

SUPPLEMENTARY INFORMATION

Supplementary data

Dataset 1: Comparison of reconstructed OWM ancestors at 22:0 (N:S) branch.

CLUSTAL 2.0.8 multiple sequence alignment

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pk_r_node27      ATGGCTGGTGATCTTGCACCAGGTTTCTTCATGGAGGAACTTAATAAATACCGTCAGAAG 60
pk_r_node28      ATGGCTGGTGATCTTGCACCAGGTTTCTACATGGAGGAACTTAATAAATACCGTCAGAAG 60
*****

pk_r_node27      CAGGGAATAACACTTAGCTATCAAGAAGTGCCTAATACAGGACCTCCACATGATAGGAG 120
pk_r_node28      CAGGGAATAACATTTAGCTATCAAGAAGTGCCTAATACAGGACCTCCACATGATAGGAG 120
*****

pk_r_node27      TTTACATTTGAGTTATAACAGATAGAAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
pk_r_node28      TTTACATTTGAGTTGTAACAGATAGAAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
*****

pk_r_node27      AAGGAAGCAAAAAATGCTGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAGCAAG 240
pk_r_node28      AAGGAAGCAAAAAATGCTGCAGCCAAATTAGCTGTTGATATACTTAATAAGGAAAGCAAG 240
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pk_r_node27      GCAGTTAGTCCTTTTTTCATTGACAACAACCAGTTCTTCGGAAGGATCCATTGGGAATTAC 300
pk_r_node28      GCAGTTAGTCCTTTTTTCATTGACAACAACCAGTTCTTCGGAAGGATCCATTGGGAATTAC 300
*****

pk_r_node27      ATAGGCGTTGTCAATAGAATTGCCCAGAAGAAAAGACTAACTGTAAATTATGAACAATGT 360
pk_r_node28      ATAGGCGTTGTCAATAGAATTGCCCAGAAGAAAAGACTAACTGTAAATTATGAACAATGT 360
*****

pk_r_node27      ACATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAAGAA 420
pk_r_node28      ACATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGAGAGAAAGAA 420
*****

pk_r_node27      TATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTTGCA 480
pk_r_node28      TATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTTGCA 480
*****

pk_r_node27      TTTCTTGAGATATCAGAAGAAACCTCAGTGAAACCTGACTCCATGTCTCTGGTTCTTTT 540
pk_r_node28      TTGCTTGAGATATCAGAAGAAACCTCAGTGAAACCTGACTCCATGTCTCTGGTTCTTTT 540
** *****

pk_r_node27      GCTGCTACGTGTGACTCCCAAAGCAACCCTTTAGTGAACAACCTCACTTGCTTCTGAATCA 600
pk_r_node28      GCTGCTACGTGTGACTCCCAAAGCAACCCTTTAGTGAACAACCTCACTTGCTTCTGAATCA 600
*****

pk_r_node27      TCATCTGAAAGTGACGTCTCAGCAGATACATCAGAGATAAATTCTAACAGTAGTTTAAAC 660
pk_r_node28      TCATCTGAAAGTGACGTCTCAGCAGATACATCAGAGATAAATTCTAACAGTAGTTTAAAC 660
*****

pk_r_node27      AATTCTTCATTGTTTACGAATGGTCTCAGAAATAACCAAAGGAAGGCAAAAAGATCTTTG 720
pk_r_node28      AATTCTTCATTGTTTACGAATGGTCTCAGAAATAACCAAAGGAAGGCAAAAAGATCTTTG 720
*****

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pkr_node27 GCACCTAGATTTGACCCCTCTGACATGAAAGGAACAAAGTATACTGCGGATGCAAGGTTT 780
 pkr_node28 GCACCTACATTTGACCCCTCTGACATGAAAGGACCAAAGTATACTGAGGATGCAAGGTTT 780

pkr_node27 GGCACGGATTTTAAAGAAATAGAATTCATTAGCTCGGGTGGATTTGGCCAAGTTTTCAA 840
 pkr_node28 GGCACGGATTTTAAAGAAATAGAATTCATTAGCGTGGGTGGATTTGGCCAAGTTTTCAA 840

pkr_node27 GCAAAACACAGAATTGACGGAAAGACTTACGTTATTAACGTGTTAAATATAATAGCGAG 900
 pkr_node28 GCAAAACACAGAATTGACGGAAAGACTTACGTTATTAACGTGTTAAATATAATAGCAAG 900

pkr_node27 AAGGCAGAGCGTGAAGTAAAAGCATTGGCAAAACTTGATCATGTAAATATTGTTCACTAC 960
 pkr_node28 AAGGCAGAGCGTGAAGTAAAAGCATTGGCAAAACTTGATCATGTAAATATTGTTCACTAC 960

pkr_node27 AATGGCTGTTGGGATGGACTTGATTATGATCCTGAGATCAGTGCTTATGATCCTGAGAGC 1020
 pkr_node28 AATGGCTGTTGGGATGGACTTGATTATGATCCTGAGATCAGTGCTTATGATCCTGAGAGC 1020

pkr_node27 CCTGATTATGATCCTGAGAACAGCAAAAATAGTTCAAGATCAAAGACTAAGTGCCTTTTC 1080
 pkr_node28 CCTGATTTTATGATCCTGAGAACAAAAAATAGTTTAAAGATCAAAGACTAAGTGCCTTTTC 1080

pkr_node27 ATCCAAATGGAATTCTGTGAAAAAGGGACATTGGAGCAATGGATTGAAGATAGAAGAGGC 1140
 pkr_node28 ATCCAAATGGAATTCTGTGAAAAAGGGACATTGGAGGAATGGATTGAAGATAGAAAAGGC 1140

pkr_node27 AAGAACTAGACAAAAGTTTTGGCTTTGGAACCTTTTGAACAAATAACAAAAGGGGTGGAT 1200
 pkr_node28 AAGAACTAGACAAAAGTTTTGGCTTTGGAACCTTTTGAACAAATAACAAAAGGGGTGGAT 1200

pkr_node27 TATATACATTCAAAAAATATAATTCATAGAGATCTTAAGCCAAGTAATATATTCTTAGTA 1260
 pkr_node28 TATATACATTCAAAAAATATAATTCATAGAGATCTTAAGCCAAGTAATATATTCTTAGTA 1260

pkr_node27 GATACAAAACAAAATAAAGATTGGAGACTTTGGACTTGCAACATCTCTGAAAAATGATGGA 1320
 pkr_node28 GATACAAAACAAAATAAAGATTGGAGACTTTGGACTTGCAACATCTCTGAAAAATGATGGA 1320

pkr_node27 AAGCGAACAAGGAATACGGGAACCTTTGCGATACATGAGCCCAGAACAGATTTCTTCGCAA 1380
 pkr_node28 AAGCGAACAAGGAATACGGGAACCTTTGCGATACATGAGCCCAGAACAGATTTCTTCGCAA 1380

pkr_node27 GACTATGAAAAGGAAGTGGACCTCTACGCTTTGGGGCTAATTCTTGCTGAACTTCTTCAT 1440
 pkr_node28 GACTATGAAAAGGAAGTGGACCTCTACGCTTTGGGGCTAATTCTTGCTGAACTTCTTCAT 1440

pkr_node27 GTATGTGACACTGCTTTTCGAAACATCAAAGTTTTTCAAAGACCTACGGGATGGCATCATC 1500
 pkr_node28 GTATGTGACACTGCTTTCCGAAACATCAAAGTTTTTCAAAGACCTACGGGATGGCACCATC 1500

pkr_node27 TCAGATGTGTTTGATAAAAAGAGAAAAAATCTTCTAGAGAAATTACTCTCAAAGAAACCT 1560
 pkr_node28 TCAGATGTGTTTGATAAAAAGAGAAAAAATCTTCTAGAGAAATTACTCTCAAAGAAACCT 1560

