Supplementary Information

Molecular dissection of human Argonaute proteins using DNA shuffling

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Supplementary Fig. 1 Additional characterization and validation of Ago2-3 constructs.

(a) Schematic alignment of human Ago2 and Ago3 proteins. Blue regions are unique to Ago2, and red to Ago3; gray are identical in both. (b) Western blot analysis of immunoprecipitated Ago proteins used for the RISC cleavage assay in **Fig. 1a**. Samples were taken before (cell lysate, CL) or after immunoprecipitation (IP). (c) Alignment (type assignment generated via Salanto) of 58 randomly chosen clones (horizontal bars, one each) after Ago2–3 DFS. Color code as in **a**. (d) Percentage of Ago2- or Ago3-derived amino acids in 58 sequenced Ago2–3 chimeras (calculated by the Salanto software). For better visualization, only residues unique to one of the two parents (21.2% of the total proteins) were included. (e) Representative Ago2–3 crossover event, defined as the first nucleotide distinct from the preceding reference sequence in chimera alignments to the two parents. (f) Salanto-based analysis of crossover frequencies in the 58 chimeric Ago2–3 clones from **c** on DNA and protein level. Note that Salanto follows a parsimonious rationale according to which it tries to minimize the number of crossovers in the chimeric sequence. (g) Frequency of Ago2– or Ago3-derived amino acids in the 58 chimeric Ago2–3 clones from **c** at every position where the two parental proteins differ from each other. (h) Tethering assay of λ N-fused Ago constructs (see **Fig. 4** for experimental details). Rlu, relative light units. *P* values were determined by Student's t-test (n=3). (i) Pilot experiment to assess the robustness of the RISC cleavage assays, using various amounts of Ago-IP input levels ($\frac{1}{2}$, $\frac{1}{2}$, or entire IP) and two different shRens. Western blots visualizing the range of Ago protein input levels in the corresponding samples are shown below. As indicated by the numbers, even an 8-fold variation in Ago input only translated into minor quantitative effects (26% at most) on target mRNA slicing. Notably, in all RISC cleavage assays in this paper, the experimental variation of Ago input levels was less than 8-fold.

Supplementary Figure 1 Grimm



Supplementary Fig. 2 Western blot analyses of immunoprecipitated Ago proteins used for RISC cleavage assays and Northern blotting (loading controls).

Samples were taken before (cell lysate, CL) or after immunoprecipitation (IP). (a) IP samples from RISC cleavage assay in Fig. 1e. (b) IP and CL samples from RISC cleavage assay in Fig. 2b and Northern blot in Fig. 2c. (c) IP and CL samples from RISC cleavage assay in Supplementary Fig. 3b and Northern blot in Supplementary Fig. 3c. (d) IP and CL samples from RISC cleavage assay in Supplementary Fig. 3d and Northern blot in Fig. 2d (shRen1). (e) IP samples from RISC cleavage assay in Fig. 4c and Northern blot in Supplementary Fig. 6a. (g) IP samples from RISC cleavage assay in Fig. 4d and Northern blot in Supplementary Fig. 6b.

Supplementary Figure 2 Grimm



Supplementary Fig. 3 Cooperative action of motifs I and II for small RNA duplex activation and target cleavage.

(a) Schemes depicting Ago2–3 mutants (color-coded according to wildtypes on top). (b) The shown mutants were tested in luciferase knockdown experiments (top) and RISC cleavage assays (bottom) using shRen3 as RNAi trigger. (c) Co-immunoprecipitated small RNAs (same samples as in **b** (bottom)) were analyzed by Northern blotting using a probe against the shRen3 antisense strand. (d–f) The indicated mutants were analyzed akin to **b**, using the shown different shRNAs or miR-122, respectively. (g,h) Northern blot analysis of small RNAs in IP samples (same as in **e**,f) using probes against the shRen3 antisense or sense strand (g), or against miR-122 or miR-122* (h). Comparable protein input levels for **e–h** were validated by Western blotting (bottom). U6 small nuclear RNA signals (from naive RNA spiked in before RNA extraction) served as loading control in all Northern blots. Blue (shRen3) or orange (miR-122) asterisks: high slicer activity; blue (shRen3) or orange (miR-122) circles: intermediate slicer activity. (i) Northern blot signals from **g**,**h** were quantified and ratios between sense / antisense strand or miR-122* / miR-122 were calculated relative to Ago2 (set to 1). See **g**,**h** for symbols.

Supplementary Figure 3 Grimm



Supplementary Figure 4 Grimm



Supplementary Fig. 5 Additional theoretical and experimental dissection of critical elements in Ago2-3.

(a) Superposition of Ago2–3 homology models. (b) Analysis of Ago3 mutants harboring complete motif II or only the loop structure from Ago2 (see alignment on top) in luciferase assays with either miR-122 or shRen3 (see **Fig. 1** for experimental details). Note that motif II in Ago2 contains two helices linked by a short loop, whereas Ago3 has to accomodate 8 additional amino acids within this region (see also **Fig. 3** and **Supplementary Fig. 7b**), which, according to our Ago3 model, partly occupy and obstruct the RNA channel. (c) Salt bridge potentially connecting Ago3 N and PIWI domains, which cannot occur in Ago2 according to our homology models. Also note that R678 is in the vicinity of D670 (not shown), which belongs to the catalytic tetrad. Interaction of R678 with D152 might therefore prevent D670 from efficiently joining the catalytic site in Ago3. Interestingly, R678 is only present in Ago3, potentially explaining the residual activity of mutant Ago2II₃. (d) miR-122-based luciferase knockdown experiments with Ago2–3 mutants in which we either aimed to destroy (Ago3I₂R678Q) or reconstitute (Ago2II₃Q677R) the potential salt bridge (Ago3R678Q, Ago2Q677R served as controls). No significant changes relative to Ago3I₂ (for Ago3I₂R678Q) or Ago2II₃ (Ago2II₃Q677R) were observed. However, the correct formation of this putative salt bridge might depend on adjacent residues and structures that are not captured by these mutants. n.s., non-significant. (e) Analysis of the performance of the Ago2E637A mutant with two perfectly (shRen1 and shRen3) and one imperfectly duplexed small residues were normalized to the YFP control).

Supplementary Figure 5 Grimm



Supplementary Fig. 6 Functional analysis of Ago1-4 hybrids.

(a,b) Immunoprecipitated Ago complexes from Hek293T cells co-transfected with YFP or Ago and shRen1 (a) or miR-122 (b) were analyzed by Northern blotting (same samples as used in the RISC cleavage assays in **Fig. 4 c,d**). See **Fig. 2** for experimental details. (c) Northern blot signals from a,b were quantified and ratios between sense and antisense strands, or miR-122* / miR-122, were calculated (relative to Ago2, set to 1). Blue (shRen3) or orange (miR-122) asterisks: high slicer activity; blue (shRen3) or orange (miR-122) circles: intermediate slicer activity. (d) Partial alignment of human Ago1–4 PIWI domains around the Ago2 E637 residue (red frame) which is fully conserved in all four human Agos. Evident is an N-terminal 10 aa insertion in Ago4 which we deleted to test whether it interferes with the function of the glutamate (see **e** for results). (e) Knockdown assays (co-transfection of miR-122-tagged *Renilla* luciferase, miR-122 expression plasmid as well as the indicated Ago constructs) showed that deletion of the 10 aa insertion did not reconstitute slicing ability in Ago4, neither in the wildtype context (Ago4_{DEDH-10aa}) nor after fusion of the altered Ago4 PIWI domain with the slicing-compatible N to MID domains from Ago2 (N₂P₂M₂P4_{DEDH-10aa}). This suggests that other, as-of-yet unknown sequence/structure elements in Ago4 PIWI cause the distinctive slicing deficiency of this Ago family member.

Supplementary Figure 6 Grimm

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Agoz	MISG-AGPALAPPAPPPPIQGIAFKPPPPRDFGISGRITKLQANFFEMDIPKIDIHIELDIKPEACPRKVINKEIVEHMV	/ 3
59	MEIGSAGPAGAQPLLMVPRKPGIGTSGRTIKLQANFFEMDIPKIDIIHIELDIKPEKCPRKVNREIVEHMV	/1
44	MYSG-AGPALAPPAPPPP1QGYAFKPPPRPDFGTSGRTIKLQANFFEMD1PK1D1YHYELD1KPDKCPRRVNREVVDSMV	79
2	MEIGSAGPAGAQPLLMVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLYEVDIKPDKCPRRVNREVVDSMV	71
88	MEIGSAGPAGAQPLLMVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLYEVDIKPDKCPRRVNREVVDSMV	71
113	MEIGSAGPAGAQPLLMVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLYEVDIKPDKCPRRVNREIVEHMV	71
37	MEIGSAGPAGAQPLLMVPRRPDFGTSGRTIKLQANFFEMDIPKIDIYHYELDIKPEKCPRRVNREVVDSMV	71
103	MYSG-AGPALAPPAPPPPIQGYAFKPPPRPDFGTSGRTIKLQANFFEMDIPKIDIYHYELDIKPEKCPRRVNREIVEHMV	79
13	MYSG-AGPALAPPAPPPPIOGYAFKPPPRPDFGTSGRTIKLOANFFEMDIPKIDIYHYELDIKPEKCPRRVNREVVDSMV	79
1	MEIGSAGPAGAOPLLMVPRRPGYGTMGKPIKLLANCFOVEIPKIDVYLYEVDIKPDKCPRRVNREVVDSMV	71
105	MEIGSAGPAGAÕPLLMVPRRPGYGTMGKPIKLLANCFÕVEIPKIDVYLYEVDIKPDKCPRRVNREVVDSMV	71
107	MEIGSAGPAGAOPLLMVPRRPGYGTMGKPIKLLANCFOVEIPKIDVYLYEVDIKPDKCPRRVNREVVDSMV	71
62	METGSAGPAGAÕPLLMVPRBPGYGTMGKPTKLLANCFÕVETPKTDVYLYEVDTKPDKCPRRVNREVVDSMV	71
Ago3	METGSAGPAGAOPLIMVPRPBGYGTMGKPTKILANCFOVETPKTDVYLYEVDTKPDKCPRBVNREVVDSMV	71
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2	QHFKVTIFGDRRPVIDGRRSLYTAMPLPIGRDRVELEVTLPGEG-RDRIFKVSIKWVSCVSLQALHDALSGRLPSVPFET	150
88	QHFKVTIFGDRRPVIDGRRSLYTAMPLPIGRDRVELEVTLPGEG-RDRIFKVSIKWVSCVSLQALHDALSGRLPSVPFET	150
113	QHFKTQIFGDRKPVFDGRKNLYTANPLPVATTGVDLDVTLPGEG-KDRIFKVSIKWVSCVSLQALHDALSGRLPSVPFET	150
37	QHFKVTIFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRPFKVSIKFVSRVSWHLLHEVLTGRTLPEPLEL	151
103	QHFKTQIFGDRKPVFDGRKNLYTAMPLPVATTGVDLDVTLPGEGGKDRPFKVSIKFVSRVSWHLLHEVLTGRTLPEPLEL	159
13	QHFKVTIFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRPFKVSIKFVSRVSWHLLHEVLTGRTLPEPLEL	159
1	QHFKVTIFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRPFKVSIKFVSRVSWHLLHEVLTGRTLPEPLEL	151
105	QHFKTQIFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRPFKVSIKFVSRVSWHLLHEVLTGRTLPEPLEL	151
107	OHFKVTIFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRPFKVSIKFVSRVSWHLLHEVLTGRTLPEPLEL	151
62	OHFKTOIFGDRKPVFDGRKNLYTAMPLPVATTGVDLDVTLPGEGGKDRPFKVSIKFVSRVSWHLLHEVLTGRTLPEPLEL	151
Ago3	OHFKYTIFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRPFKVSIKFVSRVSWHLLHEVLTGRTLPEPLEL	151
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Ago2	TOALDVVMRHLDSMRYTDVCRSFFTASFCCSNDLCCCREVWFCFHOSVRDSLWKMMLNTDVSATAFYKAODV	230
59		200
3.9		222
44		230
2		222
88	IQALDVVMRHLPSMXITPVGRSFFSAPEGIDHPLGGGREVWFGFHQSVRPAMMKMMLNIDVSATAFIKAQPV	222
113	IQALDVVMRHLPSMRYTPVGRSFFTASEGCSNPLGGGREVWFGFHQSVRPSLWKMMLNIDVSATAFYKAQPV	222
37	DKPISTNPVHAVDVVLRHLPSMRYTPVGRSFFSAPEGYDHPLGGGREVWFGFHQSVRPSLWKMMLNIDVSATAFYKAQPV	231
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1	DKPISTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	231
105	DKPISTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	231
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59	IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ	302
44	IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ	310
2	IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ	302
88	IOFMCEVLDIHNIDEOPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHOTFPLOLENGOTVERTVAO	302
113	IOFMCEVLDIHNIDEOPRPLTDSHRVKFTKEIKGLKVEVTHCGOMKRKYRVCNVTRRPASHOTFPLOOESGOTVECTVAO	302
37	IEFMCEVLDIHNIDEOPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHOTFPLOIENGOTVERTVAO	311
103	IOFMCEVLDIHNIDEOPRPLTDSHRVKFTKEIKGLKVEITHCGTMRRKYRVCNVTRRPASHOTFPLOLENGOTVERTVAO	319
13	IOFMCEVLDIHNIDEOPRPLTDSORVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHOTFPLOLENGOTVERTVAO	319
1	TEFVCEVLDFKSTEFOOKPLTDSHRVKFTKETKGLKVEVTHCGTMBRKYBVCNVTBRPASHOTFPLOLENGOTVEBTVAO	311
105	IOFMCEVLDIHNIDEOPRPLTDSHRVKFTKEIKGIKVEVTHCGTMRRKYRVCNVTRRDASHOTFPLOOFSCOTVERTVAC	311
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1	IFREKITLØLKIPHLPCLØVGØEØKHTILPLEVCNIVAGØRCIKKLTDNØTSTMIRATARSAPDRØEEISRLVRSANYET	391
105	IFREKYTLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISKLMRSASFNT	391
107	YFREKYTLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVRSANYET	391
62	YFREKYTLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVRSANYET	391
Ago3	YFREKYTLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVRSANYET	391

