>PmHsf8

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>PmHsf12

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>PmHsf2

MDGVVVKEEEIVTCTVGSSSSSSSSFSPQPIEGLHEVGPPPFLTKTFEMVEDPSTDAIVSWSRARNSFVVWDSHKFSTTLLPRYFKHGNFSSFIRQLNTYGFRKVDPDRWEFANEGFLGGQRHLLKTIKRRRHVSQSMQQEGGGGACVELGQYGLETELERLKRDRNVLMTEIMRLRQQQQNSKEQVMAMEGRLQTTEKKQQQIMAFLAKALNSPSFIQNLVEKKARNKELRGMEIGRKRRLAASPSVENLQEKPKTHVVDYSASQDQGELETMESQIETFFSAAALDNESSSDIVDPHSSSVGGNLGIVNETTWEELWSDELIGGNPEEDVIVVGDESDIDVAVEDLVAEPADWGGPANGDL

>PmHsf14

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>PmHsf7

MDEVQGGASSLPPFLSKTYDMVDDASTDSIVSWSASNKSFIVWNPPEFARDLLPKFFKHNNFSSFIRQLNTYGFRKIDPEQWEFANDDFIRGQPNLMKNIHRRKPVHSHSLQNLQVQGNGTSLSESERQSMKDEIERLKHEKERLGVELQRLEQERQGLELQMQFLKERLQHMERQQQTMTSFVARVLQKPGIASNPVPQLEIHGRKRRLPRIGWSYDEASNGNNQVASSQAGIRENADMEKLEQLESFLTFWEDTIFDVGEAHIQVVSNVELDESTSCVESAAISSIQLNVDAQPKSPGIDMNSEPAVVVAPEPAAAVPPEPASSKQQSSKEQTSGITASTPTGVNDVFWEHFLTENPGSVEAQEVQLEKRDSDGRKNESKPGDHGKLWWNMRNVNNLTEQMGHLTPVEKT

>PmHsf9

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>PmHsf4

MEGASTAGGGGGPAPFLLKTYDMVDDSATDEIVSWSTNKKSFIVWNPPEFARLLLPTYFKHNNFSSFIRQLNTYGFRKIDPERWEFANEDFIQDQKHLLKNIHRRKPIHSHSNPQGSMVDPERAALDDEIEKLSHDKATLEANISRFKQQRSDAKLQLEDLTQRVNSMEQRQKDLLKFLDKNVQNPTFVEHLTRKIEAMDFSACNKKRRLPDVDHLQPVVENSFVDNQSSSRSEFGNIFHQDFSSKLRLELSPAVSDINLVSRSTQSSNEDGYSPTRKISEELKGVQKRTEGLLFAPETLELSDTGTSFAFKMDSLLSRKALTVGNPRLHSLQPGLSSNEEGDGQISCQLKLTLASSPLQVNSSPHSATIPQVGQDISKSLASGLNAIGKESDIRAFTNKNPADEDMHKTCSQEATNNNQGPPPAPVRVNDVFWEQFLTERPGCSENEEASSNYRGNPYDEQDDGRLGHGMSRSAKDAETLTL

>PmHsf5

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>PmHsf11

MNYLYPVKEEFPGSSSSQSGPGDPVVMIPPQPMEGLNDIGPPPFLTKTFDMVDDPSTNRIVSWSRGGGSFVVWDPHPFVMNLLPRYFKHSNFSSFVRQLNTYGFRKVDPDRWEFANEGFVRGQKHLLKNIKRKKTPSQPLPAQQALGPCVEVGRFGLDGEIDRLRRDKQVLMMELVKLRQQQQNTRAYLQAMEQRIQGTEMKQQQMMAFLARAMQNPAFMQQLVQQKDKRKELEEAMTKKRRRPIDQGPSGVGGGKSSLKGKGTNLIKCEPLEFGDCDYEMSELEALALEMQGFGKARKEQDEESERFEGDLSIPSAIVGEDEDVIILADRLGYLGSCPK

