| MESNHKSGDGLSGTQK.EAALRALVQRTGYSLVQE. MEAVCLGTCPEPEASMSTATPGLKKGNNALQSIILQT.LLEKE. MTAEDSTAAMSSDSAAGSSAKVPEGVAGAPN.EAALLALMERTGYSMVQE. MTAEDSTAAMSSDSAAGSSAKVPEGVAGAPN.EAALLALMERTGYSMVQE. MATEHVNGNGTEEPMDTTSAVIHSENFQTLLDAGLPQKVAEKLDEIYVAGLVAHSDLDERAIEALKEFNEDGALAVLQQFKDSDLSHVQNKSAFLCGVMKTYRQREKQGTKVADSSKGPD MATEHVNGNGTEEPMDTTSAVIHSENFQTLLDAGLPQKVAEKLDEIYVAGLVAHSDLDERAIEALKEFNEDGALAVLQQFKDSDLSHVQNKSAFLCGVMKTYRQREKQGTKVADSSKGPD MATEHVNGNGTEEPMDTTSAVIHSENFQTLLDAGLPQKVAEKLDEIYVAGLVAHSDLDERAIEALKEFNEDGALAVLQQFKDSDLSHVQNKSAFLCGVMKTYRQREKQGTKVADSSKGPD MEDHLQIP. RAPFLVVFKAPRADSHGPGCRPPLCPGLVAYVDLDERAIDALREFNEEGALSVLQQFKESDLSHVQNKSAFLCGVMKTYRQREKQGSKVQESTKGPD GVARAPFLVVFKAPRADSHGPGCRPPLCPGLVAYVDLDERAIDALREFNEEGALSVLQQFKESDLSHVQNKSAFLCGVMKTYRQREKQGSKVQESTKGPD MYIKMATLANGQADNASLSTNGLGSSPGSAGHMNGLSHSPGNPSTIP. MYIKMATLANGQADNASLSTNGLGSSPGSAGHMNGLSHSPGNPSTIP. MKNVAKKRKKSKSRSRSHERKRSKSKERKRSRDRERKKSKSRERKRSRSKERRRSRSRSRDRFFRGRYRSPYSGPKFNSAIRG.K DENKLSSANGHEERSKKRKKSKSRSRSHERKRSKSKERKRSRDRERKKSKSRERKRSRSKERRRSRSRSRDRFFRGRYRSPYSGPKFNSAIRG.K | 34 42 49 120 120 8 97 100 47 47 84 |
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| | 122 141 148 148 240 28 217 220 132 132 204 214 |
| DNC. RLFVGGIPKTKKREEILSEMKKVT. EGVVDVIVYPSAADKTKNRGFAFVEYESHRAAAMARRKLLP. DNC. RLFIGGIPKMKKREEILEEIAKVT. EGVLDVIVYASAADKMKNRGFAFVEYESHRAAAMARRKLMPGRIQLWGHQIAVDWAEPEIDVDEDVMETVKILY DNC. RLFIGGIPKMKKREEILEEIAKVT. EGVLDVIVYASAADKMKNRGFAFVEYESHRAAAMARRKLMPGRIQLWGHQIAVDWAEPEIDVDEDVMETVKILY ANN. RLFVGSIPKSKTKEQILEEFSQVT. EGLTDVILYHQPDDKKKNRGFCFLEYEDHKTAAQARRRLMSGKVKVWGNVGTVEWADPIEDPDPEVMAKVKVLF ANN. RLFVGSIPKSKTKEQILEEFSKVT. EGLTDVILYHQPDDKKKNRGFCFLEYEDHKTAAQARRRLMSGKVKVWGNVGTVEWADPIEDPDPEVMAKVKVLF ANN. RLFVGSIPKSKTKEQILEEFSKVT. EGLTDVILYHQPDDKKKNRGFCFLEYEDHKTAAQARRRLMSGKVKVWGNVGTVEWADPIEDPDPEVMAKVKVLF ANN. RLFVGSIPKNKTKENILEEFSKVT. EGLTDVILYHQPDDKKKNRGFCFLEYEDHKTAAQARRRLMSGKVKVWGNVGTVEWADPIEDPDPEVMAKVKVLF ANN. RLFVGSIPKNKTKENILEEFSKVT. EGLVDVILYHQPDDKKKNRGFCFLEYEDHKSAAQARRRLMSGKVKVWGNVTVEWADPVEEPDPEVMAKVKVLF ANN. RLFVGSIPKNKTKENILEEFSKVT. EGLVDVILYHQPDDKKKNRGFCFLEYEDHKSAAQARRRLMSGKVKVWGNVVTVEWADPVEEPDPEVMAKVKVLF ANN. RLFVGSIPKNKTKENILEEFSKVT. EGLVDVILYHQPDDKKKNRGFCFLEYEDHKSAAQARRRLMSGKVKVWGNVVTVEWADPVEEPDPEVMAKVKVLF