Supplementary Figure 7 Grimm

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Ago2 59 44 2 88 113 37 103 13 1 105 107 62 Ago3	DFYVREFGIMVKDEMTDVTGRVLQPFSILYGGRNKAIATEVQGVWDMRNKQFHTGIEIKVWAIACFAPQRQCTEVHLKSF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKWWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKWWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKWWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKWWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKWWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKWWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF DFFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF	470 462 470 462 462 462 471 479 479 471 471 471 471
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Ago2 59 44 2 88 113 37 103 13 1 105 107 62 Ago3	NVQRTTPQTLSNLCLKINVKLGGVNNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR NVQRTTPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVQRTTPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR	630 622 630 622 622 631 639 631 631 631 631
Ago2 59 44 2 88 113 37 103 13 1 105 107 62 Ago3	VQPRQE I IQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDYQPGITFIVVQKR VQRPRQE I IQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACIKLEKDYQPGITFIVVQKR VQRPRQE I IQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITFIVVQKR VQRPRQE I IQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITFIVVQKR VQRPRQE I IQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITFIVVQKR VQRPRQE I IQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITFIVVQKR VQRPRQE I IQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITYIVVQKR VQRPRQE I IQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITYIVVQKR	710 702 710 702 702 711 719 719 711 711 711 711
Ago2 59 44 2 88 113 37 103 13 1 105 105 107 62	HHTRLFCTDKNERVGKSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTY HHTRLFCADRTERVGRSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCADRTERVGRSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCTDKNERVGKSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQILTYQLCHTY HHTRLFCTDKNERVGKSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQILTYQLCHTY HHTRLFCTDKNERVGKSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQILTYQLCHTY HHTRLFCTDKNERVGKSGNIPAGTTVDTVTTITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNFFSSDELQILTYQLCHTY HHTRLFCDDKNERVGKSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCDDKNERVGRSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNFFSSDELQILTYQLCHTY HHTRLFCDRTERVGRSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNFFSSDELQILTYQLCHTY HHTRLFCDRTERVGRSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNFFSSDELQILTYQLCHTY HHTRLFCDRTERVGRSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNFFSSDELQILTYQLCHTY HHTRLFCDRTERVGRSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNFFSSDELQILTYQLCHTY HHTRLFCDRTERVGRSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNFFSSDELQILTYQLCHTY HHTRLFCDRTERVGRSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNFFSSDELQILTYQLCHTY HHTRLFCDRTERVGRSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNFFSSDELQILTYQLCHTY	790 782 790 782 782 782 791 799 799 791 791 791 791
Ago3	HHTRLFCADRTERVGRSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY	791

	PIWI	
Ago2	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA	859
59	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA	851
44	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA	859
2	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA	851
88	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA	851
113	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA	851
37	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA	860
103	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA	868
13	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA	868
1	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA	860
105	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA	860
107	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA	860
62	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA	860
Ago3	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA	860
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Ago2	MYSC-ACDALADDADDDDTOCYAFYDDDDDDFCTSCOTTKIOANFFFMDTDKTDTYUYFLDTKDFKCDDDWNDFTWFUMW	70
AG02		73
59	MEIGSAGPAGAOPLLMVPRPGIGTSGRTIRLOANFFEMDIPRIDIIHIELDIRPERCPRRVNREIVEHMV	/1
110	MEIGSAGPAGAQPLLMVPKRPGYGTMGKPIKLQANFFEMDIPKIDIYHYEVDIKPEKCPRRVNREIVEHMV	71
44	MYSG-AGPALAPPAPPPPIQGYAFKPPPRPDFGTSGRTIKLQANFFEMD <mark>I</mark> PKIDIYHYELDIKPDKCPRRVNREVVDSMV	79
78	MEIGSAGPAGAQPLLMVPRRPGYGTMGKPIKLLANFFEMDIPKIDIYHYELDIKPEKCPRRVNREIVEHMV	71
129	MYSG-AGPALAPPAPPPPIOGYAFKPPPRPDFGTSGRTIKLOANFFEMDIPKIDVYLYEVDIKPDKCPRRVNREVVDSMV	79
74	MYSG-AGPALAPPAPPPPTOGYAFKPPPRPDFGTSGRTTKLOANFFEMDTPKTDTYHYELDTKPEKCPRRVNREVVDSMV	79
2		71
4		71
82	MISG-AGPALAPPAPPPPIQGIAFRPPPRPDFGTSGRTIKLQANFFEMDIPKIDITHIELDIKPEKCPRKVNREIVEHMV	79
Ago3	MEIGSAGPAGAQPLLMVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLYEVDIKPDKCPRRVNREVVDSMV	71
	Motif	
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Ago2	OHF KTOTEGDRK PVFDGRKNT. YTAMPT. PTGRDKVET. EVTT. PGEG-KDRTEKVSTKWVSCVST.OAT. HDAT.SGRT. PSVPFET	158
59	OUF KUTTECDEK DUEDCEKNI VTAMETET CEDKUFT FUTTECEC-KDETEKUSTKWUSCUST OAT UDAT SCETESUDEFT	150
110		1 5 1
110	CHERICIE CONFERENCE CONFE	151
44	QHF KTQIF GDRKPVF DGRKNLITAMPLPIGRDKVELEVTLPGEG-KDRIFKVSIKWVSCVSLQALHDALSGRLPSVPF ET	128
78	QHFKTQIFGDRKPVFDGRKNLYTAMPLPIGRDKVELEVTLPGEG-KDRIFKVSIKWVSCVSLQALHDALSGRLPSVPFET	150
129	QHFKVTIFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRPFKVSIK <mark>W</mark> VSCVSLQALHDALSGRLPSVPFET	159
74	OHFKVTIFGDRRPVYDGKRSLYTANPLPVATTGVDLDVTLPGEGGKDRPFKVSIKWVSCVSLOALHDALSGRLPSVPFET	159
2	OHFKYTTFGDRRPVYDGKRSLYTAMPLPTGRDKVELEVTLPGEG-KDRTFKVSTKWVSCVSLOALHDATSGRLPSVPFET	150
82	OHEKTOTEGDBKDVEDGBKNTVTAMDIDIGBDKVELEVTIDGEG-KDBTEKVSTKWVSCVSLOALHDATSGBLDSVDFET	158
1002		151
Agos	QREAVITE GDAREVIDGARS LITARE LEVAILGVDLDVILEGEGGADREERVSTAFVSKVSWALLAREVITGAILEEFILL	151
	Motif I	
Ago2	IQALDVVMKHLPSMRYTPVGRSFFTASEGCSNPLGGGREVWFGFHQSVRPSLWKMMLNIDVSATAFYKAQPV	230
59	IQALDVVMRHLPSMRYTPVGRSFFTAPEGYDHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	222
110	IOALDVVMRHLPSMRYTPVGRSFFSAPEGYDHPLGGGREVWFGFHOSVRPSLWKMMLNIDVSATAFYKAOPV	223
44	TOALDVVMRHLPSMKYTPVGRSFFSAPEGYDHPLGGGREVWFGFHOSVRPAMWKMMLNTDVSATAFYKAOPV	230
70		222
100		222
129	IQALDVVMRHLPSMKITFVGRSFFSAPEGIDHPLGGGREVWFGFHQSVRPAMWRMMLNIDVSATAFIRAQPV	231
74	IQALDVVMRHLPSMKYTPVGRSFFTASEGCSNPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	231
2	IQALDVVLRHLPSMKYTPVGRSFFSAPEGYDHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	222
82	IQALDVVM <mark>R</mark> HLPSMRYTPVGRSFFSAPEGYDHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	230
Ago3	DKPISTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	231
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	PAZ	
Ago2	TERVCEVIDEKSTEROOKPITUSORVKETKETKGI, KVETTHCGOMKRKYRVCNVTRRPASHOTEPIOOESCOTVECTVAO	310
50		202
110		202
110	1EFVCEVLDFRS1EEQQRPLTDSQRVRF1RE1RGLRVEV1HCG1MRRAIRVCNV1RRPASHQ1FPLQLENGQ1VERIVAQ	303
44	IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKIKVCNVTRRPASHQTFPLQLENGQTVERTVAQ	310
78	IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ	302
129	IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQQESGQTVECTVAQ	311
74	IOFVCEVLDFKSIEEOOKPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHOTFPLOLENGOTVERTVAO	311
2	TOFMCEVID THNTDEOPROL TDSHRVKFTKETKGT, KVEVTHCGTMRRKYRVCNVTRRDASHOTFDT.OT, ENGOTVECTVAO	302
- 92	TOFMCEVIDTUNTDEODDDT TOSUDVKETKETKCI KVETTUCCOMKDKYDVCNVTDDDASUOTEDT OOFSCOTVECTVAO	310
1 go 2	TO ENCINE AND THAT DECODARY THE TREAT AND A DECOMPARTIES OF THE PROPERTY AND THE PROPERTY A	211
Agos	I QEMOLAND I MIDEQERE LIDSHKARFIKEIKOLKAEVINGUMAKAIKACHAIKAENGUFELQLEHGQIVEKIVAQ	211
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Ago2	IFADKHALVLKIPHLPCLQVGQEQKHTILPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISKLMRSASFNT	390
59	YFREKYTLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISRLVRSANYET	382
110	YFKDRHKLVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVRSANYET	383
44	YFREKYTLOLKYPHLPCLOVGOEOKHTYLPLEVCNIVAGORCIKKLTDNOTSTMIRATAR SAPDROEFISRLVR SANYFT	390
78	YFREKYTLÖLKYPHLPCLÖVGÖEÖKHTYLDLEVCNTVAGÖRCTKKLTDNÖTSTMTRATARSADDRÖFFTSPLVPSANYFT	382
129	VEVDUKTUT DVDUT DCT OVCOPCKUMVT DI EVCNTUA CODCTKKI MONOCCMIKA MADCA DDOGET CDT VDCA NVEM	201
129	IF ADARALY LATPHLY CLOVE GOLOGIANTI LE LEVONTVA GOLOTIKLI DNO ISIMILA TARSAPDA QEETSALVASANTET	201
14	IFRENTIEVENTPHEPCLOVGQEQKHTIEPLEVCNIVAGQRCIKKETDNQTSTMIKATARSAPDRQEEISREVRSANYET	391
2	YFKEKYTLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISRLVRSANYET	382
82	YFKDRHKIVIRYPHIPCLQVGQEQKHTYIPLEVCNIVAGQRCIKKITDNQTSTMIKATARSAPDRQEEISRIVRSANYET	390
Ago3	YFREKYTLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVRSANYET	391
Ago2	DPYVREFGIMVKDEMTDVTGRVLQPPSILYGGRNKAIATPVQGVWDMRNKOFHTGIEIKVWAIACFAPOROCTEVHLKSF	470
59	DEFVOEFOFKVRDEMAHVTGRVLPAPMLOYGGRNRTVATPSHGVWDMRGKÕFHTGVEIKMWAIACFATÕRÕCREETIKGF	462
110	DEFVOFFOFKVRDEMAHVTGRVIDADMIOVCCENETVATESHCVWDMPCKOFUTCVETKMWATACFATOPOCEFFTIKCF	463
11	DEVACEACEWID DEMALUY COULDA DALOY CONDAVIA DE CUCUMUM CACEUTICUE TAMANA TA CENTRO DE TURCE	170
11 70		4/0
18	DEF VOLE OF NVKDEMAHVTGRV LPAPMLOIGGRNRTVATPSHGVWDMRGROFHTGVEIRVWAIACFAPORQCTEVHLRSF	462
129	DFFVQEFQFKVRDEMAHVTGRVLFAFMLQYGGRNRTVATFSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILKGF	471
74	DPFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCTEVHLKSF	471
2	DPFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNKAIATPSHGVWDMRGKOFHTGIEIKVWAIACFAPOROCTEVHLKGF	462
82	DPFVOEFOFKVRDEMAHVTGRVLOPPSILYGGRNKA IATPVOGVWDMRNKOFHTGTETKVWA TACFAPOROCTEVHLKSF	470
Ago3	DPFVÖEFÖFKVRDEMAHVTGRVLPAPMLOYGGRNRTVATPSHGVWDMRGKÖFHTGVETKMWA TACFATÖRÖCREFTLKGF	471