>PmHsf3

MLKSAGKSGDGSGSGGSVAPFLRKCYEMVDDNDADSIISWSETGDSFVIWDMTQFSILLLPKYFKHSNFSSFMRQLNIYGFRKIDSDRWVFANEGFIRGQKHLLKNISRRKHPQGTDQRKALQQKDNPDGPFENIVENGLWREVENLKTDKVALKQELVKLRQHQEISENNLLLLRNRLRGMEKNQQQMLSFLVMAMQSPGFLVQLLQPKENSWRIAEPGNMLEQGVDDGIPITSDGAIVRYQPPVDEAPKPILAANSGSDKQTEFDSYIDGMNDFVVNPDFMKMLMDEKLSSLENQAPYTLPDISDDGAWEQLLLASPFLEDIEATKEDGKETVDSRMEVESTASELQESQNFDTLIEQMKKSQNFASESTVYGSNVESSQNLEHITEQMGYLASDSNSKRGTQSGK

>PmHsf16

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>PmHsf15

MAQRSVPAPFLTKTYQLVDDPSWDDVISWNESGTTFVVWKTVDFARDMLPKYFKHNNFSSFVRQLNTYGFRKTVPDQWEFANDNFRRGQKELLAEIRRRKSVTAGPGKATASEKSGGPSTPSNSGEEMASTSTSSPDSKNPGAVETAAMGQASDLSGENEKLKKENENLSSELAQTKKQCDELVGFLMDYLKVGPDQINRIMRQGSYVSTRDEDENEDDDADDDDDDDGKQKEGLKLFGVWVKGDEKKKSKRTERDEKFGVGVGGTYAKKMKRAEFGAPMLKRGKVCN

>PmHsf6

MAATTSSGQSPRTRSPAPFLSKTYDLLEKGAAEEGDSGKKIVSWNAEGSGFIVWSPAEFSELLLPKYFKHNNFSSFIRQLNTYGFKKTSPKQWEFKHEKFQKGCRHMLVEITRKKCEPSAFPVYLKASEESGSSSTTVAAAEENNRLLLMEENKNLRKQKLELQMQLSQFKALEMKLLDCLAQNMEDHQNKVRC

>PmHsf10

MAPTSVEPNGGESTSSESSHRALPTPFLTKTYQLVDDPTIDDVISWNDDGSSFVVWNPTVFARDLLPKYFKHNNFSSFVRQLNTYGFRKVIPDRWEFSNDCFRRGEKRLLCEIQRRRIMPPAPAVAVSPMATAAVVPNAKPMISPSNSGEEQVISSSSSPIRAPSELMDENEKLRKENMQLTKELADVKSLCNNIFSMVSNYAYAQSESGFPYVKPLDLMPEKRFSGDGEKEEEEASPKLFGVAIGAKRARETVGDGVEEDETGLRLQQPSGGGDVKSEPLDVDRQETPWLNQRHMANQRVCN

>PmHsf13

MASLQADQNGDSGPVNGAGGGGDSQRTLPTPFLTKTYQLVDDPSVDDLISWSEDGSAFIVWRPAEFARDLLPKYFKHNNFSSFVRQLNTYGFRKVVPDRWEFANDCFKRGEKGLLREIQRRKISPSVSASPAAITATLATVSAVAPGVSPSNSGDEQVISSNSSPVAPPATMLSRIRSCTTTSDVLEENERLRKENMQLSHELTQLRGLCNNILALMTNYASGQLEGGGGGGGGGSVMDEGKPLELSPVKEAEPSENGVVREGSKAEASAEEEEDEEEMRPRLFGVSIGVKRVRRDEEEEEQHREGSEAMKSEPSDGSSKRDQDSTWLELGK