ANN. RLFVGSIPKNKTKENILEEFSKVT. EGLVDVILYHQPDDKKKNRGFCFLEYEDHKSAAQARRRLMSGKVKVWGNVVTVEWADPVEEPDPEVMAKVKVLF ANN. RLFVGSIPKNKTKENILEEFSKVT. EGLVDVILYHQPDDKKKNRGFCFLEYEDHKSAAQARRRLMSGKVKVWGNVVTVEWADPVEEPDPEVMAKVKVLF ANN. RLFVGSIPKNTTKENILEEFSKVT. EGLVDVILYHQPDDKKKNRGFCFLEYEDHKSAAQARRRLMSGKVKVWGNVVTVEWADPVEEPDPEVMAKVKVLF ANN. RLFVGSIPKNTTKENILEEFSKVT. EGLVDVILYHQPDDKKKNRGFCFLEYEDHKKSAAQARRRLMSGKVKVWGNVVTVEWADPVEEPDPEVMAKVKVLF ANN. RLFVGSIPKNTTKENILEEFSKVT. EGLVDVILYHQPDDKKKNRGFCFLEYEDHKKSAAQARRRLMSGKVKVWGNVVTVEWADPVEEPDPEVMAKVKVLF ANN. RLFVGSIPKNTTKENILEEFSKVT. EGLVDVILYHQPDDKKKNRGFCFLEYEDHKKSAAQARRRLMSGKVKVWGNVTVEWADPVEEPDPEVMAKVKVLF ANN. RLFVGSIPKNTTKENILEEFSK TKTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT | 122 209 249 249 341 341 189 318 324 201 297 307 167 |

| | 122 305 358 358 455 455 303 433 439 298 307 393 403 263 |
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| YAAIPSLHFPATKEHLSNRAIIRAPSVREIYMNVPVGAAGVRGLGGRGYLAYTGLGRGYQVKGDKREDKLYDILPGMELTPMNPVTLKPQGIKLAPQILEEICQKNNWGQPVYQLHSAIG YP. YNALIC PNRDYFVKAGSIRGRGAAGNRAPGPRGSYLGGYSAGRGIYSRYHEGKGKQQEKGYELVPNLEIPTVNPVAIKP.GTVAIPAIGAQYSMFPAAPAPKMIEDGKIH YP. YNALIC PNRDYFVK. VAIPAIGAQYSMFPAAPAPKMIEDGKIH YP. PDYYGYEDYYD.YYG. YDYHNYRGGYED YYGYED.FQ YP. PDYYGYEDYYD.YYG. YDYHNYRGGYED YYGYED.FQ YP. PDYYGYEDYYD.YYG. YDYHNYRGGYED YYGYED.FQ YP. PDYYGYEDYYD.YYG. YDYHDYRGGYED YYGYDDGYA YP. PDYYGYEDYYDDYYG. YDYHDYRGGYED YYGYDDGYA YP. PDYYGYEDYYDDYYG. YDYHDYRGGYED YYGYDDGYA AP MTPTSGGSTPPGITAP. AVPSIPSPIGVNGFTGLPPQANGQ AP MTPTSGGSTPPGITAP. AVPSIPSPIGVNGFTGLPPQANGQ AP MTPTSGGSTPPGITAP. AVPSIPSPIGVNGFTGLPPQANGQ LA TQCFQLSNMFN. PQTEEEVGWDTEIKDD | 122 425 471 402 492 492 340 472 478 340 349 422 432 292 |
| QDQRQLFLYKIT.IPALASQNPAIHPFTPPKLSAFVDEAKTYAAEYTLQTLGIPTDGGDGTMATAAAAATAFPGYAVPNATAPVSAAQLKQAVTLGQDLAAYTTYEVYP TVEHMISPIAVQPDPASAAAAAAAAAAAAAAAAVIPTVSTPPFFQGRPITPVYTVAPNVQRIPTAGIYGASYVPFAAP.ATATIATLQKNAAAAAAVYGGYAGYIPQAFPA TVEHMISPIAVQPDPASAAAAAAAAAAAAAAAAVIPTVSTPPFFQGRPITPVYTVAPNVQRIPTAGIYGASYVPFAAP.ATATIATLQKNAAAAAAVYGGYAGYIPQAFPA TVEHMISPIAVQPDPASAAAAAAAAAAAAAAAAAAVIPTVSTPPPFPQGRPITPVYTVAPNVQRIPTAGIYGASYVPFAAP.ATATIATLQKNAAAAAAVYGGYAGYIPQAFPA TVEHMISPIAVQPDPASAAAAAAAAAAAAAAAAAVIPTVSTPPPFPQGRPITPVYTVAPNVQRIPTAGIYGASYVPFAAP.ATATIATLQKNAAAAAAVYGGYAGYIPQAFPA