	MID	
Ago2 59 110 44 78 129 74 2 82 Ago3	TEQLRKISRDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTVLGMATQCVQMK TDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTLLGMATQCVQMK TDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYSGLQLIIVILPGKTPVYAEVKRVGDTVLGMATQCVQVK TDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTLLGMATQCVQVK TDQLRKISRDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTLLGMATQCVQVK TDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTLLGMATQCVQVK TDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTLLGMATQCVQVK TDQLRKISRDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTLLGMATQCVQVK TDQLRKISRDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTLLGMATQCVQVK TDQLRKISRDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYSGLQLIVVILPGKTPVYAEVKRVGDTLLGMATQCVQVK TDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYSGLQLIVVILPGKTPVYAEVKRVGDTLLGMATQCVQVK	550 542 550 542 551 551 551 551 550 551
Ago2 59 110 44 78 129 74 2 82 Ago3	NVQRTTPQTLSNLCLKINVKLGGVNNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR NVQRTTPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGVNNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCATVR NVQRTTPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVQRTTPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR NVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCATVR	630 622 623 630 622 631 631 622 630 631
Ago2 59 110 44 78 129 74 2 82 Ago3	PIWI VQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDYQPGITFIVVQKR VQRPQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITFIVVQKR VQQHRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITFIVVQKR VQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACISLEKDYQPGITFIVVQKR VQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACISLEKDYQPGITFIVVQKR VQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACISLEKDYQPGITFIVVQKR VQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACISLEKDYQPGITFIVVQKR VQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACISLEKDYQPGITFIVVQKR VQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACISLEKDYQPGITFIVVQKR VQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLYYELLAIREACISLEKDYQPGITFIVVQKR VQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITFIVVQKR VQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITYIVVQKR VQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITYIVVQKR VQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITYIVVQKR VQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDYQPGITYIVVQKR *	710 702 703 710 702 711 711 702 710 711
Ago2 59 110 44 78 129 74 2 82 Ago3	HHTRLFCTDKNERVGKSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTY HHTRLFCTDKNERVGKSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNRFSSDELQILTYQLCHTY HHTRLFCTDKNERVGKSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCADRTERVGRSGNIPAGTTVDTKITHPTEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCADRTERVGRSGNIPAGTTVDTKITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCADRTERVGRSGNIPAGTTVDTKITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCADRTERVGRSGNIPAGTTVDTKITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCADRTERVGRSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCTDKNERVGKSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCTDKNERVGKSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY HHTRLFCTDKNERVGKSGNIPAGTTVDTDITHPYEFDFYLCSHAGIQGTSRPSHYHVLWDDNCFTADELQLLTYQLCHTY	790 782 783 790 782 791 791 782 790 791
Ago2 59 110 44 78 129 74 2 82 Ago3	VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA859VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYFA851VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA852VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYFA859VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDPQALAKAVQHQDTLRTMYFA851VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDPQALAKAVQHQDTLRTMYFA851VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDPQALAKAVQHQDTLRTMYFA860VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDPQALAKAVQHQDTLRTMYFA860VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDPQALAKAVQHQDTLRTMYFA851VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDPQALAKAVQHQDTLRTMYFA851VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQHQDTLRTMYFA851VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQHQDTLRTMYFA859VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQHQDTLRTMYFA859VRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQHQDTLRTMYFA860	

