	59
Bd30-1	LLREVLGRVEESEPRWRPRRDVVACAGVCQSWRGAVREIVRVPEESGKLTFPISLKQPGP	112
Bd3-1	LLREVLVKIEDSEGCPSSRDVVSCAGVCRTWRGIMKEVVRVPEASGKLTFPISLKQPGP	119
Bd21	LLREVLVKIEDSEGCPSSRDVVSCAGVCRTWRGIMKEVVRVPEASGKLTFPISLKQPGP	119
Tek-4	LLREVLVKIEDSEGCPSSRDVVSCAGVCRTWRGIMKEVVRVPEASGKLTFPISLKQPGP	119
ABR6	LLREVLVKIEDSEGCPSSRDVVSCAGVCRTWRGIMKEVVRVPEASGKLTFPISLKQPGP	119
Bd29-1	LLREVLVKIEDSEGCPSSRDVVSCAGVCRTWRGIMKEVVRVPEASGKLTFPISLKQPGP	119
Bd2-3	LLREVLVKIEDSEGCPSSRDVVSCAGVCRTWRGIMKEVVRVPEASGKLTFPISLKQPGP	119
RON2	LLREVLVKIEDSEGCPSSRDVVSCAGVCRTWRGIMKEVVRVPEASGKLTFPISLKQPGP	119
Koz-3	LLREVLVKIEDSEGCPSSRDVVSCAGVCRTWRGIMKEVVRVPEASGKLTFPISLKQPGP	119
Bd21-3	LLREVLVKIEDSEGCPSSRDVVSCAGVCRTWRGIMKEVVRVPEASGKLTFPISLKQPGP	119
Bd1-1	LLREGLGKIEDSEGCPSSRDVVSCAGVCRTWRGIMKEVVRVPEASGKLTFPISLKQPGP **** * :*:** ** *****:*****:*** :*:***** *****	119
Bd30-1	RDAPIKCFIRRNRTHTYCLYIGLTDALADDGKFLLAARKYHRPTCTEYLILLDRTDMSK	172
Bd3-1	KDGTLCRFIRRNRTTQYSLYIGLTEALADDGKFLLAARKCRKATYTDYLISLDMGDMSK	179
Bd21	KDGTLCRFIRRNRTTQYSLYIGLTEALADDGKFLLAARKCRKATYTDYLISLDMGDMSK	179
Tek-4	KDGTLCRFIRRNRTTQYSLYIGLTEALADDGKFLLAARKCRKATYTDYLISLDMGDMSK	179
ABR6	KDGTLCRFIRRNRTTQYSLYIGLTEALADDGKFLLAARKCRKATYTDYLISLDMGDMSK	179
Bd29-1	KDGTLCRFIRRNRTTQYSLYIGLTEALADDGKFLLAARKCRKATYTDYLISLDMGDMSK	179
Bd2-3	KDGTLCRFIRRNRTTQYSLYIGLTEALADDGKFLLAARKCRKATYTDYLISLDMGDMSK	179
RON2	KDGTLCRFIRRNRTTQYSLYIGLTEALADDGKFLLAARKCRKATYTDYLISLDMGDMSK	179
Koz-3	KDGTLCRFIRRNRTTQYSLYIGLTEALADDGKFLLAARKCRKATYTDYLISLDMGDMSK	179
Bd21-3	KDGTLCRFIRRNRTTQYSLYIGLTEALADDGKFLLAARKCRKATYTDYLISLDMGDMSK	179
Bd1-1	KDGTLCRFIRRNRTTQYSLYIGLTEALADDGKFLLAARKCRKATYTDYLISLDMGDMSK :* :*:*****:*:* *****:*****:***** :*:***** ** *	179
Bd30-1	GSQTCIGKLRSNFLRTKFTVYDAHPPHSGAVVSK-----RWSSGNYPVSHI	218
Bd3-1	GSSTYIGKLRSNFLGTKFTVYDAHPPYDGAVVSKSRSARVIGLNRVSPRPAGNYPVSHI	239
Bd21	GSSTYIGKLRSNFLGTKFTVYDAHPPYDGAVVSKSRSARVIGLNRVSPRPAGNYPVSHI	239
Tek-4	GSSTYIGKLRSNFLGTKFTVYDAHPPYDGAVVSKSRSARVIGLNRVSPRPAGNYPVSHI	239
ABR6	GSSTYIGKLRSNFLGTKFTVYDAHPPYDGAVVSKSRSARVIGLNRVSPRPAGNYPVSHI	239
Bd29-1	GSSTYIGKLRSNFLGTKFTVYDAHPPYDGAVVSKSRSARVIGLNRVSPRPAGNYPVSHI	239
Bd2-3	GSSTYIGKLRSNFLGTKFTVYDAHPPYDGAVVSKSRSARVIGLNRVSPRPAGNYPVSHI	239
RON2	GSSTYIGKLRSNFLGTKFTVYDAHPPYDGAVVSKSRSARVIGLNRVSPRPAGNYPVSHI	239
Koz-3	GSSTYIGKLRSNFLGTKFTVYDAHPPYDGAVVSKSRSARVIGLNRVSPRPAGNYPVSHI	239
Bd21-3	GSSTYIGKLRSNFLGTKFTVYDAHPPYDGAVVSKSRSARVIGLNRVSPRPAGNYPVSHI	239
Bd1-1	GSSTYIGKLRSNFLGTKFTVYDAHPPYDGAVVSKSRSARVIGLNRVSPRPAGNYPVSHI **.* ***** *****:***** * :*****	239