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pk_r_node27      GAGGACCGACCTAACACATCTGAAATACTAAGCACCTTGACTACGTGGAAGAAAAGCCCA 1620
pk_r_node28      GAGGACCGACCTAACACATCTGAAATACTAAGCACCTTGACTACGTGGAAGAAAAGCCCA 1620
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pk_r_node27      GAGAAAAAG 1629
pk_r_node28      GAGAAAAAG 1629
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pkr_hum TTTACATTTCAAGTTATAATAGATGGAAGAGAATTTCCAGAAGGTGAAGGTAGATCAAAG 180
 pkr_chi TTTACATTTTCGAGTTATAATAGATGGAAGAGAATTTCCAGAAGGTGAAGGTAGATCAAAG 180
 pkr_bon TTTACATTTTCGAGTTATAATAGATGGAAGAGAATTTCCAGAAGGTGAAGGTAGATCAAAG 180
 pkr_gor TTTACATTTTCGAGTTATAATAGATGAAAGAGAATTTCCAGAAGGTGAAGGTAGATCAAAG 180
 pkr_ora TTTACATTTTCGAGTTATAATAGACGGAAGAGAATTTCCAGAAGCCGAAGGTAGATCAAAG 180
 pkr_agi TTTACATTTTCGAGTTATAATAGATGAAAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
 pkr_wcg TTTACATTTTCGAGTTATAATAGATGAAAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
 pkr_isi TTTACATTTTCGAGTTATAATAGATGAAAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
 pkr_smg TTTACATTTCAAGTTGTAACAGATAGAAGAAAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
 pkr_rhe TTTACATTTCAAGTTGTAACAGATAGAAGAACAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
 pkr_tal TTTACATTTTCGAGTTGTAACAGATAGAAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
 pkr_pat TTTACATTTTCGAGTTGTAACAGATAGAAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
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 pkr_flg TTTACTTTTTCGAGTTATATCAGATAGAAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
 pkr_col TTTACATTTTCGAGTTATATCAGATAAAAAGACAATTTCCAGAAGCTGAAGGTAGATCAAAG 180
 pkr_woo TTTACATTTCAAGTTATAATAGATGGGAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAA 180
 pkr_spi TTTACATTTCAAGTTATAATAGATGGGAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAA 180
 pkr_tit TTTACATTTCAAGTTATAATAGATGGGAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAA 180
 pkr_owl TTTACATTTCAAGTTATAATAGATGGGAGAGAATTTCCAGAAGCTGAAGGTAAATCAAAA 180
 pkr_tam TTTACATTTCAAGTTATAATAGATGGGAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAA 180
 pkr_mar TTTGCATTTCAAGTTATAATAGATGGGAGAGAATTTCCAGAAGCTGAAGGTAGATCAAAA 180

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pkr_hum AAGGAAGCAAAAAATGCCGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAAGAAG 240
 pkr_chi AAGGAAGCAAAAAATGCCGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAAGAAG 240
 pkr_bon AAGGAAGCAAAAAATGCCGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAAGAAG 240
 pkr_gor AAGGAAGCAAAAAATGCCGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAAGAAG 240
 pkr_ora AAGGAAGCAAAAAATGCCGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAAGAAG 240
 pkr_agi AAGGAAGCAAAAAATGCTGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAAGAAG 240
 pkr_wcg AAGGAAGCAAAAAATGCTGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAAGAAG 240
 pkr_isi AAGGAAGCAAAAAATGCTGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAAGAAG 240
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 pkr_flg AAGGAAGCAAAAAATGCTGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAAGCAAG 240
 pkr_col AAGGAGGCAAAAAATGCTGCAGCCAAATTAGCTGTTGAGATACTTAATAAGGAAAAGCAAG 240
 pkr_woo AAGGAAGCAAAAAATGCCGCAGCCAAAGTAGCTGTTGAGATACTTAATAAGGAAAACAAG 240
 pkr_spi AAGGAAGCAAAAAATGCCGCAGCCAAAGTAGCTGTTGAGATACTTAATAAGGAAAACAAG 240
 pkr_tit AAGGAAGCAAAAAATGCCGCAGCCAAAGTAGCTGTTGAGATACTTAATAAGGAAAACAAG 240
 pkr_owl AAGGAAGCAAAAAATGCCGCAGCCAAAGTAGCTGTTGAGATACTTAATAAGGAAAACAAG 240
 pkr_tam AAGGAAGCAAAAAATGCCGCAGCCAAAGTAGCTGTTGAGATACTTAATAAGGAAAACAAG 240
 pkr_mar AAGGAAGCAAAAAATGCCGCAGCCAAAGTAGCTGTTGAGATACTTAATAAGGAAAACAAG 240