Ago1		
Agoi	MEACOSCAAACAYI.DDI.OOVEOADDDDCICTWCKDIKIIANYFFVDIDKIDVYHYFVDIKDDKCDDDVNDFVVFYMV	77
Agoz	-MISGAGPALAPPAPPPPIQGIAFKPPPRPDFGTSGRTIKLQANFFEMDIPRIDIIHIELDIKPEKCPRKVNKEIVEHMV	19
Ago3	MEIGSAGPAGAQPLLMVPRRPGYGTMGKPIKLLANCFQVEIPKIDVYLYEVDIKPDKCPRRVNREVVDSMV	71
Ago4	MEALGPGPPASLFOPPRRPGLGTVGKPTRLLANHFOVOTPKIDVYHYDVDIKPEKRPRRVNREVVDTMV	69
#1	MEAL GDGD	69
# <u></u> 2		70
#3	-MISGAGPALAPPAPPPPIQGIAFKPPPRPDFGTSGRTIKLQANFFEMDIPKIDIIHIELDIKPEKCPRRVNREIVEHMV	19
#5	MEAGPSGAAAGAYLPPLQQVFQAPRRPGIGTVGKPIKLLANYFEVDIPKIDVYHYEVDIKPDKCPRRVNREVVEYMV	- 77
# 7	METGSAGPAGAOPLIMVPRRPGYGTMGKPTKLLANCFOVETPKTDVYLYEVDTKPDKCPRRVNREVVDSMV	71
#14		71
#14	MEIGSAGPAGAQPLLMVPRRPGIGISGRIIKLQANFFEMDIPKIDIIHIELDIKPEKCPRKVNREIVEHMV	/1
#31	-MYSGAGPALAPPAPPPPIQGYAFKPPPRPDFGTSGRTIKLQAN <mark>FFEMDI</mark> PKIDIYHYELDIKPEKCPRRVNREIVEHMV	79
#32	-MYSGAGPALAPPAPPPPIQGYAFKPPPRPDFGTSGRTIKLQANFFEMDIPKIDIYHYELDIKPEKCPRRVNREIVEHMV	79
#33	MEAGESGAAAGAYLEELOOVEOAERECTGTVGKETKILANYFEVETEKTDVYHYEVETKEDKCEREVNEEVVDSMV	77
#24		60
#34	MEALGEGEPASLE QFFRREGLGIVGRFIRLEANDE QVQ TFRIDVDIREERFRRVNREVVDIMV	09
#38	MEAGPSGAAAGAYLPPLQQVFQAPRRPGIGTVGKPIKLLANYFEVDIPKIDVYHYEVDIKPDKCPRRVNREVVEYMV	11
	Motif	
	Moti i	
	Ν	
Agol	QHFKPQIFGDRKPVYDGKKNIYTVTALPIGNERVDFEVTIPGEG-KDRIFKVSIKWLAIVSWRMLHEALVSGQIP	151
Ago2	QHFKTQIFGDRKPVFDGRKNLYTAMPLPIGRDKVELEVTLPGEG-KDRIFKVSIKWVSCVSLQALHDALSGRLPS	153
Ago3	OHEKVTIEGDBBPVYDGKBSLYTANDL DVATTGVDLDVTLPGEGGKDBPFKVSIKEVSBVSWHLLHEVLTGBTLPEDLEL	151
Agos		140
Ag04	RHF RMQ1F GDRQFG1DGRRNM11AHP LF1GRDRVDMEV1LFGEG-RDQ1FRV5VQWVSVSLQLLLEALAGHLN	142
#1	RHFKMQIFGDRQPGYDGKRNMYTAHPLPIGRDRVDMEVTLPGEG-KDQTFKVSVQWVSVVSLQLLLEALAGHLN	142
#3	QHFKTQIFGDRKPVFDGRKNLYTAMPLPIGRDKVELEVTLPGEG-KDRIFKVSIKWVSCVSLQALHDALSGRLPS	153
#5	OHEKPOTEGDEKPVYDGKKNTYTVTALPTCNERVDFEVTTPGEG-KDETEKVSTKWLATVSWEMTHEATVSGOTD	151
#7	CHEVER TECHNOLOGY DOLLAR AND LUX MACHINE DUME DE CANADA AND THE AND TH	151
ff /	QREAVITE ODKEPVIDGKESLITANE LEVATTGVDLDVTLPGEGGKDKEFKVSIKFVSKVSWHLLHEVLTGKTLPEPLEL	101
#14	QHFKTQIFGDRKPVFDGRKNLYTAMPLPIGRDKVELEVTLPGEG-KDRIFKVSIKWLAIVSWRMLHEALVSGQIP	145
#31	OHFKTOIFGDRKPVFDGRKNLYTAMPLPIGRDKVELEVTLPGEG-KDRIFKVSIKWVSCVSLOALHDALSGRIPS	153
#32	OHEKTOTECDERDUEDCERNITYTAMPT DICEDRUETEVTT DOEC - KDDTERUET WWOCKETAN HDAT SCOT DO	150
#32	QH RIQIF GDRRF VFDGRRNLIIAMFLFIGRDRVELEVILFGEG-RDRIFRVSIRWVSCVSLQALHDALSGRLFS	155
#33	QHFKVTIFGDRRPVYDGKKNIYTVTALPIGNERVDFEVTIPGEG-KDRIFKVSIKWLAIVSWRMLHEALVSGQIP	151
#34	RHFKMOIFGDROPGYDGKRNMYTAHPLPIGRDRVDMEVTLPGEG-KDOTFKVSVQWVSVVSLOLLLEALAGHLN	142
#38	OHEKPOTEGDEKEVEDGEKNI, YTAMPI, PTGEDKVELEVTI, PGEG-KDETEKVSTKWVSCVST, OATHDAT, SGELPS	151
#50		101
	Motif II	
	L1	
Ago1	VPLESVOALDVAMRHTASMRYTPVGRSFESPPEGYYHPLGGGREVWFGFHOSVRPAMWKMMINTDVSATAFYKAOPV	228
Ago2		220
Agoz	VPFEIIQALDVVMRHLPSMRIIPVGRSFFIASEGCSNPLGGGREVWFGFAQSVRPSLWAMMLNIDVSAIAFIRAQPV	230
Ago 3	DKPISTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	231
Ago4	EVEDDSVOALDVITRHLPSMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHOSVRPAMWNMMLNIDVSATAFYRAOPI	220
#1		220
#2		220
#3	VPFETIQALDVVMRHLPSMRITPVGRSFFTASEGCSNPLGGGREVWFGFHQSVRPAMWRMMLNIDVSATAFIRAQPV	230
#5	VPLESVQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	228
#7	DKPISTNPVHAVDVVLRHLPSMKYTPVGRSFFSAPEGYDHPLGGGREVWFGFHOSVRPAMWKMMLNIDVSATAFYKAOPV	231
#14		222
#11		222
#31	VPFETIQALDVVMRHLPSMRTTPVGRSFFTASEGCSNPLGGGREVWFGFHQSVRPSLWKMMLNIDVSATAFYKAQPV	230
#32	VPFETIQALDVVMRHLPSMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPSLWKMMLNIDVSATAFYKAQPV	230
#33	VPLGSVOALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHOSVRPAMWKMMLNTDVSATAFYKAOPV	228
#24		
#34	EVEDDSVQALDVII AND SMAILEVGASTESPEGIINELGGGAEVWEGENQSVAFAMWAMMANDVSAIAFIAAQEI	220
		220
#38	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	220 228
#38	VPFETIQ <mark>ALDVAM</mark> RHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	220 220 228
#38	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	220 228
#38	vpfetiqaldvamrhlasmrytpvgrsffsppegyyhplgggrevwfgfhqsvrpamwkmmlnidvsatafykaqpv PAZ	220 228
#38 D == 1	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ	220
#38 Agol	vpfetiqaldvamrhlasmrytpvgrsffsppegyyhplgggrevwfgfhqsvrpamwkmmlnidvsatafykaqpv PAZ Iefmcevldirnideqpkpltdsqrvrftkeikglkvevthcgqmkrkyrvcnvtrrpashqtfplqlesgqtvectvaq	220 228 308
#38 Ago1 Ago2	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQQESGQTVECTVAQ	220 228 308 310
#38 Ago1 Ago2 Ago3	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQQESGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGOTVERTVAO	220 228 308 310 311
#38 Ago1 Ago2 Ago3 Ago4	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ IEFMCEVLDININEOTKPLTDSQRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ	220 228 308 310 311 300
#38 Ago1 Ago2 Ago3 Ago4 #1	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQCESGQTVECTVAQ IQFMCEVLDINNIDEQTKPLTDSHRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ	220 220 228 308 310 311 300 300
#38 Ago1 Ago2 Ago3 Ago4 #1	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ	220 228 308 310 311 300 300
#38 Ago1 Ago2 Ago3 Ago4 #1 #3	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLDINNEQTKPLTDSQRVKFTKEIRGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIRNIDEQPKPLTDSQRVKFTKEIRGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ	220 228 308 310 311 300 300 310
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDINIDEQPRPLTDSHRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINIDEQPKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ	220 228 308 310 311 300 300 310 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLDINNIDEQPRPLTDSHRVKFTKEIRGLKVEVTHCGGMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQFRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IEFMCEVLDINNIDEQFKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IEFMCEVLDINNIDEQFKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IQFMCEVLDINNIDEQFRPLTDSHRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IQFMCEVLDINNIDEQFRPLTDSHRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ	220 228 308 310 311 300 310 310 308 311
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLDINIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINIDEQPRPLTDSHRVKFTKEIRGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINIDEQPRPLTDSRVKFTKEIRGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDINIDEQPRPLTDSHRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ	220 228 308 310 311 300 310 310 310 310 308 311
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #21	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ IQFMCEVLDININEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINIDEQPRPLTDSRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IQFMCEVLDINIDEQPRPLTDSHRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQCENGQAMECTVAQ	2220 228 308 310 311 300 300 310 308 311 302
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFMCEVLDIKSIEEQQKPLTDSQRVRFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDINIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINIDEQPKPLTDSQRVKFTKEIRGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IQFMCEVLDIHNIDEQPKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IQFMCEVLDIHNIDEQPKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ	220 228 308 310 311 300 300 310 308 311 302 310
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #31 #32	vpfetioaldvamrhlasmrytpvgrsffsppegyyhplgggrevwfgfhosvrpamwkmmlnidvsatafykaopv PAZ Iefmcevldirnideopkpltdsorvrftkeikglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iofmcevldirnideoprpltdsrvkftkeikglkvevthcgomkrkyrvcnvtrrpashotfplolengotvertvao Iefmcevldionineotkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvertvao Iefmcevldionineotkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvertvao Iefmcevldionineotkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengomectvao Iefmcevldionineotkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengomectvao Iefmcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvectvao Iefmcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefmcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao Ieffcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefvcevldfksieeokpltdsorvkftkeirglkveithcgomkrkyrvcnvtrrpashotfplolengotvectvao Iefvcevldfksieeokpltdsorvkftkeirglkveithcgomkrkyrvcnvtrrpashotfplolengomectvao Iefvcevldfksieeovkftkeitdsorvkftkeirglkveithcgomkrkyrvcnvtrrpashotfplolengomectvao Iefvcevldfksieeovkftkeikglkveithcgomkrkyrvcnvtrrpashotfplolengomectvao Iefvcevldfksieeovkftkeikglkveithcgomkrkyrvcnvtrrpashotfplolesgotvectvao	220 228 308 310 311 300 310 300 310 311 302 310 310
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33	vpfetioaldvamrhlasmrytpvgrsffsppegyyhplgggrevwfgfhosvrpamwkmmlnidvsatafykaopv PAZ Iefmcevld irnideopkpltdsorvkftkeikglkvevthcgomkrkyrvcnvtrrpashotfploesgotvectvao igfwcevld irnideoprpltdsrvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefmcevld ionineotkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfploesgotvectvao iefmcevld ionineotkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfploesgotvectvao iefmcevld ionineotkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfploesgotvectvao iefmcevld inideoprpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfploesgotvectvao iefmcevld inideoprpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfploesgotvectvao iefmcevld inideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfploesgotvectvao iefmcevld inideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksieeockpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfploesgotvectvao iefvcevldfksi	220 228 308 310 311 300 310 310 311 302 310 310 310 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLDININEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDINNIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENQCTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGTMRRKYRVCNVTRRPASHQTFPLQLENQCTVECTVAQ	220 228 308 310 310 300 310 310 310 310 310 310 310
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #30	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIRGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIRGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSHRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ IEFMCEVLDINNDEQTKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVERTVAQ IEFMCEVLDINNDEQTKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLDINNDEQTKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRCNVTRRPASHQTFPLQLENGQTVECTVAQ	220 228 308 310 311 300 300 310 308 311 302 310 310 308 300 310
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #31 #32 #33 #34 #38	vpfetioaldvamrhlasmrytpvgrsffsppegyyhplgggrevwfgfhosvrpamwkmmlnidvsatafykaopv PAZ Iefmcevldirnideopkpltdsorvrftkeikglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefmcevldirnideopkpltdsorvkftkeikglkveithcgomkrkyrvcnvtrrpashotfplolengotvertvao Iefmcevldionineotkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvertvao Iefmcevldionineotkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvertvao Iefmcevldirnideopkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvertvao Iefmcevldirnideopkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefmcevldirnideopkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefmcevldirnideopkpltdsorvkftkeirglkveithcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefmcevldirnideopkpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefvcevldfksieeookpltdsorvkftkeirglkveithcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefvcevldfksieeookpltdsorvkftkeirglkveithcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefvcevldfksieeookpltdsorvkftkeirglkveithcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefvcevldfksieeookpltdsorvkftkeirglkveithcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefvcevldfksieeookpltdsorvkftkeirglkveithcgomkrkyrvcnvtrrpashotfplolesgotvectvao Iefwcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvectvao Iefmcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvectvao Iefmcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvectvao Iefmcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvectvao Iefmcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvectvao Iefmcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvectvao Iefmcevldirnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengovectvao Iefmcevldirnideoprpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao	220 228 308 310 311 300 300 300 310 300 310 300 308 300 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38	vpfetioaldvamrhlasmrytpvgrsffsppegyyhplgggrevwfgfhosvrpamwkmmlnidvsatafykaopv PAZ Iefmcevld irnideopkpltdsorvkftkeikglkveuthggomkrkyrvcnvtrrpashotfplolesgotvectvao igfmcevld irnideoprpltdsrvkftkeikglkveuthggomkrkyrvcnvtrrpashotfplolengotvertvao iefmcevld ionineotkpltdsorvkftkeirglkvevthggomkrkyrvcnvtrrpashotfplolengoamectvao iefmcevld innideoprpltdsrvkftkeirglkvevthggomkrkyrvcnvtrrpashotfplolengoamectvao iefmcevld irnideoprpltdsrvkftkeirglkvevthggomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld innideoprpltdsrvkftkeirglkvevthggomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld irnideoprpltdsrvkftkeirglkvevthggomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld irnideoprpltdsrvkftkeirglkvevthggomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld irnideoprpltdsrvkftkeirglkvevthggomkrkyrvcnvtrrpashotfplolesgotvectvao iefvcevldfksieeookpltdsorvkftkeikglkveithggomkrkyrvcnvtrrpashotfplolesgotvectvao iefvcevldfksieeookpltdsorvkftkeikglkveithggomkrkyrvcnvtrrpashotfplolesgotvectvao iefvcevldfksieeookpltdsorvkftkeikglkveithggomkrkyrvcnvtrrpashotfplolesgotvectvao iefvcevldfksieeookpltdsorvkftkeikglkveithggomkrkyrvcnvtrrpashotfplolesgotvectvao iefwcevld innideoprpltdsrvkftkeikglkveithggomkrkyrvcnvtrrpashotfplolesgotvectvao iefwcevld innideoprpltdsrvkftkeikglkveithggomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld innideoprpltdsrvkftkeikglkveithggomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld innideoprpltdsrvkftkeikglkveithggomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld irnideoprpltdsrvkftkeikglkveithggomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld irnideoprpltdsrvkftkeikglkveithggmkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld irnideoprpltdsrvkftkeikglkveithggmkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld irnideoprpltdsrvkftkeikglkveithggmkrkyrvcnvtrrpashotfplolesgotvectvao	308 310 311 300 310 310 310 310 310 310 310
