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      *          20          *          40          *          60          *          80          *          100          *          120          *          140
Tak-sparcl : MRACCVFTCLIAATFALS VKSKPHGKH---HKLNVKDKDIAAEANPCALFTLLPLLESGTCEVEDLSSSEDNANANKEIRGIKMPKRSSKTEAVLMSDEETELLKKE---EQVEERELDEEEAEVEEGKEQSVSEDS--- : 140
Dic-sparcl : MRACLVFTCLISATFALS VKSKPHGKHGHLHKTSHTAKEKDITTEANKPCILFTTVPFASSQCEDEELSSSEDNANANKEEGEVEVTERSDKTTATLLIGEDETVIITKKEAEKEQAEERATEE--EEAKTDGKVESGETEDEAE : 148
Bah-sparcl : MRACLVFTCLIAATFALS VKSKPHGKHRLHKTSHTAKEKDITTEANKPCILFTTVPLVSSHCEDEELSSDDSANANKED--FEVTEGSDKSTAVLLSEEEIVLLIKKEAEQEAEEIVLEE--EEIA----- : 128
Lar-sparcl : MRACLVFTCLIAATFALS VKSKPHGKHGGLHKTSHTAKEKDITTEANKPCILFTTVPLVSSHCEDEESSDDNANANKEDE--FEVTEGSDKSTAVLLSEEEIVLLIKKEAEQEAEEIVLEE--EEVKEKESSEESGETEDE--- : 143
Xip-sparcl : MRVSLIFITFFITGTFEFSVTKSHGKQDGMQBTSHSTAEKDVITMFGNRPQISSTTANIEASSQCEDEEVSSAYDITNTKEGE--EVEEKIEKRTAVLLSEEEIVGLIKKEAEDEEAE--IDEVTMMDENKANDSSKAV----- : 138
Gas-sparcl : MRTGLVFTCLIAATFALS VKSKPHGKHGHLHKTSHKKEKDIISEEAAPCILEFTTVTFAGTQCEDEELSSQDNANVKKKEGEFEETEESNNRAVLLSEEEIVLLIKKEVLEEQAEDRVLEDGEEVETDMSKVEPSKVVEDE--SE : 148
Dan-sparcl : -----

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mr f l a fa sv k h g k t a k d e p q t l e e e s s n k e k a l e l l k e e e

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      *          160          *          180          *          200          *          220          *          240          *          260          *          280          *          3
Tak-sparcl : ---EMINDQLDREDAEFGAEGGEEIIDEDEDAEMLDKFIDVEMMPLESNVEKAAQVAGTDERGALFEESDGSASEIIPALDYAADSGILQALHTLTTPAKHNSQLLPET-----EGNEQKTSSEEVPAASDDSAEAADGGEMSEH : 281
Dic-sparcl : VEEKSLDDKSEMEEEVTEEE--VK--EESSEDEEMLEKEVEVRVEMMAPEKKKEKSVKIAADREEE-----TDGSTSEVPVLDLYAADSSVYQPLHILSAKIKHADDMPEPLS--KTDFDKKETSEKGLTTIVDDYEQDVQNTAEVDS : 285
Bah-sparcl : -----DREE-----QGAFLEETGLDLYAADSGIISPLQLVSPKTEHTDDTQP-----DVKEKETSEKGLQTIADDDYEQNVQNTAEVDS : 203
Lar-sparcl : VEEKTLDDKLEREDAKEEE--EEK--EESVEDAELLEKEEVEVEKI-----DREE-----QGAFLEETGLDLYAADSGIISPLQL--EKTHTDDTQP-----DVKEKETSEKGLQTIADDDYEQNVQNTAEVDS : 258
Xip-sparcl : ---KMLKYEAKKEDSEEKE-----AKAKDKAEKPAFKLT-----ERSGPVGVEETESSTSEIIPVNLDTATDSGIIIPAQVESEDNLSTENQESPSSKDLQYTKKEVGEKELLMQDMPSPEAGDREEMTDQ : 259
Gas-sparcl : VKERKLGKLEMEVTDDEE--EEVKDESVEDTEMIDKGEVEENVSLKEKEEISAVKKADEEGGSLLEESDGETESDIAVDVNYAADSGIISPLQASAKIKKKEAKER---GTRHKALTSMPQNSEAVVREEVSDQAGSNSADE : 291
Dan-sparcl : -----