TVEHMISPIAVQPDPASAAAAAAAAAAAAAAAAAVIPTVSTPPPFPQGRGG.AQQQRGGQGKGVEAGPDLLQ VGARGGGGGGAAPPRGGAAPPRGRAGYSQRGGP.GSARGVRGARGG.AQQQRGGGVKGVEAGPDLLQ VRGRG.GGGGGGAAPPPRGGAAPPRGGAGYSQRGGPLGPPRGSRGGGGAQQQRGGGGGKGVEAGPDLLQ VRGRG.GGGGGGAPPPPRGGAAPPRGGAAPPRGGAGYSQRGAPLGPPRGSRGGGAQQQRGGGSRGSRGNRGGNVGGKKKADGYNQPDSKRRQTNNQQNWGSQPIAQQPLQQGGDYSGNYGYN VRGRG.GGRGGRAPPPPRGGAAPPRGGAAPPSGRAGYSQRGAPLGPPRGSRGGGPAQQQRGGSRGSRGNRGGNVGGKKKADGYNQPDSKRRQTNNQQNWGSQPIAQQPLQQGGDYSGNYGYN PAAEAVFANGIHPYPAQSPTAADPLQQAYAGVQQYAGP.AYPAAYGQISQAFPQPPPMIPQQQRGGPEGCNLFIYHLPQEFGDAELMQMFLPFGNVISS PAAEAVFANGIHPYPAQSPTAADPLQQAYAGVQQYAGPAAYPAAYGQISQAFPQPPPMIPQQQRGPEGPEGCNLFIYHLPQEFGDAELMQMFLPFGVSFDNPASAQTAIQAMNGFQIGMKR VIEECNKHGGVIHIYVDKNSAQGNVYVKCPSIAAAIAAVNALHGRWFAGKMITAAYVPLPTYHNLFPDSMTATGLLVPSRR VIEECNKHGGVIHIYVDKNSAQGNVYVKCPSIAAAIAAVNALHGRWFAGKMITAAYVPLPTYHNLFPDSMTATGLLVPSRR VIEECNKHGGVIHIYVDKNSAQGNVYVKCPSIAAAIAAVNALHGRWFAGKMITAAYVPLPTYHNLFPDSMTATGLLVPSRR VIEECNKHGGVIHIYVDKNSAQGNVYVKCPSIAAAIAAVNALHGRWFAGKMITAAYVPLPTYHNLFPDSMTATGLLVPSRR VIEECNKHGGVIHIYVDKNSAQGNVYVKCPSIAAAIAAVNALHGRWFAGKMITAAYVPLPTYHNLFPDSMTATGLLVPSRR VIEECNKHGGVIHIYVDKNSAQGNVYVKCPSIAAAIAAVNALHGRWFAGKMITAAYVPLPTYHNLFPDSMTATGLLVPSRR VIEECNKHGGVIHIYVDKNSAQGNVYVKCPSIAAAIAAVNALHGRWFAGKMITAAYVPLPTYHNLFPDSMTATGLLVPSRR VIEECNKHGGVIHIYVDKNSAQGNVYVKCPSIAAAIAAVNALHGRWFAGKMITAAYVPLPTYHNLFPDSMT | 122 533 579 510 562 561 410 591 597 438 469 503 513 373 |

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| Τ | F | A | V | Τ | A | R | G | D | G | Y | G | Τ | F | | | | 547 |
| Α | A | Ι | Q | V | Ρ | Ι | Ρ | D | V | Y | Q | Τ | Y | | | | 593 |
| Α | A | Ι | Q | V | Ρ | Ι | Ρ | D | V | Y | Q | Τ | Y | | | | 524 |
| | | | | | | | | | | | | | | | | | 562 |
| | | | | | | | | | | | | | | | | | 561 |
| | | | | | | | | | | | | | | | | | 410 |
| N | D | N | Q | Ε | F | Y | Q | D | Τ | Y | G | Q | Q | W | K | | 607 |
| N | D | N | Q | Ε | F | Y | Q | D | Τ | Y | G | Q | Q | W | K | | 613 |
| | K | V | F | V | D | R | Α | Τ | N | Q | S | K | C | F | G | G | 454 |
| L | K | V | Q | L | K | R | Ρ | K | D | A | N | R | Ρ | Y | | | 484 |
| | | | | | | | | | | | | | | | | | 503 |
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