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38	vpfetioaldvamrhlasmrytpvgrsffsppegyyhplgggrevwfgfhosvrpamwkmmlnidvsatafykaopv DAZ Iefmcevld irnideopkpltdsorvkftkeikglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefvcevldfksieeookpltdsorvkftkeikglkvevthcgomkrkyrvcnvtrrpashotfplolengotvertvao iefmcevld innideoprpltdsbrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengoamectvao iefmcevld irnideoprpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengoamectvao iefmcevld irnideoprpltdsbrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengoamectvao iefmcevld irnideoprpltdsbrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengoamectvao iefmcevld irnideoprpltdsbrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvectvao iefmcevld irnideoprpltdsbrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvectvao ieffcevld irnideoprpltdsbrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengotvectvao iefvcevld irnideoprpltdsbrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengoamectvao iefvcevld frsieeookpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolengoamectvao iefvcevld frsieeookpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefvcevld frsieeookpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefvcevld frsieeookpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefvcevld frsieeookpltdsorvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld innideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld innideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld innideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld innideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld irnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld irnideoprpltdsrvkftkeirglkvevthcgomkrkyrvcnvtrrpashotfplolesgotvectvao iefmcevld irnideoproleprbltdsorvertvao	220 228 308 310 311 300 310 310 310 310 310 308 300 308 300 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAC IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDINNIDEQPKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLESGTVECTVAQ IQFMCEVLDINNIDEQPRPLTDSRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLESGTVECTVAQ IQFMCEVLDINNIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLESGTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFMCEVLDINNIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFMCEVLDINNIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFMCEVLDINNIDEQFKPLTDSQRVFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFMCEVLDINNIDEQFKPLTDSQRVFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFMCEVLDINNIDEQFKPLTDSQRVFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFMCEVLDINNIDEQFKPLTDSQRVFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFMCEVLDINNIDEQFKPLTDSQRVFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFMCEVLDINNIDEQFKPLTDSQRVFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IEFMCEVLDINNIDEQFKPLTDSQRVFTKEIKGLKVET	308 310 311 300 310 310 310 310 310 310 310
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV DALA IEFMCEVLD IRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLD INIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD INIDEQPRPLTDSRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD INIDEQPRPLTDSRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLESQTVECTVAQ IQFMCEVLD INIDEQPRPLTDSRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLESQTVECTVAQ IQFMCEVLD INIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLESQTVECTVAQ IQFMCEVLD INIDEQPRPLTDSRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQLESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLESQTVECTVAQ IEFMCEVLD INIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INIDEQPRPLTDSRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INIDEQPRPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INIDEQPRPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INIDEQPKPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD IRNIDEQPKPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD IRNIDEQPKPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD IRNIDEQPKPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD IRNIDEQPKPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ	220 228 308 310 300 310 300 310 308 311 302 310 308 300 308 300 308 300 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago1	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAC EFMCEVLD IRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD INNIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSHRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQRPRLTDSHRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQRPRLTDSHRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQRPRLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQRKPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQRKPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQRKPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQRKPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQRKPLTVDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLD INNIDEQRKPLTVDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQUESQTVECTVAQ	220 228 308 310 300 310 300 310 308 311 302 310 308 300 308 308 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFWCEVLDIRNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IQFMCEVLDINIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDINIDEQPRPLTDSHRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDINIDEQPRPLTDSHRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDINIDEQPRPLTDSHRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDINIDEQRPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDINIDEQRPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDIRNIDEQFKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDIRNIDEQFKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDIRNIDEQFKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDIRNIDEQFKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDIRNIDEQFKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDIRNIDEQFKPLTDSQRVKFT	220 228 308 310 311 300 310 310 310 310 310 308 300 308 300 308 300 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLD IRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFWCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD INNIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLD INNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLD INNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IFFMCEVLD INNIDEQPRPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IFFMCEVLD INNIDEQPRPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IFFMCEVLD INNIDEQPRPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IFFMCEVLD INNIDEQPRPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGTVECTVAQ IFFNCEVLD INNIDEQPRPLTDSQRVFTKEIKGLKVENTKAFASAPDRQEEISKLMRSASFN- YFRCFVLQLKYPH	220 228 308 310 300 300 311 300 308 311 302 310 310 308 310 309 310 309 310 309 310 300 310 300 310 300 310 300 310 300 310 300 30
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLD IRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IGFMCEVLD INNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLD INNIDEQPRPLTDSRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLD INNIDEQPRPLTDSRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFWCEVLD INNIDEQPRPLTDSRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQRPLTDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVKFTKEIKGLKVETHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQRPLEVCNIVAGQRCIKKLIDNQTSTMIKATARSAPDRQEEISRLWKNSXMG YFKKYSLQLKYPHLPCLQVGQEQ	220 228 308 310 300 310 300 310 308 311 302 310 308 300 308 300 308 300 308 300 308 300 308 300 308 300 308 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNEQTKPLTDSQRVFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLDINNIDEQPKPLTDSQRVFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQENGQAMECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQENGQAMECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQTKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQTKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQTKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQTKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQTKPLTDSQRVFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLD INNIDEQTKPLTDSQRVFTKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQESGGTVECTVAQ YFKQKYNLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLMKNSSYN- YFKDRHKIVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNVG YFKQKYSLQLKYPHLPCLQVGGEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNVG YFKQKYSLQLKYPHLPCLQVGGEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNVG	220 228 308 310 311 300 310 310 308 311 302 310 310 308 300 308 308 300 308 308 308 308 30
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV DAL IEFMCEVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDIRNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQENGQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IEFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IQFMCEVLDIHNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IQFMCEVLDIKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLDINNIDEQPRPLTDSRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLDINNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLDINNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLDINNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLDINNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLDINNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFMCEVLDINNIDEQPRPLTDSQRVKFTKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDINNIDEQPRPLTDSQRVKFTKEIKGLKVENTKASAPDRQEEISKLMKASSFN- YKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAQQRCIKKLTDNQTSTMIKATARSAPDRQEEISKLMKASSFN- YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAQQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNSMVG YFKQKYSLQLKYPHLPCLQVQGEQKHTYLPLEVCNIVAQQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNSMVG YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIV	220 228 308 310 300 300 311 300 300 310 308 311 302 300 308 300 308 300 308 300 308 300 308 300 308 300 308 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLDINIDEQPKPLTDSQRVRFTKEIKGLKVEVTHGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEVTHGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IEFMCEVLDINNDQTKPLTDSQRVKFTKEIRGLKVEVTHGQMKRKYRVCNVTRRPASHQTFPLQLENQQAMECTVAQ IEFMCEVLDIQNINEQTKPLTDSQRVKFTKEIRGLKVEVTHGQMKRKYRVCNVTRRPASHQTFPLQLENQQAMECTVAQ IEFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHGQMKRKYRVCNVTRRPASHQTFPLQLENQQAMECTVAQ IEFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHGQMKRKYRVCNVTRRPASHQTFPLQLENQQAMECTVAQ IEFMCEVLDINIDEQPRPLTDSQRVFTKEIRGLKVEVTHGQMKRKYRVCNVTRRPASHQTFPLQLESQQTVECTVAQ IQFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHGQMKRKYRVCNVTRRPASHQTFPLQLESQQTVECTVAQ IQFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHGGMKRKYRVCNVTRRPASHQTFPLQDESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIRGLKVEVTHGGMKRKYRVCNVTRRPASHQTFPLQDESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIRGLKVEVTHGGMKRKYRVCNVTRRPASHQTFPLQDESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIRGLKVEVTHGGMKRKYRVCNVTRRPASHQTFPLQDESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIRGLKVEVTHGGMKRKYRVCNVTRRPASHQTFPLQDESQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIRGLKVEVTHGGMKRKYRVCNVTRRPASHQTFPLQLENQAVECTVAQ IEFMCEVLDINIDEQPRPLTDSRVKFTKEIRGLKVEVTHGGMKRKYRVCNVTRRPASHQTFPLQLESQTVECTVAQ IEFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHGGMKRKYRVCNVTRRPASHQTFPLQLENQAVECTVAQ IEFMCEVLDINIDEQPRPLTDSQRVKFTKEIRGLKVEVTHGGMKRKYRVCNVTRRPASHQTFPLQLESQTVECTVAQ IEFKCEVLDIRNIDEQRKPLTDSQRVKFTKEIRGLKVEVTHGGMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ IEFKCEVLDIRNIDEQRKPLTDSQRVKFTKEIRGLKVEVTHGQMKRKYRVCNVTRRPASHQTFPLQESQTVECTVAQ YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLMKNASYN- YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNSWG YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNSWG YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNSWG YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNSWG YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAG	220 228 308 310 310 300 310 300 310 308 311 302 310 308 300 308 300 308 300 308 300 308 300 308 300 308 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #3 #34	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV	220 228 308 310 311 300 310 310 310 310 310 308 311 302 310 310 308 300 308 308 300 308 308 300 308 308
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7	vpfetiQaldvamrhlasmrytpvgrsffsppegyyhplgggrevwfgfhQsvrpamwkmmlnidvsatafykaQpv PAZ IefwcevldirnideopkplidsQrvfftkeikglkvevthgQmkrkyrvcnvtrrpashotfplQlesoqtvectvaq IofwcevldirnideopkplidsQrvkftkeikglkveithgQmkrkyrvcnvtrrpashotfplQlesoqtvectvaq IefwcevldinnideopkplidsQrvkftkeikglkveithgQmkrkyrvcnvtrrpashotfplQlesoqtvectvaq IefwcevldinnideopkplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQlesoqtvectvaq IefwcevldirnideopkplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQlesoqtvectvaq IefwcevldirnideopkplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQlesoqtvectvaq IefwcevldirnideopkplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQlesoqtvectvaq IefwcevldirnideoprplidsHrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefvcevldfrsieeQokplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefvcevldfrsieeQokplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefvcevldfrsieeQokplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefvcevldfysieQokplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsRvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvkftkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvFtkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvFtkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvectvaq IefwcevldirnideoprplidsQrvFtkeirglkvevthgQmkrkyrvcnvtrrpashotfplQesoqtvextvaq IfkgvyslQkyphlpclQvqogQkhtylplevcnvaq	220 228 308 310 300 300 311 300 300 310 300 310 300 30