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pkr_hum TGTGCATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_chi TGTGCATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_bon TGTGCATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_gor TGTGCATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_ora TGTGCATCGGGGGTGCATGGGCTAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_agi TGTGGATGGGGGTGCATGGGACAAAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_wcg TGTGTATCGGGGGTGCATGGGCCAAAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_isi TGTGGATGGGGGGTGCATGGGCCAAAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_smg TGTACATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_rhe TGTACATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_tal TGTACATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
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 pkr_agm TGTACATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_flf TGTATATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_col TGTATATCGGGGGTGCATGGGCCAGAAGGATTTTCATTATAAATGCAAAATGGGACAGAAA 420
 pkr_woo TGTGCATCGGGGGTGAATGGGCCAGAAGGATTTTCATTATAAATGCAAAGTGGGGCAGAAA 420
 pkr_spi TGTGTATCAGGGATGAATGGGCCAGAAGGATTTTCATTATAAATGCAAAGTGGGGCAGAAA 420
 pkr_tit TGTGCATCGGGGGTGAACGGGCCAGAAGGATTTTCATTATAAATGCAAAGTGGGGCAGAAA 417
 pkr_owl TGTGCATCAGGGGTGAATGGGCCAGCAGGATTTTCATTATAAATGCAAAGTGGGGCAGAAA 420
 pkr_tam TGTGCATCGGGGGTGAATGGGCCAGAAGGATTTTCATTATAAATGCAAAGTGGGGCAGAAA 420
 pkr_mar TGTGCATCGGGGGTGAATGGGCCAGAAGGATTTTCATTATAAATGCAAAGTGGGGCAGAAA 420
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pkr_hum GAATATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_chi GAATATAGTATTGGTACAAGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_bon GAATATAGTATTGGTACAAGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_gor GAATATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_ora GAATATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_agi GAATATAGTATTGCTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_wcg GAATATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_isi GAATATAGTATTGCTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_smg GAATATGGTATTGGTACAGGTTCTAGTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_rhe GAATATGGTATTGGTACAGGTTCTAGTAAACAGGAAGCAAAACAGTTGGCCGCTAAACTT 480
 pkr_tal GAATATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_pat GAATATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_agm GAATATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAACTT 480
 pkr_flf GAATATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCTGCTAAATTT 480
 pkr_col GAATATAGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCCGCTAAATTT 480
 pkr_woo GAATATGGCATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCTGCTAAACTT 480
 pkr_spi GAATATGGCATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCTGCTAAACTT 480
 pkr_tit GAATATGGTATTGCTACAGGTTCTACTAAACAGGAAGCAAAACAGTTGGCTGCTAAACTT 477
 pkr_owl GAATATGGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCTGCTAAACTT 480
 pkr_tam GAATATGGTATTGGTACAGGTTCTACCAAACAGGAAGCAAAACAATTGGCTGCTAAACTT 480
 pkr_mar GAATATGGTATTGGTACAGGTTCTACTAAACAGGAAGCAAAACAATTGGCTGCTAAACTT 480
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pkr_hum      GCTTCTGAATCATCATCTGAAGGTGACTTCTCAGCAGATACATCAGAGATAAAATTCTAAC 654
pkr_chi      GCTTCTGAATCATCATCTGAAGGTGACTTCTCAGCAGATACATCAGAGATAAAATTCTAAC 654
pkr_bon      GCTTCTGAATCATCATCTGAAGGTGACTTCTCAGCAGATACATCAGAGATAAAATTCTAAC 654
pkr_gor      GCTTCTGAATCATCATCTGAAGGTGACTTCTCAGCAGATACATCAGAGATAAAATTCTAAC 654
pkr_ora      GGTTCGAATCATCATCTGAAAGTGACTTCTCAGCAGATACATCAGAGATAAAATTCTAAC 654
pkr_agi      GCTTCTGCATCATCATCTGAAGGTGACTTCTCAGCAGATACATCTGAGATAAAATTCTAAC 654
pkr_wcg      GCTTCTGCATCATCATCTGAAGGTGACTTCTCAGCAGATACATCAGAGATAAAATTCTAAC 654
pkr_isi      GCTTCTGCATCATCATCTGAAGGTGACTTCTCAGCAGATACATCAGAGATAAAATTCTAAC 654
pkr_smg      GCTTCTGAATCATCATCTGAAAGTGACGTCCCAGCAGATACATCAGAGATAAAATTCTAAC 651
pkr_rhe      GCTTCTGAATCATCAGCTGAAAGTGACGTCTCAGCAGATACATCAGAGATAAAATTCTAAA 651
pkr_tal      GCTTCTGAATCATCATCTGAAAATGACGTCTCAGCAGATACATCAGAGATAAAATTCTAAC 651
pkr_pat      GCTTCTGAATCATCATCTGAAAATGACGTCTCAGCAGATACATCAGAGATAAAATTCTAAC 651
pkr_agm      GCTTCTGAATCATCATCTGAAAATGACGTCTCAGCAGATACATCAGAGATAAAATTCTAAC 651
pkr_flf      GCTTCTGAATCATCATCTGAAGGTGACGTCTCAGCAGATACATCAGAGATAAAATTCTAAC 651
pkr_col      GCTTCTGATTCATCATCTGAAAGTGACGTCTCAGCAGATACATCAGAGATAAAATTCTAAC 651
pkr_woo      GCTTCTGAATCATTACCTGAAAGTGGCTTCTCAGCAGATACATCAGAGATAAAATTGTAAC 657
pkr_spi      GCTTCTGAATCATTACCTGAAAGTGGCTTCTCAGGAGATAACATCAGAGATAAAATTGTAAC 657
pkr_tit      GCTTCTGAACCAACACCTCAAAGTAGTTTCTCAGCAGATACATCAGAGATAAAATTGTAAC 654
pkr_owl      GCTTCTGAATCATCACCTGAAAGTAGTTTCTCAGCAGATACATCAGAGATAAACTTGTAAAC 660
pkr_tam      GCTTCTGAATCATCACCTGAAAGTAGTTTCTCAGCAGATACATCAGAGATAAAATTGTAAC 657
pkr_mar      GCTTCTGAATCATCACCTGAAAGTAGTTTCTCAGCAGATACATCAGAGATAAAATTTTAAAC 657
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pkr_hum      AGTGACAGTTTAAACAGT---TCTTCGTTGCTTATGAATGGTCTCAGAAATAATCAAAGG 711
pkr_chi      AGTGACAGTTTAAACAGT---TCTTCGTTGCTTATGAATGGTCTCAGAAATAATCAAAGG 711
pkr_bon      AGTGACAGTTTAAACAGT---TCTTCGTTGCTTATGAATGGTCTCAGAAATAATCAAAGG 711
pkr_gor      AGTGACAGTTTAAACAGT---TCTTCGTTGCTTATGAATGGTCTCAGAAATAATCAAAGG 711
pkr_ora      AGTGACAGTTTAAAGAAT---TCTTCGTCGCTTATGAATGGTCTCAGAAATAATCAAAGA 711
pkr_agi      AGTGACAGTTTAAACAAT---TCTTCGTTGCTTATGAATGGTCTCAGAAATAATCAAAGG 711
pkr_wcg      AGTGACAGTTTAAACAAT---TCTTCGTTGCTTATGAATGGTCTCAGAAATAATCAAAGG 711
pkr_isi      AGTGACAGTTTAAACAAT---TCTTCGTTGCTTATGAATGGTCTCAGAAATAATCAAAGG 711
pkr_smg      AGTAGCAGTTTACACATT---TCTTCATTGTTTACGAATGGTCTCAGAAATAACCAAAGG 708
pkr_rhe      AGTGGCAGTTTACACATT---TCTTCATTGTTTACGAATGGTCTCAGAAATAACCAAAGG 708
pkr_tal      AGTGGCAGTTTAAACAAT---TCTTCATTGTTTACGAATGGTCTCAGAAATAACCAAAGG 708
pkr_pat      AGTGGCAGTTTAAACAAG---TCTTCATTGTTTACGAATGGTCTCAGAAATAACCAAAGG 708
pkr_agm      AGTGGCAGTTTAAACAAG---TCTTCATTGTTTACGAATGGTCTCAGAAATAACCAAAGG 708
pkr_flf      AGTGGCAGTTTAAACAAT---TCTTCATTGTTTACGAATGGTCTCAGAAATAACCAAAGG 708
pkr_col      AGTGGCAGTTTAAACAAT---TCTTCATTGTTTACGAATGGTCTCAGAAATAACCAAAGG 708
pkr_woo      AAC---AGTTTAAACAATGTTCTTCATTGTTCTATGAATGGTCTCAGAAATAATCAAAGG 714
pkr_spi      AAC---AGTTTAAACAGTTGTTCTTCATTGTTCTATGAATGGTCTCAGAAATAATCAAAGG 714
pkr_tit      AAT---AGTTTAAACAATGTTCTTCATTGTTCTATGAATGGTCTCAGAAATAATCAAAGG 711
pkr_owl      AAT---AGTTTAAACAATGTTCTTCATTGTTCTATGAATGGTCTCAGAAATAATCAAAGG 717
pkr_tam      AAT---GGTTTGAATAACTGTTCTTCATTGTTCTACGAATGGTCTCAGAAATAATCAAAGG 714
pkr_mar      AAT---AGTTTAAACAATGTTCTTCATTGTTCTATGAATGGTCTCAGAAATAATCAAAGG 714
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pkr_hum TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGACGGAAAAGACTTACGTTATTTAAACGT 891
 pkr_chi TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGACGGAAAAGACTTACGTTATTTAAACGT 891
 pkr_bon TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGACGGAAAAGACTTACGTTATTTAAACGT 891
 pkr_gor TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGACGGAAAAGACTTACGTTATTTAAACGT 891
 pkr_ora TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGACGGAAAAGACTTACGTTATTTAAACGT 891
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 pkr_col TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGACGGAAAAGACTTACGTTATTTAAACGT 888
 pkr_woo TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGACGGAAAAGACTTATGTTATTTAAACGT 894
 pkr_spi TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGACGGAAAAGACTTATGTTATTTAAACGT 894
 pkr_tit TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGACGGAAAAGACTTACGTTATTTAAACGT 891
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 pkr_tam TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGACGGAAAAGACTTACGTTATTTAAACGT 894
 pkr_mar TTTGGCCAAGTTTTCAAAGCAAAAACACAGAATTGATGAAAAGACTTACGTTATTTAAACGT 894
 ***** **