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ya ds p

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      00          *          320          *          340          *          360          *          380          *          400          *          420          *          440
Tak-sparcl : DEDQQATSKDEGGQELDG-----VTPDPKESADVPM SKMGCKEEKSR---HSKRKTKGQRH MVGKHFPQSE PQSGQ---EQSQCESESSAENTGSKAKRRRAKKGWGLVGMNVPQIRATVDLYESTRSAL : 406
Dic-sparcl : DE---VSDQDQDEDESAKSKEKSSAKKEPEANVPDPQEPSSNTTEFESGSRGTGREEEKSKNDSSGSHTKGKTRKCKKNQARAKHSPQRDETTQSGQEQGQDDPQSESCSSSTNTVHAKRRRAKKGWGLVGMNVPQIRATVDLYESSRSSL : 430
Bah-sparcl : EE---VSDQDQ-----TRVAGKEEEKSKNDSSGSHTKGKTRKCKKNQARAKHSPQSEETQTGQEQSQDDPQSESCSSSTNTVQAKRRRAKKGWGLVGMNVPQIRATVDLYESSRSSL : 312
Lar-sparcl : EE---VSDQDQ-----TRVAGKDEEEKSKNDSSGSHTKGKTRKCKKNQARAKHSPQSEETQTGQEQSQDDPQSESCSSSTNTVQAKRRRAKKGWGLVGMNVPQIRATVDLYESSRSSL : 367
Xip-sparcl : SKDSSTKSKEKHASKEK-----LEATMDHQEFQSNVGLISGLRSEKKGKDES DSGAFSKRKTKGCKKNKRPKHSPCRNTHPIQDQGLNSESSESCSSSTNVVHAKRRRWNGKWGLVGMNVPQIRGSDVLYERSRSL : 396
Gas-sparcl : VN---VDPQEP-----KSRSGFKPGSEAAKEEEESKNDSSGSHSEKTRMCKKNRRARHSPCTEETQN-----PTVPCASESSSVNTAQAKRRRAKKGWGLVGMNVPQIRATVDLYESSRAPL : 404
Dan-sparcl : -----

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kt q n kh pq se ss n kakr gkwg vg npvqir dlyp r