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #3 #14	vpfetiQaldvamrhlasmrytpvgrsffsppegyyhplgggrevwfgfhQsvrpamwkmmlnidvsatafykaQpv PAZ IefwCevldirnideQpkpltdsQrvffkeikglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldirnideQprpltdshrvkftkeikglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldinnideQprpltdshrvkftkeikglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldinnideQprpltdsgrvkftkeirglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldinnideQprpltdsgrvkftkeirglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldinnideQprpltdsgrvkftkeirglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldinnideQprpltdsgrvkftkeirglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldinnideQprpltdsgrvkftkeirglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldinnideQprpltdsgrvkftkeirglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefvCevldfksieEQQkPltDsQrvkftkeirglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefvCevldfksieEQQkPltDsQrvkftkeirglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefvCevldfksieEQQkPltDsQrvkftkeirglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefvCevldfksieEQQkPltDsQrvkftkeirglkvevthcgMkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefvCevldfksieEQQkPltDsQrvkftkeirglkvevthcgMkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefvCevldfksieEQQkPltDsQrvkftkeirglkvevthcgMkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldInnibeQrPpltDsHrvkftkeirglkvevthcgMkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldInnibeQrPpltDsHrvkftkeirglkvevthcgQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldInnibeQrPpltDsHrvkftkeirglkveithcQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldInnibeQrPpltDsQrvkftkeirglkveithcQmkrkyrvcnvtrrpashqtfplqEsQtvectvaQ IefwCevldInnibeQrPpltDsHrvkftkeirglkveithcQmkrkyrvcnvtrrpashqtfplqEsQtvextwq fkQryhlpcLQvqQeQkhtylplevCnivAqQrcikkltDnQtstmikAtarsApDrQeEisRlwkaSyn- yfkQryslQlkyphlpcLQvqQeQkhtylplevCnivAqQrcikkltDnQtstmikAtarsApDrQeEisRlwkaSyn- yfkQryhlQlkyphlpcLQvqQeQkhtylplevCnivAqQrcikkltDnQtstmikAtarsApDrQeEisRlwkaSyn- yfkQryhlpcLQvqQeQkhtylplevCnivAqQrcikkltDnQtstmikAtarsApDrQeEisRlwkaSyn- yfkQryhlpcLQvqQeQkhtylplevCnivAqQrcikkltDnQtstmikAtarsApDr	220 228 308 310 310 300 310 300 310 308 311 302 310 308 300 308 300 308 300 308 300 308 300 308 300 308 300 308 300 308 300 308 300 308 300 308 300 308 300 308 300 308 300 308 300 300
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PD2 EFMCEVLD IRNIDEQPKPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLD IRNIDEQPKPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLD INNIDEQPKPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD IQNINEQTKPLTDSQRVKFTKEIRGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IQFMCEVLD INNIDEQPKPLTDSQRVKFTKEIRGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD INNIDEQPKPLTDSQRVKFTKEIRGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IQFMCEVLD INNIDEQPKPLTDSQRVKFTKEIRGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IQFMCEVLD INNIDEQPKPLTDSQRVKFTKEIRGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLDINDEQPKPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD INNIDEQPRPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAVECTVAQ IEFMCEVLD INNIDEQPRPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGAVECTVAQ IEFMCEVLD INNIDEQFRPLTDSQRVKFTKEIKGIKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGAVECTVAQ IFKKEYYLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRIMKNASYN- YFKDRNKIVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNSWG YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLVKSNSWG YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLWKSNSWG YFKDRKKIVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLWKSNSWG YFKDRKKIVLRYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLWKSNSWG YFKDRKKIVLRY	220 228 308 310 311 302 310 300 310 300 310 300 310 300 300 300
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #3	VPFETIQALDVAMRHLASMRYTPVGRSFFSPPEGYYHPLGGGREVWFGFHQSVRPAMWKMMLNIDVSATAFYKAQPV PAZ IEFMCEVLD IRNIDEQPRPLTDSQRVFFKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLESGQTVECTVAQ IQFMCEVLD IRNIDEQPRPLTDSQRVFFKEIKGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQMECTVAQ IEFMCEVLD IQNINEQTRPLTDSQRVFFKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD IQNINEQTRPLTDSQRVFFKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD IQNINEQTRPLTDSQRVFFKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD IQNINEQTRPLTDSQRVFFKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAMECTVAQ IEFMCEVLD INNIDEQPRPLTDSQRVFFKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLD IHNIDEQPRPLTDSQRVFFKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IQFMCEVLD IHNIDEQPRPLTDSQRVFFKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQRPLTDSQRVFFKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQRPLTDSQRVFFKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQRPLTDSQRVFFKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFVCEVLDFKSIEEQQRPLTDSQRVFFKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFWCEVLD INNIDEQRPLIDSRVFFKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFWCEVLD INNIDEQRPLIDSQRVFFKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVFFKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVFFKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVFFKEIKGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQTVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVFTKEIRGLKVEVTHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQXVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVFTKEIRGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAVECTVAQ IEFMCEVLD INNIDEQRPLIDSQRVFTKEIRGLKVEITHCGQMKRKYRVCNVTRRPASHQTFPLQLENGQAVECTVAQ IFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISKLMKNASYN- YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLWKSNSWG YFKQKKVLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIKATARSAPDRQEEISRLWKNASYN- YFKQK	308 310 300 311 300 310 311 300 310 310 310
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #3 #34 #38	vpfetiQaldvam_rhlasmrytpvgrsffsppegyyhplgggrevwfgfhqsvrpamwkmmlnidvsatafykaqev PAZ IefMcevld irnideQpkpltdsQrvffkeikglkvevthcgQkkrkyrvcnvtrrpashQtfplQlesgqtvectvaq iefwcevld irnideQrppltdsQrvffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQlesgqtvectvaq iefmcevld innideQrppltdsQrvffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQlengQatectvaq iefmcevld innideQrppltdsQrvffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQLengQatectvaq iefmcevld innideQrppltdsQrvffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQLengQatectvaq iefmcevld innideQrppltdsQrvffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQLengQatectvaq iefmcevld innideQrppltdsQrvffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQLengQatectvaq iefwcevld innideQrppltdsQrvffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQLengQatectvaq iefvcevldfksieeQckpltdsQrvffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQDesgqtvectvaq iefvcevldfksieeQckpltdsQrvkffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQDesgqtvectvaq iefvcevldfksieeQckpltdsQrvkffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQDesgqtvectvaq iefvcevldfksieeQckpltdsQrvkffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQDesgqtvectvaq iefvcevldfksieeQckpltdsQrvkffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQDesgqtvectvaq iefwcevld innideQrppltdsRvkffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQDesgqtvectvaq iefwcevld innideQrkpltdsQrvkffkeikglkvevthcgdkrkyrvcnvtrrpashQtfplQDesgqtvectvaq iefwcevld innideQrkpltdsQrvkffkeikglkveithcQdkrkyrvcnvtrrpashQtfplQDesgqtvectvaq iefwcevld innideQrkpltdsQrvkffkeikglkveithcQdkrkyrvcnvtrrpashQtfplQDesgqtvectvaq iefkcevld innideQrkpltdsQrvkffkeikglkveithcQdkrkyrvcnvtrrpashQtfplQDesgqtvectvaq yfkprhkivlryphlpclQvgeQckhtylplevcnivAgQrcikkltDnQtstmikatarsapDrQeeisklmsashp yfkprkivlikyphlpclQvgeQckhtylplevcnivAgQrcikkltDnQtstmikatarsapDrQeeisRivksnswg yfkorkslQlkyphlpclQvgeQckhtylplevcnivAgQrcikkltDnQtstmikatarsapDrQeeisRivkssymg yfkorkslQlkyphlpclQvgeQckhtylplevcnivAgQrcikkltDnQtstmikatarsapDrQeeisRivkssymg yfkorkslQlkyphlpclQvgeQckhtylplevcnivAgQrcikkltDnQtstmikatarsapDrQeeisRivkssymg yfkorkslQlkyphlpclQvgeQckhtylplevcnivAgQrcikkltDnQtstmikatarsapDrQeeisRivkssymg yfkoryslQl	220 228 308 310 300 310 300 310 300 310 300 310 300 30
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #3 #38	vpfetiQaldvam,rhlasmrytpvgrsffsppegyyhplgggrevwfgfhqsvrpamwkmmlnidvsatafykaqpv PAZ Iefwcevldirnideopkpltdsorvrfkeikglkvevthcgokkrkyrvcnvtrrpashotfplolesgotvectvao iefwcevldirnideopkpltdsorvrfkeikglkvevthcgokkrkyrvcnvtrrpashotfplolesgotvectvao iefwcevldiojnieotkpltdsorvrfkeikglkvevthcgokkrkyrvcnvtrrpashotfplolengoamectvao iefwcevldiojnieotkpltdsorvrfkeikglkvevthcgokkrkyrvcnvtrrpashotfplolengoamectvao iefwcevldiojnieotkpltdsorvrfkeikglkvevthcgokkrkyrvcnvtrrpashotfplolengoamectvao iefwcevldiojnieotkpltdsorvrfkeikglkvevthcgokkrkyrvcnvtrrpashotfplolengoamectvao iefwcevldiinideoprpltdsrvkfkeikglkvevthcgokkrkyrvcnvtrrpashotfplolengoamectvao iefwcevldirnideoprpltdsrvkfkeikglkvevthcgokkrkyrvcnvtrrpashotfplolengoamectvao iefwcevldirnideoprpltdsrvkfkeikglkvevthcgokkrkyrvcnvtrrpashotfplolengoamectvao iefvcevldirsiegokpltdsorvrfkeikglkveithcgokkrkyrvcnvtrrpashotfplolengotvectvao iefvcevldfksiegokpltdsorvrfkeikglkveithcgokkrkyrvcnvtrrpashotfplolesgotvectvao iefvcevldfksiegokpltdsorvrfkeikglkveithcgokkrkyrvcnvtrrpashotfplolesgotvectvao iefwcevldirnideoprpltdsrvkfrkeikglkveithcgokkrkyrvcnvtrrpashotfplolesgotvectvao iefwcevldirnideoprpltdsrvkfrkeikglkveithcgokkrkyrvcnvtrrpashotfplolesgotvectvao iefwcevldirnideoprpltdsrvkfrkeikglkveithcgokkrkyrvcnvtrrpashotfplolesgotvectvao iefwcevldirnideoprpltdsrvkfrkeikglkveithcgokkrkyrvcnvtrrpashotfplolesgotvectvao iefwcevldirnideoprpltdsrvkfrkeikglkveithcgokkryrvcnvtrrpashotfplolesgotvectvao iefwcevldirnideoprpltdsgvkrftkeikglkveithcgokkryrvcnvtrrpashotfplolesgotvectvao iefwcevldirnideoprpliceveitheventkingereithcgokkryrvcnvtrrpashotfplolesgistirsinsans yfkorsyslolkyphlpclovgoeckhtylplevcnvaggreikklidnogtstmikatarsapdrozeisrivssnymy yfkorskluviryphlpclovgoeckhtylplevcnvaggreikklidnotstmikatarsapdrozeisrivssnymy yfkorsyslolkyphlpclovgoeckhtylplevcnvaggreikklidnogtstmikatarsapdrozeisrivssnymy yfkorskluviryphlpclovgoeckhtylplevcnvaggreikklidnogtstmikatarsapdrozeisrivssnymy yfkorsyslolkyphlpclovgoeckhtylplevcnvaggreikklidnogtstmikatarsapdrozeisrivssnymy yfkorsyslolk	220 228 308 310 310 300 310 300 310 300 310 300 310 300 30
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #3 #5 #7 #14 #3 #5 #7 #3 Ago4	vpfetiQaldvam_rhlasmrytpvgrsffsppegyyhplgggrevwfgfhqsvrpamwkmmlnidvsatafykaqev PAZ IefMcevld irnideqpkpltdsqrvftkeikglkvevthcgdkrkyrvcnvtrrpashqtfplqlesgqtvectvaq iefwcevld irnideqprpltdsqrvftkeikglkvevthcgdkrkyrvcnvtrrpashqtfplqlesgqtvectvaq iefmcevld innideqrkpltdsqrvftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqlengqtvertvaq iefmcevld innideqrkpltdsqrvftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqlengqtvertvaq iefmcevld innideqrkpltdsqrvftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqlengqtvertvaq iefmcevld innideqrkpltdsqrvftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqlengqtertvaq iefmcevld innideqrkpltdsqrvftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqlengqamectvaq iefmcevld innideqrkpltdsqrvftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqlengqamectvaq iefwcevld innideqrkpltdsqrvftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqlengqamectvaq iefvcevldfksieeqqkpltdsqrvftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqDesgqtvectvaq iefvcevldfksieeqqkpltdsqrvkftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqDesgqtvectvaq iefvcevldfksieeqqkpltdsqrvkftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqDesgqtvectvaq iefwcevld innideqrkpltdsqrvkftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqDesgqtvectvaq iefwcevld innideqrkpltdsqrvkftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqDesgqtvectvaq iefwcevld innideqrkpltdsqrvkftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqDesgqtvectvaq iefwcevld innideqrkpltdsqrvkftkeirglkvevthcgdkrkyrvcnvtrrpashqtfplqDesgqtvectvaq iefwcevld innideqrkpltdsqrvkftkeirglkveithcgdkrkyrvcnvtrrpashqtfplqDesgqtvectvaq iefkcevld innideqrkpltdsqrvkftkeirglkveithcgdkrkyrvcnvtrrpashqtfplqDesgstrvkftxsnyc yfkpryslqlkyphlpclqvqdegkhtylplevcnivagqccikkltdnqtstmiratarsapdrgeeisklwssymy yfkpryslqlkyphlpclqvqdegkhtylplevcnivagqccikkltdnqtstmiratarsapdrgeeisklwssymy yfkgryslqlkyphlpclqvqdegkhtylplevcnivagqccikkltdnqtstmiratarsapdrgeeisrlvkssymy yfkgryslqlkyphlpclqvqdegkhtylplevcnivagqccikkltdnqtstmiratarsapdrgeeisrlvkssymy yfkgryslqlkyphlpclqvqdegkhtylplevcnivagqccikkltdnqtstmiratarsapdrgeeisrlvkssymy yfkgryslqlkyphlpclqvqdegkhtylplevcnivagqccikkltdnqtstmiratarsapdrgeeisrlvkssymy yfkgryslq	220 2228 3088 310 300 311 300 300 311 300 310 310 310
#38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #32 #33 #34	vpfetiQaldvarrhlasmrytpvgrsffsppegyyhplgggrevwfgfhQsvrPamwkmmlnidvsatafykaQpv PAZ IefMceVLDIRNIDEQPKPLTDSQRVRFTKEIKGLKVeVTHCGQMKRKYRVCNVTRPASHQTFPLQLESGQTVECTVAQ IefMceVLDIRNIDEQPKPLTDSQRVkFTKEIKGLKVEVTHCGMKRKYRVCNVTRPASHQTFPLQLENGQMECTVAQ IefMceVLDINNDEQTKPLTDSQRVkFTKEIRGLKVEVTHCGMKRKYRVCNVTRPASHQTFPLQLENGQMECTVAQ IefMceVLDINNEQTKPLTDSQRVkFTKEIRGLKVEVTHCGMKRKYRVCNVTRPASHQTFPLQLENGQMECTVAQ IefMceVLDINNDEQTKPLTDSQRVkFTKEIRGLKVEVTHCGMKRKYRVCNVTRPASHQTFPLQLENGQMECTVAQ IefMceVLDINNDEQTKPLTDSQRVkFTKEIRGLKVEVTHCGMKRKYRVCNVTRPASHQTFPLQLENGQMECTVAQ IefMceVLDINNDEQTKPLTDSQRVkFTKEIRGLKVEVTHCGMKRKYRVCNVTRPASHQTFPLQESGQTVECTVAQ IQFMceVLDINNDEQTKPLTDSRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRPASHQTFPLQESGQTVECTVAQ IQFMceVLDINNDEQRPLDSRVKFTKEIRGLKVEVTHCGMKRKYRVCNVTRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGMKRKYRVCNVTRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGMKRKYRVCNVTRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGMKRKYRVCNVTRPASHQTFPLQESGQTVECTVAQ IEFVCEVLDFKSIEEQQKPLTDSQRVKFTKEIKGLKVEITHCGMKRKYRVCNVTRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDINNDEQTKPLTDSQRVKFTKEIKGLKVEITHCGMKRKYRVCNVTRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDINNDEQTKPLTDSQRVKFTKEIKGLKVEITHCGMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IEFMCEVLDINNDEQKPLTDSQRVKFTKEIKGLKVEITHCGMKRKYRVCNVTRRPASHQTFPLQESGQTVECTVAQ IFKDRKKVLRVPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISRLMKASSYN- YFKDRKKVLRVPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISRLMKASSN- YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISRLWKASSNMG YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISRLWKNSSNMG YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISRLWKNSSVN- YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISRLWKNSSVN- YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISRLWKNSSVN- YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTMIRATARSAPDRQEEISRLWKNSSVN- YFKQKYSLQLKYPHLPCLQVGQEQKHTYLPLEVCNIVAGQRCIKKLTDNQTSTM	220 228 308 310 310 300 310 300 310 300 310 300 300