pkr_hum GTTAAATATAATAACGAGAAGGCGGAGCGTGAAGTAAAAGCATTGGCAAAACTTGATCAT 951
 pkr_chi GTTAAATATAATAACGAGAAGGCGGAGCGTGAAGTAAAAGCATTGGCAAAACTTGATCAT 951
 pkr_bon GTTAAATATAATAACGAGAAGGCGGAGCGTGAAGTAAAAGCATTGGCAAAACTTGATCAT 951
 pkr_gor GTTAAATATAATAACGAGAAGGCGGAGCGTGAAGTAAAAGCATTGGCAAAACTTGATCAT 951
 pkr_ora GTTAAATATAATAACGAGAAGGCGGAGCGTGAAGTAAAAGCATTGGCAAAACTTAAATCAT 951
 pkr_agi GTTAAATATAATAGCGAGAGGGTGGAGCGTGAAGTAAAAGCATTGGCAAAACTTGATCAT 951
 pkr_wcg GTTAAATATAATAGCGAGAAGGTGGAGCGTGAAGTAAAAGCATTGGCAAAACTTGATCAT 951
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 pkr_woo GTTAAATATAATAGCGACAAGGCAGAGCGTGAAGTAAAAGCATTGGCAGAACTTGATCAT 954
 pkr_spi GTTAAATATAATAGCGACAAGGCAGAGCGTGAAGTAAAAGCATTGGCAGAACTTGATCAT 954
 pkr_tit GTTAAATATAATAGCGACAAGGCAGAGCGTGAAGTAAAAGCATTGGCAGAACTTGATCAT 951
 pkr_owl GTTAAATATAATAGCAACAAGGTGGAGCGTGAAGTAAAAGCATTGGCAGAACTTGATCAT 957
 pkr_tam GTTAAATATAATAGCGACAAGGCAGAGCGTGAAGTAAAAGCATTGGCAGAACTTGATCAT 954
 pkr_mar GTTAAATATAATAGCGACAAGGCAGAGCGTGAAGTAAAAGCATTGGCAGAACTTGATCAT 954
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pkr_hum GTAAATATTGTTCACTACAATGGCTGTTGGGATGGATTTGATTATGATCCTGAGACCAGT 1011
 pkr_chi GTAAATATTGTTCACTACAATGGCTGTTGGGATGGATTTGATTATGATCCTGAGACCAGT 1011
 pkr_bon GTAAATATTGTTCACTACAATGGCTGTTGGGATGGATTTGATTATGATCCTGAGACCAGT 1011
 pkr_gor GTAAATATTGTTCACTACAATGGCTGTTGGGATGGAGTTGATTATGATCCTGAGACCAGT 1011
 pkr_ora GTAAATATTGTTTCGCTACAATGGCTGTTGGGATGGAATTGATTATGATCCTGAGACCAGT 1011
 pkr_agi GTAAATATTGTTAAGTACAATGGCTGTTGGGATGGATTTGATTATGATCCTGAGACCAGT 1011
 pkr_wcg GTAAATATTGTTAAGTACAATGGCTGTTGGGATGGATTTGATTATGATCCTGAGACCAGT 1011
 pkr_isi GTAAATATTGTTAAGTACAATGGCTGTTGGGATGGATTTGATTATGATCCTGAGACCAGT 1011
 pkr_smg GTAAATATTGTTCACTACCATGGCTGTTGGGATGGACTTGATTATGATCCTGAGATCAGT 1008
 pkr_rhe GTAAATATTGTTCACTACAATGGCTGTTGGGATGGACTTGATTATGATCCTGAGATCAGT 1008
 pkr_tal GTAAATATTGTTCACTACAATGGCTGTTGGGATGGACTTGATTATGATCCTGAGATCAGT 1008
 pkr_pat GTAAATATTGTTCACTACAATGGCTGTTGGGATGGACTTGATTATGATCCTGAGATCAGT 1008
 pkr_agm GTAAATATTGTTCACTACAATGGCTGTTGGGATGGACTTGATTATGATCCTGAGATCAGT 1008
 pkr_flf GTAAATATTGTTCACTACAATGGCTGTTGGGATGGACTTGATTATGATCCTGAGATCAGT 1008
 pkr_col GTAAATATTGTTCACTACAATGGCTGTTGGGATGGACTTGATTATGATCCTGAGATCAGT 1008
 pkr_woo GTAAATATTGTTCACTACAATGGCTGTTGGGATGGATTTGATTATGATCCTGAGAGTGAT 1014
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 pkr_tit GTAAATATTGTTCACTACAATGGCTGTTGGGATGGAATTGATTATGATCCTGAGAGCAGT 1011
 pkr_owl GTAAATATTGTTCACTACAAAGGCTGTTGGGATGGATTTGATTATGATCCTGAGAACAGT 1017
 pkr_tam GTAAATATCGTTCACTACAATGGCTGTTGGGATGGATTTGATTATGATCCTGAGAGCGGT 1014
 pkr_mar GTAAATATTGTTCACTACAACGGCTGTTGGGATGGATTTGATTATGATCCTGAGAGCAGT 1014

***** ** * ***** * ***** * ***** * ***** * ***** *

pkr_hum GATGATTCCTTGAGAGCAGTGATTATGATCCTGAGAACAGCAAAAATAGTTCAAGG--- 1067
 pkr_chi GATGATGATCCTTGAGAGCAGTGATTATGATCCTGAGAACAGCAAAAATAGTTCAAGG--- 1067
 pkr_bon GATGATGATCCTTGAGAGCAGTGATTATGATCCTGAGAACAGCAAAAATAGTTCAAGG--- 1067
 pkr_gor GATGATTATCCTTGAGAGCAGTGATTATGATCCTGAGAACAGCAAAAATAGTTCAAGG--- 1067
 pkr_ora GCTTATGATCCTTGAGAGCAGTGATTATGATCCTGAGAACAGCAAAAATAGTTCAAGG--- 1067
 pkr_agi TCTTATGATCCTTGAGAGCAGTGATTATGATCCTGAGAACAGCAAAAATAGTTCAAGG--- 1067
 pkr_wcg TCTTATGATCCTTGAGAGTGATGATTATGATCCTGAGAACAGCAAAAATAGTTCAAGG--- 1067
 pkr_isi TCTTATGATCCTTGAGAGCGATGATTATGATCCTGAGAACAGCAAAAATAGTTCAAGG--- 1067
 pkr_smg GCTTATGATCCTTGAGAGCTCTGATTTGGATCCTGAGAGCCAAAAAATAGTTTAAAGGAAT 1068
 pkr_rhe GCTTATGAGCCTTGAGAGCCTGATTTTGGATCCTGAGAACCAAAAAAATAGTTTAAAGGAAT 1068
 pkr_tal GCTTATGATCCTTGAGAGCCCTGATTTTGGATCCTGAGAACCAAAAAAATAGTTTAAAGGAAT 1064
 pkr_pat GCTTATGATCCTTGAGAGCCCTGATTTTGGATCCTGAGAACCAAAAAAATAGTTTAAAGGAAT 1064
 pkr_agm GCTTATGATCCTTGAGAGCCCTGATTTTGGATCCTGAGAACCAAAAAAATAGTTTAAAGGAAT 1064
 pkr_flf GCTTATGATGCTTGAGAGCCCTGATTATGATCCTGAGAACATCAAAAATAGTTTAAAGGAAT 1064
 pkr_col GCTTATGATCCTTGAGAGCCCTGATTATGATCCTGAGAACAGCAAAAATAGTTTAAAGGAAT 1064
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 pkr_tit AATTATGATCCTTGAGAGCAATGATTATGATCCTGAGAACAGCAAAAATAATTCAAGA--- 1073
 pkr_owl GATTATGATCCTTGAGAGCAGTGATTATGATCCTGAGAACAGCAAAAATAATTCAAGA--- 1070
 pkr_tam GATTATGATCCTTGAGAGCGGTGATTATGATCCTGAGAACAGCAAAAATAATTCAAGA--- 1070
 pkr_mar * ** ***** ***** ***** * ***** ** ***