>PmHsf18

MEGVCDQKGLLEYVRKSSPPPFLLKTYMLVEDPATDDVISWNDDGSAFVVWQPAEFARDLLPTLFKHSNFSSFVRQLNTYGFRKVSTSRWEFCNDKFRKGEKDQLCEIRRRKAWASKQQPINNIALNQAAQAMPNQDEFDEDQRSNSSTSSSSDYSSLVDENKRLKQENGVLSSELTSMKRKCKELLDLVAKCGDSAEKEEENSERVPKLFGVRLEVEGETERKRKRAEISESASILLSQACK

>PmHsf1

MALMMDNCEGILLSLDSHKSVPAPFLTKTYQLVDDPATDHIVSWGEDDATFVVWRPPEFARDLLPNYFKHNNFSSFVRQLNTYGFRKIVPDRWEFANEFFKKGEKHLLCEIHRRKTAQPHQVGFSHHHHHHHHNPHSPLGINGHHHPSFFPFPSSGSISPSDSDEPPNWCDSDSPPLPSPTGGINNHNNNNNNFMNINNASVTGLAEDNERLRRSNSVLMSELAHMRKLYNDIIYFVQNHVKPVAPSNSYPSSLLLSNPPPNSMAPAATATKPSNFNQLLGYYPAPATNAKQTPHMSTTIHHHVMNSSSPSNTTSKSSSVTILEDQQQPSSNGCKNTKLFGVPLLHSKKRLHPEEYGSNHGTSMMEASKARLILEKDDLGLHLMPPSAC

>PmHsf17

MMMEENNNVIAPFVMKTYQMVNDPTTDKLISWGQANNSFIVVDPLDFSQRLLPAYFKHNNFSSFVRQLNTYGFRKVDPDRWEFANEWFLRGQTHLLRNVVRRKHMGKNSYSNSNSTTCLLQGKHEELDDEEIVMEIARLKQEQKALEEEMENMNKRLEATERRPQQMMAFLHKVAEDPEILPRIMLEKDRTFRAQLGEKKRRVMMITSTSSSSLGMGATNSVETEDEDDGTVGVISSSPEPGFEMDSFYSTSPETSTAREWGRQRRGGGLGRAVQDPYNMNPTVSGHGIGNTSNSGYGYGNRNGGAEVGYLTEEPTPAPPPYPFSLLEGSF

>PmsHsp1

MSIIPSFRRGSIFDPFSLDVWEPFKDFPFPSSSSLSTFPEFSRENSAFLNTRIDWKETPEAHLFKADLPGLKKEEVKVEVEDDRVLQISGERNVEKEDKNDKWHRVERSSGKFLRRFQLPENAKVDEIKAAMENGVLSVTVPKAEVKKADVKAIEISG

>PmsHsp2

MAYLSVLYLKLRLLLFLNYSLLIPYHDSPTGGTICFKILLSTFPEFSQETSAFLNTMINWKETPAAHVFKAYLPGLKKEEVKVELEDGMVLQINGERNVEMVDKNDKWHRVEHSSGKFLRRFQLPENARVDEIKAAMENGVLSVTVPKAGPKPLKSLILECQLSSKTTGTRMPQQGQSFLINAINNKFRISFNKNFAPSSMSSISKAIP

>PmsHsp3

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>PmsHsp4

MSIVPINEQRGSDFDPSLALDLWDPFTDFPFPFPSSLSNVFREFNLGSSVNSRLDWRETRNAHILKAALPAFMNEDVLVELQDERVLQISTDSGSFMTKFKLPDNAKIEQHKAFMSNGVLTVTVPKEEPSRPNIRAIEISGED

>PmsHsp5

MSIIPSFRQGSIFDPFSLDVWEPFKDFPFPSSSSLSTFPKFSRENSAFLNTRIDWKETPEAHLFKADLPGLKKEEVKVEVEDDRVLQISGERNVEKEDKNDKWHRVERSSGKFLRRFQLPENAKVDEIKAAMENGVLSVTVPKAEVKKPDVKAIEISG