С

Ago1	-LDPYIQEFGIKVKDDMTEVTGRVLPAPILQYGGRNRAIATPNQGVWDMRGKQFYNGIEIKVWAIACFAPQKQCREEVLK	466
1 202	- TO DY A DE CIMUNDEMEDUT OD CITY CODING TA TO DO CUMUDADANCE UT CITY TA CEA DO COTEVUL	160
Agoz	- IDPIVREEGINVRDEMIDVIGRVLQEPSILIGGRNRAIAIPVQGVWDMRNRQFHIGIEIRVWAIACFAPQRQCIEVHLR	400
Ago3	-TDPFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQROCREEILK	469
Ago4	GPDPYLKEEGTVVHNEMTELTGRVLPAPMLOVGGRNKTVATPNOGVWDMRCKOEVACTETKVWAVACEAPOKOCPEDTTK	460
Agos		100
#1	GPDPYLKEFGIVVHNEMTELTGRVLPAPMLQYGGRNKTVATPNQGVWDMRGKQFYAGIEIKVWAVACFATQRQCREEILK	460
#3	-TDPYVREFGIMVKDEMTDVTGRVLOPPSILYGGRNKAIATPVOGVWDMRNKOFHTGIEIKVWAIACFAPOKOCREEVLK	468
#E	L DEVICE E CIVUY DENTE VICE VIE DADILIOV CONDEVA ED CUCUNIDAD CACEUE CUE LAMUA TA CEA ECOCOPETTIA	100
#5	-LDPIIQEEGIKVKDDMTEVTGRVLPAPILQIGGRNRTVATPSHGVWDMRGRQFHTGVEIRMWAIACFATQRQCREEILK	400
#7	- LDPY LOEFGI KVKDDMTEVTGRVLPAPILOYGGRNRAIATPNOGVWDMRGKOFYNGI EI KVWAIACFAPOKOCREEVLK	469
#1 A		100
#14	GPDPYLKEFGIVVHNEMTELTGRVLPAPMLQYGGRNKTVATPNQGVWDMRGKQFYAGIEIKVWAVACFAPQKQCREDLLK	462
#31	GPDPYLKEFGIVVHNEMTELTGRVLPAPMLOYGGRNKTVATPNOGVWDMRGKOFYAGIEIKVWAVACFAPOKOCREDLLK	470
#32	-TOPEVOREOFVUDDEMAUVICOVIDADMIOVCCONDATATOSUCVUDMOCKOFUTCVETYMAATACEATOOOCDEETIK	169
#52	- IDPF VQEF QF KVKDEMANVIGKVEPAPMEQIGGKNKATATPSNGVWDMRGKQF HIGVETKMWATACFATQKQCKEETEK	400
#33	-TDPFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPSHGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILK	466
#34	-TOPYVEFECTMVKDEMTOVTCEVLOPDSTLYCCENKATATEVCCVWDMENKOFHTCTFTKVWATACEADOPOCTEVHLK	459
#J1		
#38	-TDPFVQEFQFKVRDEMAHVTGRVLPAPMLQYGGRNRTVATPNQGVWDMRGKQFHTGVEIKMWAIACFATQRQCREEILK	466
	NAID	
	MID	
3	NEEDAL BUT OVD3 CMD TACADGECUV3 AC3 DOVEDNEDUL VNEVCCI ALT TUTT DOVEDVA EVUDUODELL CM3 EACUA	E 4 6
Agoi	NF IDQLKKISKDAGMPIQGQPCFCKIAQGADSVEPMFKHLKNIISGLQLIIVILPGKIPVIAEVKKVGDILLGMAIQCVQ	540
Ago2	SFTEQLRKISRDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYAGLQLVVVILPGKTPVYAEVKRVGDTVLGMATQCVQ	548
1 203	CENDOL BUT SUDA CMD TOCOD CECUVA OCA D SUEDMEDUL UNITA SCI OL T TUTL D CUMPUCDUL I CMATOCUO	5/0
Agos	GF IDQUKKISKDAGME IQGQF CF CKIAQGADSVEFME KAUKAIISGUQUIIVIIFGKIFVIAEVKKVGDILLGMAIQCVQ	545
Ago4	SFTDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFKHLKMTYVGLQLIVVILPGKTPVYAEVKRVGDTLLGMATQCVQ	540
#1	GETDOLRKISKDAGMPIOGOPCECKYAOGADSVEPMERHLKNTYSGLOLIIVILPGKTPVYAEVKRVGDTLLGMATOCVO	540
#2		E 4 0
#3	NF IDZIKKISKDAGMFIQGQFCFCKIAQGADSVEPMFKHLKNIISGLQLIIVILFGKTFVIAEVKRVGDILLGMATQCVQ	548
#5	GFTDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFRHLKNTYSGLOLIIVILPGKTPVYAEVKRVGDTLLGMATOCVO	546
#7	NETDOLEKTSKDACMPTOCODCECKYAOCADSVEDMEDULENTYSCLOTTVUTTDCKTDVAEVEDVCDTTACHADOCVO	540
π,	A DE ANTERNARIA L'EST CALAGONDOVERAL MARAI DE DE DA L'ANTERNARI DE	543
#14	SFTDQLRKISKDAGMPIQGQPCFCKYAQGADSVEPMFKHLKMTYVGLQLIVVILPGKTPVYAEVKRVGDTLLGMATQCVQ	542
#31	SETDOLEKT SKDAGMPTOGOPCECKYAOGADSVEPMERHLKNTYSGLOLT TVTL PCKTDVYAEVKRVCDTL CMATOCVO	550
#20		550
#32	GFTDQLRKISKDAGMP1QGQPCFCKYAQGADSVEPMFRHLKNTYAGLQLVVV1LPGKTPVYAEVKRVGDTVLGMATQCVQ	548
#33	GETDOLRKISKDAGMPIOGOPCECKYAOGADSVEPMERHLKNTYSGLOLIIVILPGKTPVYAEVKRVGDTLLGMATOCVO	546
#24		500
#34	SFTEQLRKISRDAGMP1QGQPCFCKIAQGADSVEPMFRHLKNTISGLQLIIVILPGKTPVIAEVKRVGDTLLGMATQCVQ	538
#38	GFTDOLRKISKDAGMPIOGOPCFCKYAOGADSVEPMFRNLKNTYSGLOLIIVILPGKTPVYAEVKRVGDTLLGMATOCVO	546
Agol	VKNVVKTSPQTLSNLCLKINVKLGGINNILVPHQRSAVFQQPVIFLGADVTHPPAGDGKKPSITAVVGSMDAHPSRYCAT	626
Ago2	MKNVORTTPOTI.SNI.CI.KINVKI.GGVNNII.I.POGRPPVFOOPVIFI.GADVTHPPAGDGKKPSIAAVVGSMDAHPNRYCAT	628
2		600
Agos	VKNVIKTSPQTLSNLCLKINVKLGGINNILVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCAT	629
Ago4	VKNVVKTSPOTI.SNI.CI.KINAKI.GGINNVI.VPHORPSVFOOPVIFI.GADVTHPPAGDGKKPSIAAVVGSMDGHPSRYCAT	620
#1		600
# 1	VKNVIKISPŲTLSNLCLKINVKLGGINNILVPHQKPSVEQQPVIELGADVIHPPAGDGKKPSIAAVVGSMDAHPSKICAT	620
#3	VKNVVKTSPQTLSNLCLKINVKLGGINNILLPQGRPPVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCAT	628
#5	MENUOPTTPOTT SNI CI KINVEL CCINNII VPHOPSAVEOOPVIEL CADVTHPRACOCKERSTANVCSMDA HPNPYCAT	626
#5	MKNYQKTIFQTISNICIKTNYKIGGTNNTIYFRQKSAVFQQFYTFIGADYTRFFAGDGKKFSTAAVVGSMDANFNKTCAT	020
#7	VKNVVKTSPQTLSNLCLKINAKLGGINNVLVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCAT	629
#14	MKNVORTTPOTLSNLCLKINVKLGGVNNILLPOGRPPVF00PVIFLGADVTHPPAGDGKKPSIAAVVGSMDGHPSRYCAT	622
		600
#31	VKNVVKTSPQTLSNLCLKINAKLGGINNVLVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDAHPSRYCAT	630
#32	MKNVORTTPOTLSNLCLKINVKLGGIYNILVPHORPSVF00PVIFLGADVTHPPAGDGKKPSITAVVGSMDAHPSRYCAT	628
#22		606
#33	VKNVVKISPQTLSNLCLKINVKLGGINNILVPHQKSAVFQQPVIFLGADVIHPPAGDGKKPSIAAVVGSMDAHPSKICAT	620
#34	VKNVVKTSPQTLSNLCLKINAKLGGINNVLVPHQRPSVFQQPVIFLGADVTHPPAGDGKKPSIAAVVGSMDGHPSRYCAT	618
#38	VKNVTKTSPOTLSNLCLKTNVKLCCTNNTLVPHORPSVF00PVTFLC2DVTHDPACDCKKPSTAAVVCSMDAHPSRYCAT	626
#00		020
	*	
	PIWI	
	PIWI	
Ago1	PIWI VRVORPROEIIEDISYMVRELLIOFYKSTRFKPTRIIFYRDGVPEGOLPOILHYELLAIRDACIKLEKDY	696
Ago1	PIWI VRVQRPRQEIIEDISYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHBQRUIQDIAAMVBELLIQFYKSTRFKPTBIIFYRDGVSEGOFQQVLHHELLAIRDACIKLEKDY	696
Ago1 Ago2	PIWI VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY	696 698
Ago1 Ago2 Ago3	PIWI vrvqrprqEiiedlsymvrelliqfykstrfkptriifyrdgvpegqlpqilhyellairdaciklekdy vrvqqhrqEiiqdlaamvrelliqfykstrfkptriifyrdgvsegqfqqvlhhellaireaciklekdy vrvqrprqEiiqdlasmvrelliqfykstrfkptriifyrdgvsegqfrqvlyyellaireacislekdy	696 698 699
Ago1 Ago2 Ago3 Ago4	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACISLEKDY VRV0TSROEISOELLYSOEVIODITNMVRELLIOFYKSTFFKPTRIIYYRGGVSEGOMKOVAWPELIAIRKACISLEEDY	696 698 699 700
Ago1 Ago2 Ago3 Ago4 #1	PIWU VRVQRPRQEIIEDISYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQTSRQEISQELLYSCEVIQDITNMVRELLIQFYKSTRFKPTRIIYYRGVSEGQMKQVAWPELIAIRKACISLEEDY VRVQTSRQEISQELLYSCEVIQDITNMVRELLIQFYKSTRFKPTRIIYYRGVSEGQMKQVAWPELIAIRKACISLEEDY	696 698 699 700
Ago1 Ago2 Ago3 Ago4 #1	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQTSRQEISQELLYSCEVIQDITNMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLHYELLAIRACISLEEDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLHYELLAIRDACIKLEKDY	696 698 699 700 690
Ago1 Ago2 Ago3 Ago4 #1 #3	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEEDY VRVQTSRQEISQELLYSQEVIQDITNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY	696 698 699 700 690
Ago1 Ago2 Ago3 Ago4 #1 #3 #5	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEEDY VRVQTSRQEISQELLYSCEVIQDITNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY	696 698 699 700 690 698
Ago1 Ago2 Ago3 Ago4 #1 #3 #5	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQTSRQEISQELLYSQEVIQDLTNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRAACISLEEDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQQRPQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY	696 698 700 690 698 698
Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQTSRQEISQELLYSQEVIQDLTNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQMKQVAWPELIAIREACISLEKDY VRVQTRRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQ	696 698 699 700 698 698 698
Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQRPRQ	696 698 699 690 698 699 699
Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQTSRQEISQELLYSQEVIQDITNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEEDY VRVQTSRQEISQELLYSQEVIQDITNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACISLEEDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQ	696 698 700 698 698 698 698 699
Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQTSRQEISQELLYSQEVIQDLTNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQTRRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRACISLEEDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQ	696 698 699 700 698 698 699 692 700
Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQTSRQEISQELLYSQEVIQDITNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQ	696 698 700 698 698 698 699 699 700 698
Ago1 Ago2 Ago3 4go4 #1 #3 #5 #7 #14 #31 #32	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRACISLEEDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQ	696 698 700 690 698 699 699 699 700 698
Ago1 Ago2 Ago4 #1 #3 #5 #7 #14 #31 #32 #33	PIWU VRVQPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQRRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLYYELLAIREACISLEKDY VRVQRPRQ	696 698 699 690 698 699 699 699 698 698 698
Ago1 Ago2 Ago3 4go4 #1 #3 #5 #7 #14 #31 #32 #33 #34	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQTSRQEISQELLYSQEVIQDITNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLYYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQRPRQ	696 698 699 700 698 699 699 699 698 698 698
Ago1 Ago2 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34	PIWU VRVQPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQTSRQEISQELLYSQEVIQDLTNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIREACIKLEKDY VRVQRPRQ	696 698 699 700 698 699 698 698 698
Ago1 Ago2 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHYELLAIRACISLEEDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQQVLYYLLAIREACISLEKDY VRVQRPRQ	696 698 699 700 698 699 699 698 698 698 698 698
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38	PIWU VRVQRPRQ	696 698 699 700 698 699 699 698 698 698 698 698
Ago1 Ago2 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38	PIWU VRVQRPRQ	696 698 699 700 698 699 698 698 698 698 698
Ago1 Ago2 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQTSRQEISQELLYSGEVIQDITNMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQQHRQ	696 699 700 699 699 699 699 699 699 698 699 698 698
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYEDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYEDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYEDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQRPRQ	696 698 699 690 698 699 698 698 698 698 698 698
Ago1 Ago2 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38	PIWU VRVQPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQTSRQEISQELLYSGEVIQDITNMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQRPRQ	696 699 700 698 699 699 699 698 698 698 698
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1	PIWU VRVQRPRQ	696 699 700 698 699 699 699 699 699 698 696 698 696 776
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2	PIWU VRVQPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQTSRQEISQELLYSCEVIQDITNMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQ	696 698 699 698 699 698 698 698 698 698
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQTSRQEISQELLYSCEVIQDITNMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLHYELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLHHELLAIREACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQ	696 699 700 698 699 699 699 699 699 698 696 700 698 696 776 778
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACISLEEDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLHYELLAIRDACIKLEKDY VRVQRPRQ	696 699 700 699 699 699 699 699 699 699 699 699 6
Ago1 Ago2 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4	PIWU VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFQQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLYYELLAIREACISLEKDY VRVQRPRQEIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGQFRQVLHYELLAIREACIKLEKDY VRVQRPRQ	696 699 700 699 699 699 699 699 699 699 699 699 708 696 778 778
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1	PIWU VRVQRPRQ	696 699 700 699 699 699 699 699 699 698 698 698 698
Ago1 Ago2 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1	PIWI VRVQRPRQ	696 698 699 690 692 700 698 699 698 696 698 696 778 778 778 778 779
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3	PIWU VRVQRPRQ	696 699 700 698 699 692 708 698 696 698 696 778 778 778 778 778
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #3	PIWU VRVQRPRQ	696 699 700 699 699 699 699 699 699 699 699 699 6
Ago1 Ago2 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5	PIWI VRVQRPRQEIIEDISYMVRELLIQFYKSTRFKPTRIIFYRDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQRRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIREACISLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLHYELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLHHELLAIREACIKLEKDY VRVQQHRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLYELLAIREACIKLEKDY VRVQQRRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLYELLAIREACIKLEKDY VRVQQRRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLYELLAIREACIKLEKDY VRVQRPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFQVLYELLAIREACIKLEKDY VRVQRPRQEIIEDISYMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQEIIEDISYMVRELLIQFYKSTRFKPTRIIFYRDGVSEGQFRQVLYYELLAIREACIKLEKDY VRVQRPRQ	698 699 700 698 699 699 699 699 698 698 698 698 778 778 778 778 778 778 778
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7	PIWI VRVQRPRQ	696 699 700 699 699 699 699 699 699 699 699 699 6
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14	PIWI VRVQRPRQ	6996 6992 7000 6992 7000 6996 6996 6996 6996 6996 6996 6996
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31	PIWJ VRVQRPRQEIIEDLSYMVRELLIQFYKSTRFKPTRIIFYRDSVSEGQLPQILHYELLAIRDACIKLEKDY VRVQPRQEIIQDLAAMVRELLIQFYKSTRFKPTRIIFYRDSVSEGQFQQVLHHELLAIRDACIKLEKDY VRVQRPRQ	696 699 699 699 699 699 699 699 699 699
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32	PIWJ VRVQRPRQEIIcDLSYMVRELLIQFYKSTRFKPTRIIFYFDcvSeGGPQVLHYELLAIRDACIKLEKDY VRVQRPRQEIIcDLAMVRELLIQFYKSTRFKPTRIIFYFDcvSeGGFQVLHYELLAIREACIKLEKDY VRVQRPRQEIIcDLASMVRELLIQFYKSTRFKPTRIIFYFDcvSeGGFQVLYYELLAIREACISLEKDY VRVQTSRQEISQELLSSCEVICDLTMVRELLIQFYKSTRFKPTRIIFYFDcvSeGGFQVLHYELLAIREACISLEKDY VRVQRPRQEIIcDLASMVRELLIQFYKSTRFKPTRIIFYFDcvSeGGFQVLHYELLAIREACISLEKDY VRVQRPRQEIIcDLASMVRELLIQFYKSTRFKPTRIIFYFDcvSeGGFQVLHHELLAIREACIKLEKDY VRVQRPRQEIIcDLAAMVRELLIQFYKSTRFKPTRIIFYFDcvSeGGFQVLHHELLAIREACIKLEKDY VRVQRPRQ	696 699 699 699 699 699 699 699 699 699
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32	PIWI VRVQPRQ	699 699 699 699 699 699 699 699 699 699
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago2 Ago4 #1 #3 #5 #7 #14 #31 #32 #31 #32 #33	PIWI VRVQRPRQ	698 699 700 698 699 699 699 699 698 699 698 698 698
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34 #38 Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #31 #32 #33 #34	PIWI VRVQPRQ	698 698 699 700 699 699 699 699 699 698 699 778 778 778 778 778 778 778 778 778 778 778 778 778 778 778 778 7
Ago1 Ago3 Ago4 #1 #3 #5 #7 #14 #32 #33 #34 #38 Ago1 Ago2 Ago4 #1 #3 Ago4 #1 #3 #32 #34 #38	PIWI VRVQPRQ EIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVPEGQLPQILHYELLAIRDACIKLEKDY VRVQPRQ EIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFQQULHELLAIREACIKLEKDY VRVQTSQEISQELLYSQEVIQDITNMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYYELLAIREACIKLEKDY VRVQTPRQ EIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYELLAIREACIKLEKDY VRVQPPRQ EIIQDLASMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULHYELLAIREACIKLEKDY VRVQPRQ EIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULHELLAIREACIKLEKDY VRVQPRQ EIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULHELLAIREACIKLEKDY VRVQPRQ EIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYELLAIREACIKLEKDY VRVQPRQ EIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYELLAIREACIKLEKDY VRVQPRQ EIIQDLAAMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYELLAIREACIKLEKDY VRVQPRQ EIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYELLAIREACIKLEKDY VRVQPRQ EIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYELLAIREACIKLEKDY VRVQPRQ EIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYELLAIREACIKLEKDY VRVQRPRQ EIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYELLAIREACISLEKDY VRVQRPRQ EIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYELLAIREACISLEKDY VRVQRPRQ EIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYELLAIREACISLEKDY VRVQRPRQ EIIEDLSYMVRELLIQFYKSTRFKPTRIIFYFDGVSEGGFRQULYE	698 699 699 699 699 699 699 699 699 699

	PIWI	
Ago1	LQILTYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKEHDSGEGSHISGQSNGRDPQALAKAVQVHQDTLRTMYF	856
Ago2	LQILTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYF	858
Ago3	LQLLTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYF	859
Ago4	LQLLTYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKDHDSAEGSHVSGQSNGRDPQALAKAVQIHHDTQHTMYF	860
#1	LQILTYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKEHDSGEGSHISGQSNGRDPQALAKAVQVHQDTLRTMYF	850
#3	LQLLTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVRVHQDTLRTMYF	858
#5	LQILTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYF	856
#7	LQLLTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKDHDSAEGSHVSGQSNGRDPQALAKAVQIHHDTQHTMYF	859
#14	LQILTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSGEGSHISGQSNGRDPQALAKAVQVHQDTLRTMYF	852
#31	LQLLTYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKEHDSGEGSHISGQSNGRDPQALAKAVQVHQDTLRTMYF	860
#32	LQLLTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHTSGQSNGRDHQALAKAVQVHQDTLRTMYF	858
#33	LQLLTYQLCHTYVRCTRSVSIPAPAYYARLVAFRARYHLVDKDHDSAEGSHVSGQSNGRDPQALAKAVQIHHDTQHTMYF	856
#34	LQLLTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDHQALAKAVQIHHDTQHTMYF	858
#38	LQLLTYQLCHTYVRCTRSVSIPAPAYYAHLVAFRARYHLVDKEHDSAEGSHVSGQSNGRDPQALAKAVQIHQDTLRTMYF	856
Ago1 Ago2	A 857 A 859	
Ago3	A 860	
Ago4	A 861	
#1	A 851	
#3	A 859	
#5	A 857	
#7	A 860	
#14	A 853	
#31	A 861	
#32	A 859	
#33	A 857	
#34		
#38	A 85/	

Supplementary Fig. 7 Alignments (generated using ClustalX2) of parental Ago and selected chimeric sequences.