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pk_r_hum -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1116
pk_r_chi -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1116
pk_r_bon -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1116
pk_r_gor -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1116
pk_r_ora -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1116
pk_r_agi -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1116
pk_r_wcg -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1116
pk_r_isi -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1116
pk_r_smg TTTTATACCCAGATCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGAAGAAGGG 1128
pk_r_rhe TTTTATACCCAGATCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGAAGACGGG 1128
pk_r_tal -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGAAAAAGGG 1113
pk_r_pat -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGAAAAAGGG 1113
pk_r_agm -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGAAAAAGGG 1113
pk_r_flf -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGAAAAAGGG 1113
pk_r_col -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGAAAAAGGG 1113
pk_r_woo -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1119
pk_r_spi -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1119
pk_r_tit -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1116
pk_r_owl -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1122
pk_r_tam -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1119
pk_r_mar -----TCAAAGACTAAGTGCCTTTTCATCCAAATGGAATTCTGTGATAAAGGG 1119
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pk_r_hum ACCTTGGAACAATGGATTGAAAAAAGAAGAGGCGAGAAACTAGACAAAGTTTTGGCTTTG 1176
pk_r_chi ACATTGGAGCAATGGATTGAAGATAGAAGAGGCAAGAAACTAGACAAAGTTTTGGCTTTG 1176
pk_r_bon ACATTGGAGCAATGGATTGAAGATAGAAGAGGCAAGAAACTAGACAAAGTTTTGGCTTTG 1176
pk_r_gor ACATTGGAGCAATGGATTGAAAAAAGAAGAGGCGAGAAACTAGACAAAGTTTTGGCTTTG 1176
pk_r_ora ACATTGGAGCAATGGATTGATAATACAAGAGGCAAGAAACTAGACAAAGTTTTGGCTTTG 1176
pk_r_agi ACATTGGAGCAATGGATTGACAATAGAAGAGGCAAGAACTAGACAAAGTTTTGGCTTTG 1176
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pk_r_isi ACATTGGAGCAATGGATTGACAATAGAAGAGGCAAGAAACTAGACAAAGTTTTGGCTTTG 1176
pk_r_smg ACATTGGAGAAATGGCTTGAAGATAGAAGAGGCAAGAAACTAGACAAAGTTTTGGCTTTG 1188
pk_r_rhe ACATTGGAGGACTGGCTTGATCGTAGAAAAGGCAAGAACTAGACAAAGTTTTGGCTTTG 1188
pk_r_tal ACATTGGAGGAATGGATTGAAGATAGAAGAGGCAAGAAACTAGACAAAGTTTTGGCTTTG 1173
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pk_r_col ACATTGGAGGAATGGATTGAAGATAGAAGAGGCAAGAAACTAGACAAAGTTTTGGCTTTG 1173
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pk_r_owl ACATTGGAGCAATGGATTGACGACAGAAGAGGCAAGAACTAGACAAAGTTTTGTCTTTG 1182
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pk_r_mar AACTGGAGCAATGGATTGAAGACAGAAGAGGCAAGAAACTAGACAAAGTTTTGTCTTTG 1179
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pkr_hum GAACTCTTTGAACAAATAACAAAAGGGGTGGATTATATACATTCAAAAAATTAATTCAT 1236
 pkr_chi GAACTCTTTGAACAAATAACAAAAGGGGTGGATTATATACATTCAAAAAATTAATTCAT 1236
 pkr_bon GAACTCTTTGAACAAATAACAAAAGGGGTGGATTATATACATTCAAAAAATTAATTCAT 1236
 pkr_gor GAACTCTTTGAACAAATAACAAAAGGGGTGGATTATATACATTCAAAAAATTAATTCAT 1236
 pkr_ora GAACTCTTTGAACAAATAACAAAAGGGGTGGATTATATACATTCAAAAAATTAATTCAC 1236
 pkr_agi GAATTCCTTTGAACAAATAACAAAAGGAGTGGATTATATACATTCAAAAAATTAATTCAT 1236
 pkr_wcg GAATTCCTTTGAACAAATAACAAAAGGGGTGGATTATATACATTCAAAAAATTAATTCAT 1236
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 pkr_smg GAACTCTTTGAACAAATAACAAAAGGGTGGATTATATACATTCAAAAAATATAATTCAT 1248
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 pkr_woo GAATTCCTTTGAACAAATAACAACAGGGGTAGATTATATACATTCAAAAAATTAATTCAT 1239
 pkr_spi GAATTCCTTTGAACAAATAACAACAGGGGTAGATTATATACATTCAAAAAATTAATTCAT 1239
 pkr_tit GAATTCCTTTGAACAAATAACAACAGGGGTAGATTATATACATTCAAAAAATTAATTCAT 1236
 pkr_owl GAATTCCTTTGAACAAATAACAACAGGGGTAGATTATATACATTCAAAAAATTAATTCAT 1242
 pkr_tam GAATTCCTTTGAACAAATAACAACAGGGGTAGATTATATACATTCAAAAAATTAATTCAT 1239
 pkr_mar GAATTCCTTTGAACAAATAACAACAGGGGTAGATTATATACATTCAAAAAATTAATTCAT 1239
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pkr_hum AGAGATCTTAAGCCAAGTAATATATTCTTAGTAGATACAAAACAAGTAAAGATTGGAGAC 1296
 pkr_chi AGAGATCTTAAGCCAAGTAATATATTCTTAGTAGATACAAAACAAGTAAAGATTGGAGAC 1296
 pkr_bon AGAGATCTTAAGCCAAGTAATATATTCTTAGTAGATACAAAACAAGTAAAGATTGGAGAC 1296
 pkr_gor AGAGATCTTAAGCCAAGTAATATATTCTTAGTAGATACAAAACAAGTAAAGATTGGAGAC 1296
 pkr_ora AGAGATCTTAAGCCAAGTAATATATTCTTAGTAGATACAAAACAAGTAAAGATTGGAGAC 1296
 pkr_agi AGAGATCTTAAGCCAAGTAATATATTCTTAGTAGATACAAAACAAGTAAAGATTGGAGAC 1296
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 pkr_isi AGAGATCTTAAGCCAAGTAATATATTCTTAGTAGATACAAAACAATAAAGATTGGAGAC 1296
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 pkr_owl AGAGATCTTAAGCCAAGTAATATATTCTTAGTAGATATAAAAACAATAAAGATTGGAGAC 1302
 pkr_tam AGAGATCTTAAGCCAAGTAATATATTCTTAGTAGATACAAAACAATAAAGATTGGAGAC 1299
 pkr_mar AGAGATCTTAAGCCAAGTAATATATTCTTAGTAGATACAAAACAATAAAGATTGGAGAC 1299