Bd30-1	YYDVNVLGSRGPRRMNCVMDSIPVSAI-KGGTAPTQTGFPSSSHDSFASIPFFFKSKSSRR	277
Bd3-1	SYELNVLGSRGPRRMNCVMNSIPASAVEEGGKAPTQTEFPRSNLDSFPSIPFFRSKSARI	299
Bd21	SYELNVLGSRGPRRMNCVMNSIPASAVEEGGKAPTQTEFPRSNLDSFPSIPFFRSKSARI	299
Tek-4	SYELNVLGSRGPRRMNCVMNSIPASAVEEGGKAPTQTEFPRSNLDSFPSIPFFRSKSARI	299
ABR6	SYELNVLGSRGPRRMNCVMNSIPASAVEEGGKAPTQTEFPRSNLDSFPSIPFFRSKSARI	299
Bd29-1	SYELNVLGSRGPRRMNCVMNSIPASAVEEGGKAPTQTEFPRSNLDSFPSIPFFRSKSARI	299
Bd2-3	SYELNVLGSRGPRRMNCVMNSIPASAVEEGGKAPTQTEFPRSNLDSFPSIPFFRSKSARI	299
RON2	SYELNVLGSRGPRRMNCVMNSIPASAVEEGGKAPTQTEFPRSNLDSFPSIPFFRSKSARI	299
Koz-3	SYELNVLGSRGPRRMNCVMNSIPASAVEEGGKAPTQTEFPRSNLDSFPSIPFFRSKSARI	299
Bd21-3	SYELNVLGSRGPRRMNCVMNSIPASAVEEGGKAPTQTEFPRSNLDSFPSIPFFRSKSARI	299
Bd1-1	SYELNVLGSRGPRRMNCVMNSIPASAVEEGGKAPTQTEFPRSNLDSFPSIPFFRSKSARI	299

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Bd30-1	DSSTTQLSTQEESKLVLKNKSPRWQEHLCWCNLFHGRVTVASVKNFQLVPSDESAPTNH	337
Bd3-1	DSTASQLPTQMEEKLVLKNKSPRWHEQLQCWCNLFGRVTVASVKNFQLVASDDNGPANQ	359
Bd21	DSTASQLPTQMEEKLVLKNKSPRWHEQLQCWCNLFGRVTVASVKNFQLVASDDNGPANQ	359
Tek-4	DSTASQLPTQMEEKLVLKNKSPRWHEQLQCWCNLFGRVTVASVKNFQLVASDDNGPANQ	359
ABR6	DSTASQLPTQMEEKLVLKNKSPRWHEQLQCWCNLFGRVTVASVKNFQLVASDDNGPANQ	359
Bd29-1	DSTASQLPTQMEEKLVLKNKSPRWHEQLQCWCNLFGRVTVASVKNFQLVASDDNGPANQ	359
Bd2-3	DSTASQLPTQMEEKLVLKNKSPRWHEQLQCWCNLFGRVTVASVKNFQLVASDDNGPANQ	359
RON2	DSTASQLPTQMEEKLVLKNKSPRWHEQLQCWCNLFGRVTVASVKNFQLVASDDNGPANQ	359
Koz-3	DSTASQLPTQMEEKLVLKNKSPRWHEQLQCWCNLFGRVTVASVKNFQLVASDDNGPANQ	359
Bd21-3	DSTASQLPTQMEEKLVLKNKSPRWHEQLQCWCNLFGRVTVASVKNFQLVASDDNGPANQ	359
Bd1-1	DSTASQLPTQMEEKLVLKNKSPRWHEQLQCWCNLFGRVTVASVKNFQLVASDDNGPANQ	359

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Bd30-1	ELDDATLQFGKIGKDMFSMDYRYPISAFQAFACLSSFDTKIACE	382
Bd3-1	EHDKVILQFGKIGKDLFTMDYRYPISAFQSFAICLSSFDTKIACE	404
Bd21	EHDKVILQFGKIGKDLFTMDYRYPISAFQSFAICLSSFDTKIACE	404
Tek-4	EHDKVILQFGKIGKDLFTMDYRYPISAFQSFAICLSSFDTKIACE	404
ABR6	EHDKVILQFGKIGKDLFTMDYRYPISAFQSFAICLSSFDTKIACE	404
Bd29-1	EHDKVILQFGKIGKDLFTMDYRYPISAFQSFAICLSSFDTKIACE	404
Bd2-3	EHDKVILQFGKIGKDLFTMDYRYPISAFQSFAICLSSFDTKIACE	404
RON2	EHDKVILQFGKIGKDLFTMDYRYPISAFQSFAICLSSFDTKIACE	404
Koz-3	EHDKVILQFGKIGKDLFTMDYRYPISAFQSFAICLSSFDTKIACE	404
Bd21-3	EHDKVILQFGKIGKDLFTMDYRYPISAFQSFAICLSSFDTKIACE	404
Bd1-1	EHDKVILQFGKIGKDLFTMDYRYPISAFQSFAICLSSFDTKIACE	404

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