>PmsHsp6

MSIIPNFRRGSVFDPFSLDLWEPLKDFPFPSSSSLSTFPEFSRENSAILNTRIDWKETPEAHVFKADLPGLKKEEVKVEVEDDRVLQISGERNVEKEDKNDKWHRVERSSGRFLRRFQLPENAKVDEIKAAMENGVLSVTVPKAEVKKPDVKAIEISG

>PmsHsp7

MSIIPNFRRSSIFDPFALDLWDPFKDFQFPSSSSLSTFPEFSRENSAFLNTRIDWKETPEAHVFKADIPGMKTEEVKVEVEDDRVLQISGEKDDKNDKWHMVERSSGKFLRRFQLPENAKVNEIKAAMENGVLGVTVPKTEMKKPDAKAIEISG

>PmsHsp8

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>PmsHsp9

MALIPRTIFVGHYDPFCHDVWDPFQEFHYGFPREATSFTNSMIDWKETSDGRAYVLKEDLPGFRREEVKVDVEEGRVLRIRGEKNVEREEKKDHWHRIERSSGKFIRRLSLPENAKADKMKVFMENGELTVTVPKEKVNFYPHATRAVQISGH

>PmsHsp15

MELPAFHTYQYVFPSHLLYPYHLAPENYVHWTETPESHIFSADLPGVRKEEIKVEVEDSIYLIIRTQRIDEATEPSRSFMRKFRIPGRVDLERISAGYEDGVLTVTVPRSLRRTFYIDPADVPERLEVLARAA

>PmsHsp18

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>PmsHsp19

MALSIFGGRRSNVFDPFSLDIWDPFEGLGTLANIPPSARETTAIASTRIDWKETPEAHIFIADLPGLKKEEVKVEVDDGKVLQISGERRREQEEKNDKWHRIERSTGKFSRMFRLPENAKIDQVKASMENGVLTVTVPKEEEKRPQVKAIDISG

>PmsHsp22

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>PmsHsp24

MLYFSQKCFFSHTIRTNKPQTSLHHTLKSSVSLIFNSMTTTRKQLEVLTDDQTPHKWCVLLREDVFKKFMSQGSPAVHKVFGGGSLFSPFLFGKFFDPSDAFPLWEFDADILLAGLRSSGQSSTVDWFQTDQDYVLKADLPGDGKNNVQVYAENGKVVEISGQWKQQGGESKSTKDWRSGNWWEHGYVRKLELPQDADWRRIEASVTNDLLLEIKIHKINPLDCDISHLTLKDKEAV

>PmsHsp11

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>PmsHsp12

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>PmsHsp13

MDLRNAGNVFAFLEDMLDLAEQEPEKPRNNNHPSRAYVRDAKAMAATPADVVEYPNAYVFVVDMPGIEAGQIKVQVENDNVLVLSGKRRREEGIKESGVKYVRMERRVGKFMRKFVLPENANLDAISAVAKDGVLTVRVEKLPPPEPKRPKTIHVNVA

>PmsHsp17

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>PmsHsp10

MPRRIVMRMVAFLGLLLMLMATTIKTHALVPYPTRPSSLSLWDMTDDPFRILEQTPFTIPIDVSAAALQDTLALARADWKETATAHVITLDIPGMKKEDVKIEVEENRVLRISGERKMEKQGEGDKWHRAERTNGKFWRQFRLPANADVDQIKAHLEDGVLRITVPKFAAEKKRQPKLIDIAQHTTSDDDADIKAAKVA

>PmsHsp16

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>PmsHsp14

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>PmsHsp20

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>PmsHsp23

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>PmsHsp21

MASSVSILLRRASAPTLFSKLSSPIRSASVSPLVSRSFNSNAQVTSYDQDDRSVPVDRSTTDRSPSRRRDFGPTFFSDVFDPFSPTRSLSQVLNMMDQFMENPFLAGSRRGWDVKENGEALFLRMDMPGLDKEDVKISVEQNTLVVKGEDKDSEDEEGGGRRFSSRLDLPPNLYKLDSIRAEMKNGVLKLAIPKVKEDERKDVFEVKVE