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pkr_hum      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTTTGAAACATCA 1476
pkr_chi      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTTTGAAACATCA 1476
pkr_bon      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTTTGAAACATCA 1476
pkr_gor      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTTTGAAACATCA 1476
pkr_ora      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGATACTGCTTCTGAAACAGCA 1476
pkr_agi      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCACGTATGTGACACTGCTTCTGAAACAGCA 1476
pkr_wcg      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTATGAAACAGCA 1476
pkr_isi      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTATGAAACAGCA 1476
pkr_smg      GCTTTGGGGCTAATTCTTGCTGAACTTCTTTATGTATGTGACACTGCTTCCGAAACATCA 1488
pkr_rhe      GCTTTGGGGCTAATTCTTGCTGAACTTCTTTATGTATGTGACACTGCTTCCGAAACATTA 1488
pkr_tal      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTCCGAAACATCA 1473
pkr_pat      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTCCGAAACATCA 1473
pkr_agm      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTCCGAAACATCA 1473
pkr_flf      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTTCCGAAACATCA 1473
pkr_col      GCTTTGGGGCTAATTCTTGCTGAACTTCTTCATGTATGTGACACTGCTTTCCGAAACATCA 1473
pkr_woo      GCTTTGGGGCTAATTTTTGCGGAACCTTCTTCATGTATGTGACACTGCTTTGGAAACATCA 1479
pkr_spi      GCTTTGGGGCTAATTTTTGCTGAACTTCTTCATGTATGTGACACTGCTTTGGAAACATCA 1479
pkr_tit      GCTTTGGGGCTAATTTTTGCGGAACCTTCTTCATGTATGTGACACTGCTTCCGAAACATCA 1476
pkr_owl      GCTTTGGGGCTAATTTTTGCTGAACTTCTTCATGTATGTAACACTGCTTTGGAAACATCA 1482
pkr_tam      GCTTTGGGGCTAATTTTTGCTGAACTTCTTCATGTATGTGACACTGCTTTGGAAACATCA 1479
pkr_mar      GCTTTGGGGCTAATTTTTGCTGAACTTCTTCATGTATGTGACACTGCTTTGGAAACATCA 1479
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pkr_hum      AAGTTTTTCACAGACCTACGGGATGGCATCATCTCAGATATA---TTTGATAAAAAAGAA 1533
pkr_chi      AAGTTTTTCACAGACCTACGGGATGGCATCATCTCAGATATATTATTTGATAAAAAAGAA 1536
pkr_bon      AAGTTTTTCACAGACCTACGGGATGGCATCATCTCAGATATATTATTTGATAAAAAAGAA 1536
pkr_gor      AAGTTTTTCACAGACCTACGGGATGGCATCATCTCAGATATA---TTTGATAAAAAAGAA 1533
pkr_ora      AAGTTTTTCAAAGACCTACGGGATGGCATCATCTCAGATATA---TTTGATAAAAAAGAA 1533
pkr_agi      AAGTTTTTCACAGACCTACGGGATGGCATCATCTCAGATGTA---TTTGATAAAAAAGAA 1533
pkr_wcg      AAGTTTTTCACAGACCTACGGGATGGCATCATCTCAGATGTA---TTTGATAAAAAAGAA 1533
pkr_isi      AAGTTTTTCACAGACCTACGGGATGGCATCATCTCAGATGTA---TTTGATAAAAAAGAA 1533
pkr_smg      AAGCTTTTTCAAGACCTACGAGGTGGCATCATCTCAGATGTG---TTTGATAAAAGAGAA 1545
pkr_rhe      CAGCTTTTTCGAGACCTACGGGATGGCACCATCTCAGATGTG---TATGATAAAAGAGAA 1545
pkr_tal      AAGTTTTTCAAAGACCTACGGGATGGCACCATCTCAGATGTG---TTTGATAAAAGAGAA 1530
pkr_pat      AAGTTTTTCAAAGACCTACGGGATGGCACCATCTCAGATGTG---TTTGATAAAAGAGAA 1530
pkr_agm      AAGTTTTTCAAAGACCTACGGGATGGCACCATCTCAGATGTG---TTTGATAAAAGAGAA 1530
pkr_flf      GAGTTTTTCAAAGACCTACGGGATGGCGTCATCTCAGATGTG---TTTGATAAAAGAGAA 1530
pkr_col      GAGTTTTTCAAAGACCTACGGGATGGCGTCATCTCAGATGTG---TTTGATAAAAGAGAA 1530
pkr_woo      AAGTTTTTCAGAGACCTACGGGATGGCATCATCTCAGATATG---TTTGATAAACGAGAA 1536
pkr_spi      AAGTTTTTCACAGACCTACGGGATGGCATCATCTCAGATATG---TTTGATAAACGAGAA 1536
pkr_tit      AAGTTTTTCAGAGACCTACGGAATGGCATCATCTCAGATATG---TTTGATAACAAGAA 1533
pkr_owl      AAGTTTTTCGGAGACCTACGGAATGGTATCACCTCAGATATG---TTTGATAAACGAGAA 1539
pkr_tam      AAGTTTTTCACAGACCTACGGGATGGCATCATCTCAAATATG---TTTGATAAACGAGAA 1536
pkr_mar      AAGTTTTTCACAGACCTACGGGATGGCGTCATCTCAGATACG---TTTGACAAACGAGAA 1536
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pkr_hum AAAACTCTTCTACAGAAATTACTCTCAAAGAAAACCTGAGGATCGACCTAACACATCTGAA 1593
 pkr_chi AAAACTCTTCTACAGAAATTACTCTCAAAGAAAACCTGAGGATCGACCTAACACATCTGAA 1596
 pkr_bon AAAACTCTTCTACAGAAATTACTCTCAAAGAAAACCTGAGGATCGACCTAACACATCTGAA 1596
 pkr_gor AAAACCTTCTACAGAAATTACTGTCAAAGAAAACCTGAGGATCGACCTAACACATCTGAA 1593
 pkr_ora AAAACTCTTCTACAGAAATTACTCTCAAAGAAAACCTGAGGACCGACCTAACACATCTGAA 1593
 pkr_agi AAAACTCTTCTACAGAAATTACTCTCAAAGAAAACCTGAGGACCGACCTAACACATCTGAA 1593
 pkr_wcg AAAACTCTTCTACAGAAATTACTCTCAAAGAAAACCTGAGGACCGACCTAACACATCTGAA 1593
 pkr_isi AAAACTCTTCTGCAGAAATTACTCTCAAAGAAAACCTGAGGACCGACCTAACACATCTGAA 1593
 pkr_smg AAATCTCTTCTAGAGAAATTACTCTCAAAGAGACCTGAGGACCGACCTAACACATCTGAA 1605
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 pkr_tal AAAACTCTTCTAGAGAAATTACTCTCAAAGAAAACCTGAGGACCGACCTAACACATCTGAA 1590
 pkr_pat AAAACTCTTCTAGAGAAATTACTCTCAAAGAAAACCTGAGGACCGACCTAACACATCTGAA 1590
 pkr_agm AAAACTCTTCTAGAGAAATTACTCTCAAAGAAAACCTGAGGACCGACCTAACACATCTGAA 1590
 pkr_flg AAAACTCTTCTAGAGAAATTACTCTCAAAGAAAACCTGAGGACCGACCTAACACATCTGAA 1590
 pkr_col AAAACTCTTCTAGAGAAATTACTCTCAAAGAAAACCTGAGGACCGACCTAACACATCTGAA 1590
 pkr_woo AAAACTCTTCTACGAAAATTACTCTCAAAGAAAACCTGAGGACCGCCCTAACACATCTGAA 1596
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 pkr_owl AAAACTCTTCTACGAAAATTACTCTCAGAGAAAACCTGAGGACCGACCTAACACATCTGAA 1599
 pkr_tam AAAACTCTTCTACGAAAATTACTCTCAAAGAAAACCTGAGGACCGACCCAACACATCTGAA 1596
 pkr_mar AAAACTCTTCTACGAAAATTACTCTCAAAGAAAACCTGAGGACCGACCTAACACATCTGAA 1596
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pkr_hum ATACTAAGGACCTTGACTGTGTGGAAGAAAAGCCCAGAGAAAAATGAACGACACACATGT 1653
 pkr_chi ATACTAAGGACCTTGACTGTGTGGAAGAAAAGCCCAGAGAAAAATGAACGACACACATGT 1656
 pkr_bon ATACTAAGGACCTTGACTGTGTGGAAGAAAAGCCCAGAGAAAAATGAACGACACACATGT 1656
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 pkr_flg ATACTAAGCACCTTGACTACGTGGAAGAAAATCCCAGAGAAAAAGGAACGACATACATGT 1650
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 pkr_woo ATACTAAGCACCTTGACTATATGGAAAAAAACC AAGAGAAAAAGGAACGAAAACAGTGT 1656
 pkr_spi ATACTAAGCACCTTGACTATATGGAAAAAAACC AAGAGAAAAAGGAACGAAAACACATGT 1656
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 pkr_tam ATACTAAGCACCTTGCTATGTGGAAAAAAACC AAGAGAAAAAGGAACGAAAACACATAT 1656
 pkr_mar ATACTAAGCACCTTGCTATGTGGAAAAAAACC AAGAGAAAAATGAACGAAAACACATAT 1656
 ***** ***** ** ***** *** ** ***** * * ** * *****

pk_r_hum	TAG 1656
pk_r_chi	TAG 1659
pk_r_bon	TAG 1659
pk_r_gor	TAG 1656
pk_r_ora	TAG 1656
pk_r_agi	TAG 1656
pk_r_wcg	TAG 1656
pk_r_isi	TAG 1656
pk_r_smg	TAG 1665
pk_r_rhe	TAG 1665
pk_r_tal	TAG 1653
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pk_r_col	TAG 1653
pk_r_woo	TAG 1659
pk_r_spi	TAG 1659
pk_r_tit	TAG 1656
pk_r_owl	TAG 1650
pk_r_tam	TAG 1659
pk_r_mar	TAG 1659