(a) Chimeras tested in the luciferase and slicer assays in Fig. 1e and the tethering assay in Supplementary Fig. 1h. (b) The eight Ago2–Ago3 chimeras with the strongest Ago2-like phenotype (see Fig. 1d,f). (c) Ago1–4 chimeras tested in the luciferase assays in Fig. 5c. Regions identical in all sequences are marked in gray and unique positions in white. Residues constituting the catalytic tetrad are highlighted by red frames and an asterisk. Sequences encompassing motif I and motif II are framed in orange. The Ago domain structure is depicted above the alignment.

Supplementary Table 1 Template and primer combinations used to generate fragments for OE-

PCRs

mutant	PCR fragment	template	forward primer	reverse primer
	5'	Ago3	#459	#505
IN3F2IVI2F2	3'	Ago2	#506	#517
	5′	Ago2	#459	#505
N ₂ P ₃ IVI ₃ P ₃	3′	Ago3	#506	#517
	5′	Ago3ll ₂	#459	#521
	3′	Ago3ll ₂	#520	#517
	5′	Ago2	#459	#513
Ago2ll₃	middle	Ago3	#514	#505
	3′	Ago2	#506	#517
	5′	Ago3	#459	#515
Ago3ll ₂	middle	Ago2	#516	#505
	3′	Ago3	#506	#517
	5′	Ago2	#459	#523
Agozi _{aaaaa}	3′	Ago2	#522	#517
A = 2 - 4 4 A	5'	Ago2	#459	#539
AYUZF44A	3′	Ago2	#538	#517
	5'	Ago2	#459	#541
AYUZE40A	3′	Ago2	#540	#517
A a 2 1 4 7 A	5'	Ago2	#459	#543
Agozini47A	3′	Ago2	#542	#517
	5'	Ago2	#459	#545
AYUZD46A	3′	Ago2	#544	#517
A = 21	5′	Ago3	#459	#521
Ago3I ₂	3′	Ago3	#520	#517
	5′	Ago3ll ₂	#459	#581
Ago3I _{Met} II ₂	3′	Ago3ll ₂	#580	#517
	5′	Ago1	#459	#505
$N_1P_2N_2P_2$	3′	Ago2	#506	#517
	5′	Ago3	#459	#505
IN3F2IVI2F2	3′	Ago2	#506	#517
	5′	Ago4	#459	#505
IN4F2IVI2F2	3'	Ago2	#506	#517
	5'	Ago1	#459	#505
IN1F3IVI3F3	3'	Ago3	#506	#517
	5′	Ago2	#459	#505
1127311373	3′	Ago3	#506	#517
	5'	Ago4	#459	#505
IN4F3IVI3F3	3′	Ago3	#506	#517
$N_1P_1M_1P_2$	5′	Ago1	#459	#525

	3'	Ago2	#524	#517
	5'	Ago3	#459	#525
IN3F3IVI3F2	3'	Ago2	#524	#517
	5'	Ago4	#459	#525
IN4P4IVI4P2	3'	Ago2	#524	#517
	5'	Ago1	#459	#525
$\mathbf{N}_1\mathbf{P}_1\mathbf{N}_1\mathbf{P}_3$	3'	Ago3	#524	#517
	5'	Ago2	#459	#525
IN2F2IVI2F3	3'	Ago3	#524	#517
	5'	Ago4	#459	#525
IN4F4IVI4F3	3'	Ago3	#524	#517
Ago1	5'	Ago1	#459	#500
Agoidedh	3'	Ago1	#499	#517
	5'	Ago4	#459	#502
Ago4 _{DEDH}	middle	Ago4	#501	#504
	3'	Ago4	#503	#517
	5'	Ago2	#459	#505
IN2F1IVI1F1DEDH	3'	Ago1 _{DEDH}	#506	#517
	5'	Ago2	#459	#505
	3'	Ago4 _{DEDH}	#506	#517
	5′	Ago2	#459	#525
	3'	Ago1 _{DEDH}	#524	#517
	5′	Ago2	#459	#525
IN2F 2IVI2F 4DEDH	3'	Ago4 _{DEDH}	#524	#517
	5′	Ago3l ₂	#459	#772
Ag0312III _{loop2}	3'	Ago3l ₂	#771	#517
Ago3ll	5'	Ago3	#459	#772
Agoon _{loop2}	3'	Ago3	#771	#517
Ago2	5'	Ago2	#459	#855
AYUZDADH	3'	Ago2	#854	#517
Ago/	5′	Ago4 _{DEDH}	#459	#801
∽yo+dedh-10AA	3'	Ago4 _{DEDH}	#800	#517
N. D. M. D	5'	$N_2P_2M_2P_{4DEDH}$	#459	#801
1 121 211 211 4DEDH-10AA	3'	Ago4 _{DEDH}	#800	#517

Supplementary Table 2 Primers for cloning and shuffling reactions

#102	5' - TCGAGACAAACACCATTGTCACACTCCATCTAGAGC - 3'
#103	5' - GGCCGCTCTAGATGGAGTGTGACAATGGTGTTTGTC - 3'
#189	5' - CACCGCCTGACATCGAGGAGGATATTCAAGAGATATCCTCCTCGATGTCAGGC - 3'
#190	5' - AAAAGCCTGACATCGAGGAGGATATCTCTTGAATATCCTCCTCGATGTCAGGC - 3'
#459	5' - GACTACAAGGACGACGATGACAAG - 3'
#460	5' - CACTGAATTCTCATCAGGCGAAG - 3'
#499	5' - CCTGCCTACTACGCCCATCTGGTGGCCTTCCGG - 3'
#500	5' - CCGGAAGGCCACCAGATGGGCGTAGTAGGCAGG - 3'
#501	5' - CATCTACTACAGAGACGGCGTGAGCGAGG - 3'
#502	5' - CCTCGCTCACGCCGTCTCTGTAGTAGATG - 3'
#503	5' - CCTGCCTACTACGCCCATCTGGTGGCCTTCCGG - 3'
#504	5' - CCGGAAGGCCACCAGATGGGCGTAGTAGGCAGG - 3'
#505	5' - CATGCTGGGCAGGTGCCG - 3'
#506	5' - CGGCACCTGCCCAGCATG - 3'
#513	5' - GCTCACGAACTTGATGGACACCTTGAAGAT - 3'
#514	5' - AAGGTGTCCATCAAGTTCGTGAGC - 3'
#515	5' - CACCCACTTGATGGACACCTTAAAGG - 3'
#516	5' - TCAAGGTGTCCATCAAGTGGGTG - 3'
#517	5' - CAATCTTAGCGCAGAAGTCATGC - 3'
#520	5' - AACTTCTTCGAGATGGACATCCCCAAGATCGACGTG - 3'
#521	5' - GTCCATCTCGAAGAAGTTGGCCAGCAGCTTGATGG - 3'
#522	5' - GCCAACGCCGCCGCCGCCATCCCCAAGATCGACATC - 3'
#523	5' - GATGGCGGCAGCGGCGGCGTTGGCCTGCAGCTTGAT - 3'
#524	5' - CAACCTGTGCCTGAAGATCAAC - 3'
#525	5' - GTTGATCTTCAGGCACAGGTTG - 3'
#538	5' - CAGGCCAACGCCTTCGAGATGGACATCCCCAAGATC - 3'
#539	5' - CATCTCGAAGGCGTTGGCCTGCAGCTTGATGGTCCG - 3'
#540	5' - AACTTCTTCGCCATGGACATCCCCAAGATCGACATC - 3'
#541	5' - GATGTCCATGGCGAAGAAGTTGGCCTGCAGCTTGAT - 3'
#542	5' - TTCTTCGAGGCCGACATCCCCAAGATCGACATCTAC - 3'
#543	5' - GGGGATGTCGGCCTCGAAGAAGTTGGCCTGCAGCTT - 3'
#544	5' - TTCGAGATGGCCATCCCCAAGATCGACATCTACCAC - 3'
#545	5' - CTTGGGGATGGCCATCTCGAAGAAGTTGGCCTGCAG - 3'
#580	5' - CTGGCCAACTGCTTCCAGATGGAGATCCCCAAG - 3'
#581	5' - CTT GGG GAT CTC CAT CTG GAA GCA GTT GGC CAG - 3'
#602	5' - GGGGACAAGTTTGTACAAAAAAGCAGGCTTCGAAGGAGATAGAACCATGGACTA
#002	CAAGGACGACGATGACAAG - 3'
#603	5' - GGGGACCACTTTGTACAAGAAAGCTGGTCCACTGAATTCTCATCAGGCGAAG - 3'
#614	5' - AATTTAGCGGCCGCACGCGTGGTACCTCTAGGATATCGAATTCA - 3'
#615	5' - GGCCTGAATTCGATATCCTAGAGGTACCACGCGTGCGGCCGCTA - 3'
#616	5' - GGCCGCAATCAGGATCCATTACGG - 3'
#617	5' - AATTCCGTAATGGATCCTGATTGC - 3'

#631	5' - GGCCGCATCTTATAATGTGGCGCGCCATTTATATAG - 3'
#632	5' - AATTCTATATAAATGGCGCGCCACATTATAAGATGC - 3'
#771	5' - CCAGCGTGCCCTTCGAGACCATCCAG GCCGTGGACGTGGTGCTGC - 3'
#772	5' - ATGGTCTCGAAGGGCACGCTGGGCAG CCTGCCGGTCAGCACCTCGTGC - 3'
#800	5' - CAGACCAGCCGGCAGGAAGTGATCCAGGACCTGACC - 3'
#801	5' - GTCCTG GATCACTTCCTGCCGGCTGGTCTGCACC - 3'
#854	5' - GTGCAGCAGCACCGGCAGGCAATCATTCAGGATCTGGCTG - 3'
#855	5' - CAGCCAGATCCTGAATGATTGCCTGCCGGTGCTGCTGCAC - 3'
#872	5' - TCGACTCGAGTGCTGAAGAACGAGCAGTAATTC - 3'
#873	5' - TCAATGTATCTTATCATGTCTGCTCG - 3'

Supplementary Table 3 Template and primer pairs used in PCRs for generation of DNA

<i>in vitr</i> o transcript for	template (plasmid)	5′ primer	3' primer
shRen1 and shRen2	psiCheck2	5' - TAATACGACTCACTATAG GCTTCCAAGGTGTACGAC - 3'	5' - TCACGGCGTTCTCGGCGTG - 3'
shRen3	psiCheck2	5' - TAATACGACTCACTATAG GGCTCATATCGCCTCCTGGAT C - 3'	5' - ACACTCTCAGCATGGACG - 3'
shRen4	psiCheck2	5' - TAATACGACTCACTATAG GACGTGATCGAGTCCTGGGA C - 3'	5' - CTCGCCCTTCTCCTTGAATG - 3'
miR-122	psi2-miR- 122perf	5' - GAAATTAATACGACTCAC TATAGGCCTCCACTTCAGCCA - 3'	5' - CCAACACACAGATGTAATG - 3'

templates for *in vitro* transcription

Supplementary Table 4 DNA oligonucleotides used as probes

probe for	sequence		
shRen1 antisense	5' - GCAACGCAAACGCATGATCAC - 3'		
shRen1 sense	5' - GTGATCATGCGTTTGCGTTGC - 3'		
shRen3 antisense	5' - GGCCTTTCACTACTCCTACGA - 3'		
shRen3 sense	5' - TCGTAGGAGTAGTGAAAGGCC - 3'		
shRen4 antisense	5' - GCCTGACATCGAGGAGGATAT - 3'		
shRen4 sense	5' - ATATCCTCCTCGATGTCAGGC - 3'		
miR-122	5' - CAAACACCATTGTCACACTCCA - 3'		
miR-122*	5' - TATTTAGTGTGATAATGGCGTT - 3'		
RNU6-1	5' - TGTGCTGCCGAAGCGAGCAC - 3'		