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      *          460          *          480          *          500          *          520          *          540          *          560          *          580          *
Tak-sparcl : AGHNVHPEAPALPCDNFCKRGKTCKLDAENKPGCVCCQAPSECEPESVNLDFDRVCGTDNKTYSSELFAAKCNLEGTKRGERLHLDDYTGCKRIPCCVDTLTIQFPLMRDNLKNVLLQLYEHDSSAEGLTEKQRIRVKKIESERRI : 555
Dic-sparcl : GGGVHHPEAPALPCDNFCKRGKTCKLDAENKPGCVCCQAPSECEPESVNLDFHVCGTDNKTYETSELFAATCNLEGTKRGERLHLDDYTGCKRIPCCVDTLTIQFPLMRDNLKNVLLQLYEHDSSAEGLTEKQRIRVKKIESERRI : 579
Bah-sparcl : SG---HPDAPALPCDNFCKRGKTCKLDAENKPGCVCCQAPSECEPGLNDFHVCGTDNKTYITACELFATCNLEGTKRGERLHLDDYTGCKRIPACEDSELVQFPLMRDNLKNVLLQLYEHDSSVSSGFLTEKQRIRVKKIESERRI : 458
Lar-sparcl : SS---HPDAPALPCDNFCKRGKTCKLDAENKPGCVCCQAPSECEPGLNDFHVCGTDNKTYITACELFATCNLEGTKRGERLHLDDYTGCKRIPACEDSELVQFPLMRDNLKNVLLQLYEHDSSVSSGFLTEKQRIRVKKIESERRI : 513
Xip-sparcl : SGDIHLSRTFPCDNFCKRGKTCKLDAENKPGCVCCQAPSECEPSSMNTFHHVCGTDNKTYITSELFAATCNLEGTKRGERLHLDDYTGCKRIPCCVKNELVQFPLMRDNLKNVLLQLYEHDSSAEGLTEKQRIRVKKIESERRI : 545
Gas-sparcl : GGGINSSEAPALPCDNFCKRGKTCKLDAENKPGCVCCQAPSECEPESVNLDFHVCGTDNKTYITSELFAATCNLEGTKRGERLHLDDYTGCKRIPCCVDTLTIQFPLMRDNLKNVLLQLYEHDSSAEGLTEKQRIRVKKIESERRI : 553
Dan-sparcl : -----PCDNFCKRGKTCKLDAENKPGCVCCQAPTECEPESVNLDFHVCGTDNKTYITSELFAATCNLEGTKRGERLHLDDYTGCKRIPACVSESELVQFPLMRDNLKNVLLQLYEHDSSAEGLTEKQRIRVKKIESERRI : 137

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p dPC NF CKRGKTCKLla kP CVCP p eCP 6N F hVCGTDNkTY 3 C LFATkCnLEGTK G 4LHLDDYTG CK Ip C EL6QFPLMRDNLKNVLLQLYEHDs GfLT QQR 4vkKI EsERRI

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      600          *          620          *          640          *          660          *          680          *          700
Tak-sparcl : HAGNHSVELLAQDFEKNYNMYIYPVHWQFAQLDQHPSDRGLSHSELAPLRVPLVPMEHCTSEFFQECDAADKDKVSKEWISCFGIKNEDMIVN---QLF----- : 652
Dic-sparcl : HAGDHSVELLAQDFEKNYNMYIYPVHWQFAQLDQHPSDRGLSHSELAPLRVPLVPMEHCTSEFFQECDAADKDKVSKEWISCFGIKNEDMIVN---QLF----- : 676
Bah-sparcl : HAGDHSVELLVQDFEKNYNMYIYPVHWQFAQLDQHPSDRGLSHSELAPLRVPLVPMEHCTSEFFQECDAADKDKVSKEWISCFGIKTGKSNRNINILLYKHRCESAGYTG : 568
Lar-sparcl : HAGDHSVELLVQDFEKNYNMYIYPVHWQFAQLDQHPSDRGLSHSELAPLRVPLVPMEHCTSEFFQECDAADKDKVSKEWISCFGIKNEDMIVN---LLF----- : 610
Xip-sparcl : HAGNHSVELLAQDFEKNYNMYIYPVHWQFAQLDQHPSDRGLSHSELAPLRVPLVPMEHCTSEFFQECDAADKDKVSKEWISCFGIKNEDMIVN---LLF----- : 642
Gas-sparcl : HAGDHTVELLAQDFEKNYNMYIYPVHWQFAQLDQHPSDRGLSHSELAPLRVPLVPMEHCTSEFFQECDAADKDKVSKEWISCFGIKNEDMIVN---LLF----- : 650
Dan-sparcl : HAGDHSVELLAQDFEKNYNMYIYPVHWQFAQLDQHPSDRGLSHSELAPLRVPLVPMEHCTSEFFQECDAADKDKVSKEWISCFGIKNEDMIVN---LLF----- : 224
HAGIH vE6L QDFEKNYNMYIYPVHWQFAQ6DQHPSDRGLSHSELAPLRVPLVPMEHCTSEFFQECDAADKDKV3FKEWISCFGIK n 1

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