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pkr_hum      CASGVHGPEGFHYKCKMGQKEYSIGTGSTKQEAKQLAAKLAYLQI-LSEETSVKSDYLSS 179
pkr_chi      CASGVHGPEGFHYKCKMGQKEYSIGTSSTKQEAKQLAAKLAYLQI-LSEETSVKSDYLSS 179
pkr_bon      CASGVHGPEGFHYKCKMGQKEYSIGTSSTKQEAKQLAAKLAYLQI-LSEETSVKSDYLSS 179
pkr_gor      CASGVHGPEGFHYKCKMGQKEYSIGTGSTKQEAKQLAAKLAYLQI-VSEETSVKSDYLSS 179
pkr_ora      CASGVHGLEGFHYKCKMGQKEYSIGTGSTKQEAKQLAAKFAYLQI-LSEESSVKSDSMSS 179
pkr_agi      CGWGMHGTGKFHYKCKMGQKEYSIATGSTKQEAKQLAAKLAYVQI-LSEDTSVKSDSMSS 179
pkr_wcg      CVSGVHGPKGFHYKCKMGQKEYSIGTGSTKQEAKQLAAKLAYVQI-LSEDTSVKSDSMSS 179
pkr_isi      CGWGVHGPKGFHYKCKMGQKEYSIATGSTKQEAKQLAAKLAYVQI-LSEDTSVKSDSMSS 179
pkr_smg      CTSGVHGPEGFHYKCKIGDKEYGIGTGSSKQEAKQLAAKLALLEI--SEETSVKPDMSMP 178
pkr_rhe      CTSGVHGPEGFHYKCKIGDKEYGIGTGSSKQEAKQLAAKLALLEI--SEETSVKPDMSMP 178
pkr_tal      CTLGVHGPEGFHYKCKIGDKEYSIGTGSTKQEAKQLAAKLALLEI--SEETSVKPDMSMP 178
pkr_pat      CTSGVHGPEGFHYKCKIGEKEYSIGTGSTKQEAKQLAAKLALLEI--SEETSVKPDMSMP 178
pkr_agm      CTSGVHGPEGFHYKCKIGEKEYSIGTGSTKQEAKQLAAKLALLEI--SEETSVKPDMSMP 178
pkr_flf      CISGVHGPEGFHYKCKMGQKEYSIGTGSTKQEAKQLAAKFALFEI--SKETSVKPDMSMP 178
pkr_col      CISGVHGPEGFHYKCKMGQKEYSIGTGSTKQEAKQLAAKFALFEI--SKETSVKPDMSMP 178
pkr_woo      CASGLNGPEGFHYKCKVQKEYGIGTGSTKQEAKQLAAKLAYLQIHKSEETSVKADSISS 180
pkr_spi      CVSGMNGPEGFHYKCKVQKEYGIGTGSTKQEAKQLAAKLAYLQIHKSEETSVKADSISS 180
pkr_tit      CASGVNGPEGFHYKCKVQKEYGIATGSTKQEAKQLAAKLAYLQIHKSEETSVKADSISS 179
pkr_owl      CASGVNPGAGFHYKCKVQKEYGIGTGSTKQEAKQMAAKLAYLQIHKSEETSVKADSISS 180
pkr_tam      CASGVNGPEGFHYKCKVQKEYGIGTGSTKQEAKQLAAKLAYLQIRKSEETSVKADSTSS 180
pkr_mar      CASGVNGPEGFHYKCKVQKEYGIGTGSTKQEAKQLAAKLAYLQIHKSEETSVKADSTSS 180
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pkr_hum      GSFATTCEQSNSLV-TSTLASESSSEGFDSADTSEINSNSDSLNS-SLLMNGLRNNQRK 238
pkr_chi      GSFATTCDQSNSLV-TSTLASESSSEGFDSADTSEINSNSDSLNS-SLLMNGLRNNQRK 238
pkr_bon      GSFATTCDQSNSLV-TSTLASESSSEGFDSADTSEINSNSDSLNS-SLLMNGLRNNQRK 238
pkr_gor      GSFATTCDQSNSLV-TSTLASESSSEGFDSADTSEINSNSDSLNS-SLLMNGLRNNQRK 238
pkr_ora      GYFAATCDQSNCLV-TSTLGSESSSEDFSDTSEINSNSDSLKN-SLLMNGLRNNQRK 238
pkr_agi      GSFAATCDQSSSLV-TSTLASASSSEGFDSADTSEINSNSDSLNN-SLLMNGLRNNQRK 238
pkr_wcg      GSFAATCDQSSSLV-TSTLASASSSEGFDSADTSEINSNSDSLNN-SLLMNGLRNNQRK 238
pkr_isi      DSFAATCDQSSSLV-TSTLASASSSEGFDSADTSEINSNSDSLNN-SLLMNGLRNNQRK 238
pkr_smg      GSFAATCDQSNNPLV-NNSLASESSSESDVPADTSEINSNSSSLHI-SSLFTNGLRNNQRK 237
pkr_rhe      GSFAATCDQSNNPLV-NNSLASESSAESDVSADTSEINSKSGSLHI-SSLFTNGLRNNQRK 237
pkr_tal      GSFAATCDQSNNPLV-NNSLASESSSENDVSDTSEINSNSGSLNN-SSLFTNGLRNNQRK 237
pkr_pat      GSFAAMCDQSNNPLV-NNSLASESSSENDVSDTSEINSNSGSLNK-SSLFTNGLRNNQRK 237
pkr_agm      GSFAATCDQSNNPLV-NNSLASESSSENDVSDTSEINSNSGSLNK-SSLFTNGLRNNQRK 237
pkr_flf      GSFAATCDQSNNPLV-NNSLASESSSEGDVSDTSEINSNSGSLNN-SSLFTNGLRNNQKK 237
pkr_col      GSFAATCDSPSNPLV-NNSLADSSSESDVSDTSEINSNSGSLNN-SSLFTNGLRNNQKK 237
pkr_woo      VSFTPMCDIQNNSIV-TSTLASESLPEGGFSADTSEINCNN-SLNNCSFVSVNGLRNNQRK 239
pkr_spi      VSFTPMCDIQNNSFV-TSTLASESLPESGFSADTSEINCNN-SLNNCSLSMNGLRNNQRK 239
pkr_tit      GSFAPVSDIQNNSLV-TSTLASEPTQSSFSADTSEINCNN-SLNNCSLSMNGLRNNQRK 238
pkr_owl      GAFTPVCDIQNNSVTTSTLASESSPESSFSADTSEITCNN-SLNNCSLSMNGLRNNQRK 240
pkr_tam      VSFTPVCDIQNNPLV-TSTLASESSPESSFSADTSEINCNN-SLNNCSLSMNGLRNNQKK 239
pkr_mar      VSFTPVCDIQNNPLV-TSTLASESSPESSFSADTSEINFNN-SLNNCSLSMNGLRNNQRK 239
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pkr_hum      ---SKTKCLFIQMEFCDKGTLEQWIEKRRGEKLDKVLALELFEQITKGVVDYIHSKKLIHR 413
pkr_chi      ---SKTKCLFIQMEFCDKGTLEQWIEDRRGKKLDDKVLALELFEQITKGVVDYIHSKKLIHR 413
pkr_bon      ---SKTKCLFIQMEFCDKGTLEQWIEDRRGKKLDDKVLALELFEQITKGVVDYIHSKKLIHR 413
pkr_gor      ---SKTKCLFIQMEFCDKGTLEQWIENRRGEKLDKVLALELFEQITKGVVDYIHSKKLIHR 413
pkr_ora      ---SRTKCLFIQMEFCDKGTLEQWIDNTRGKKLDDKVLALELFEQITKGVVDYIHSKKLIHR 413
pkr_agi      ---SKTKCLFIQMEFCDKGTLEQWIDNRRGKLNDDKVLALELFEQITKGVVDYIHSKKLIHR 413
pkr_wcg      ---SKTKCLFIQMEFCDKGTLEQWIDNRRGKKLDDKVLALELFEQITKGVVDYIHSKKLIHR 413
pkr_isi      ---SKTKCLFIQMEFCDKGTLEQWIDNRRGKKLDDKVLALELFEQITKGVVDYIHSKKLIHR 413
pkr_smg      IPRSKTKCLFIQMEFCEEGLTEKWLEDRRGKKLDDKVLALELFEQITKGLDYIHSKNIHR 417
pkr_rhe      IPRSKTKCLFIQMEFCEDGTLEDWLDRRGKELDDKVLALELFEQITKGLDYIHSKNIHR 417
pkr_tal      ---SKTKCLFIQMEFCEKGTLEEWIEDRKGKKLDDKVLALELFEQITKGLDYIHSKNIHR 412
pkr_pat      ---SKTKCLFIQMEFCEKGTLEEWIEDRKGKKLDDKVLALELFEQITKGLDYIHSKNIHR 412
pkr_agm      ---SKTKCLFIQMEFCEKGTLEEWIEDRKGKKLDDKVLALELFEQITKGLDYIHSKNIHR 412
pkr_flf      ---LTKCLFIQMEFCEKGTLEQWIENRRGEKLDKVLALELFEQITKGVVDYIHSKNIHR 412
pkr_col      ---SKTKCLFIQMEFCEKGTLEEWIEDRRGKKLDDKVLALELFEQITKGVVDYIHSKNIHR 412
pkr_woo      ---STTKCLFIQMEFCDKGTLEQWIEDRRGKKLDDKALSLEFFEQITTGVDYIHSKNIHR 414
pkr_spi      ---STTKCLFIQMEFCDKGTLEQWIEDRRGKKLDDKILSLEFFEQITTGVDYIHSKNIHR 414
pkr_tit      ---STANCLFIQMEYCDKGTLEQWIEDRRGKKLDDKVLSEFFEQITTGVDYIHSKNIHR 413
pkr_owl      ---STTKCLFIQMEFCDKGTLEQWIDRRGKELDDKVLSEFFEQITTGVDYIHSKNIHR 415
pkr_tam      ---STTKCLFIQMEFCDKGTLEQWIEDRRGKKLDDKVLSEFFEQITTGVDYIHSKNIHR 414
pkr_mar      ---STTKCLFIQMEFCDKGTLEQWIEDRRGKKLDDKVLSEFFEQITTGVDYIHSKNIHR 414
                :*:*****:*.:.****.*:~:  :*:~*** *:*~:*****.*:*****:~:***

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pkr_hum      DLKPSNIFLVDTKQVKIGDFGLVTSLNKNDGKRTRRSKGTLLRYMSPEQISSQDYGKEVDLYA 473
pkr_chi      DLKPSNIFLVDTKQVKIGDFGLVTSLNKNDGKRTRRSKGTLLRYMSPEQISSQDYGKEVDLYA 473
pkr_bon      DLKPSNIFLVDTKQVKIGDFGLVTSLNKNDGKRTRRSKGTLLRYMSPEQISSQDYGKEVDLYA 473
pkr_gor      DLKPSNIFLVDTKQVKIGDFGLVTSLNKNDGKRTRRSKGTLLRYMSPEQISSQDYGKEVDLYA 473
pkr_ora      DLKPSNIFLVDTKQVKIGDFGLVTSLTNDVQRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 473
pkr_agi      DLKPSNIFLVDTKQVKIGDFGLVTSLNKNDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 473
pkr_wcg      DLKPSNIFLVDTKQIKIGDFGLVTSLNKNDGKRTRSTGTLLRYMSPEQISSQDYGKEVDLYA 473
pkr_isi      DLKPSNIFLVDTKQIKIGDFGLVTSLKTDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 473
pkr_smg      DLKPSNIFLVDTNQIKIGDFGLATSLKNDVKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 477
pkr_rhe      DLKPSNIFLVDTKQIKIGDFGLATSLKNDVKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 477
pkr_tal      DLKPSNIFLVDTKQIKIGDFGLATSLKNDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 472
pkr_pat      DLKPSNIFLVDTKQIKIGDFGLATSLKNDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 472
pkr_agm      DLKPSNIFLVDTKQIKIGDFGLATSLKNDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 472
pkr_flf      DLKPSNIFLVDTKQIKIGDFGLATSLKNDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 472
pkr_col      DLKPSNIFLVDTKQIKIGDFGLATSLKNDGKRTRSTGTLLRYMSPEQISSQDYGKEVDLYA 472
pkr_woo      DLKPSNIFLVDTKQIKIGDFGLVTSLNKNDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 474
pkr_spi      DLKPSNIFLVDTKQIKIGDFGLVTSLNKNDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 474
pkr_tit      DLKPSNIFLVDTKQIKIGDFGLVTSLENDEKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 473
pkr_owl      DLKPSNIFLVDTKQIKIGDFGLVTSLNKNDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 475
pkr_tam      DLKPSNIFLVDTKQIKIGDFGLVTSLNKNDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 474
pkr_mar      DLKPSNIFLVDTKQIKIGDFGLVTSLNKNDGKRTRNTGTLLRYMSPEQISSQDYGKEVDLYA 474
                ***** :*:*****.*** .* *:~: . ** ***** * :*:*****

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pkr_hum LGLILAE LLHVCDTAFETSKFFFDLRDGIISDI-FDKKEK TLLQKLLSKKPEDRPNTSEI 532
 pkr_chi LGLILAE LLHVCDTAFETSKFFFDLRDGIISDILFDKKEK TLLQKLLSKKPEDRPNTSEI 533
 pkr_bon LGLILAE LLHVCDTAFETSKFFFDLRDGIISDILFDKKEK TLLQKLLSKKPEDRPNTSEI 533
 pkr_gor LGLILAE LLHVCDTAFETSKFFFDLRDGIISDI-FDKKEK TLLQKLLSKKPEDRPNTSEI 532
 pkr_ora LGLILAE LLHVCDTASETAKFFFDLRDGIISDI-FDKKEK TLLQKLLSKKPEDRPNTSEI 532
 pkr_agi LGLILAE LLHVCDTASETAKFFFDLRDGIISDV-FDKKEK TLLQKLLSKKPEDRPNTSEI 532
 pkr_wcg LGLILAE LLHVCDTAYETAKFFFDLRDGIISDV-FDKKEK TLLQKLLSKKPEDRPNTSEI 532
 pkr_isi LGLILAE LLHVCDTAYETAKFFFDLRDGIISDV-FDKKEK TLLQKLLSKKPEDRPNTSEI 532
 pkr_smg LGLILAE LLYVCDTASET SKLFQDLRGGIISDV-FDKREK S LLEKLLSKRPEDRPNTSEI 536
 pkr_rhe LGLILAE LLYVCDTASETLQ LFRDLRGGTISDV-YDKREK TLLKLLSKKPEDRPNTSEI 536
 pkr_tal LGLILAE LLHVCDTASET SKFFFDLRDGTISDV-FDKREK T LLEKLLSKKPEDRPNTSEI 531
 pkr_pat LGLILAE LLHVCDTASET SKFFFDLRDGTISDV-FDKREK T LLEKLLSKKPEDRPNTSEI 531
 pkr_agm LGLILAE LLHVCDTASET SKFFFDLRDGTISDV-FDKREK T LLEKLLSKKPEDRPNTSEI 531
 pkr_flf LGLILAE LLHVCDTAFETSEFFFDLRDGVISDV-FDKREK T LLEKLLSKKPEDRPNTSEI 531
 pkr_col LGLILAE LLHVCDTAFETSEFFFDLRDGVISDV-FDKREK T LLEKLLSKKPEDRPNTSEI 531
 pkr_woo LGLIFAE LLHVCDTALET SKFFFDLRDGIISDM-FDKREK TLLRLLSKKPEDRPNTSEI 533
 pkr_spi LGLIFAE LLHVCDTALET SKFFFDLRDGIISDM-FDKREK TLLRLLSKKPENRPNTSEI 533
 pkr_tit LGLIFAE LLHVCDTASET SKFFFDLRNGIISDM-FDKQE K TLLRLLSKKPGERPNTSEI 532
 pkr_owl LGLIFAE LLHVCNTALET SKFFGD LRNGITS DM-FDKREK TLLRLLSEKPEDRPNTSEI 534
 pkr_tam LGLIFAE LLHVCDTALET SKFFFDLRDGIISNM-FDKREK TLLRLLSKKPEDRPNTSEI 533
 pkr_mar LGLIFAE LLHVCDTALET SKFFFDLRDGVISDT-FDKREK TLLRLLSKKPEDRPNTSEI 533
 ****:****:***:** * * ::* ***. * * : :***:**:**:**:**:**:**:**:**:**:**

pkr_hum LRTLTVWKK SPEKNERHTC 551
 pkr_chi LRTLTVWKK SPEKNERHTC 552
 pkr_bon LRTLTVWKK SPEKNERHTC 552
 pkr_gor LRTLTVWKK SPEKNERHTC 551
 pkr_ora LSTLTVWKK SPEKNERHTC 551
 pkr_agi LSTLTVWKK SPEKNERHTR 551
 pkr_wcg LSTLTVWKK SPEKNERHTR 551
 pkr_isi LSTLTVWKK SPEKNERHTR 551
 pkr_smg LSTLTMWKK SPEKK-RHTC 554
 pkr_rhe LSTLTTWKK SPEKK-RHTY 554
 pkr_tal LSTLTTWKK SPEKKERHTC 550
 pkr_pat LSTLTTWKK SPEKKERHTC 550
 pkr_agm LSTLTTWKK SPEKKERHTC 550
 pkr_flf LSTLTTWKK IPEKKERHTC 550
 pkr_col LSTLTTWKK SPEKKERHTC 550
 pkr_woo LSTLTIWKK NQEKKERNTC 552
 pkr_spi LSTLTIWKK NQEKKERNTC 552
 pkr_tit LSTLTMWKK NP KKKELNTC 551
 pkr_owl LSTLAMWKK NP EEKE---- 549
 pkr_tam LSTLAMWKK HPEKNERNTY 552
 pkr_mar LSTLAMWKK HPEKNERNTY 552
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