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gi |17933524|ref|NP_525047.1|      -----MSSE--SSTEGD-----LDLYDPLABELHNVQLVKHVTRENIDALNAKFNANLQEPFAMYLIEYQELTSKLHLEAKEQELMERLNSDQOQEDSSLVERFKEQPHYQNOI 150
gi |158298052|ref|XP_318144.4|      -----MSSADAEPTDEE-----LDAFLQLEEDLRNIRKSVIHVTRENIDALNEKFADFQOPPALYLIEYQELTSKLHLEAKEQELMERLNSDQOQEDSSLVERFKEQPHYQNOI 150
gi |33188459|ref|NP_004324.2|      MAALSGGGG-----GGAEPGQALFNGDMEPEAGAG-----AAASAAADPAIPEVWNIKQMIKLTQEHIEALLDKFGEHNPPSIYLEAYEYTSKLDALQOOREQQLLESIGNGDFSVSSASMDITVTSSSSSSL 150
gi |114616352|ref|XP_001155024.1|  MAALSGGGG-----GGAEPGQALFNGDMEPEAGAG-----AAASAAADPAIPEVWNIKQMIKLTQEHIEALLDKFGEHNPPSIYLEAYEYTSKLDALQOOREQQLLESIGNGDFSVSSASMDITVTSSSSSSL 150
gi |113199767|ref|NP_647455.2|      MAALSGGGRRSGGGGGGGGGGGGGGGGGGAGCGQALFNGDMEPEAGAG-----AAASAAADPAIPEVWNIKQMIKLTQEHIEALLDKFGEHNPPSIYLEAYEYTSKLDALQOOREQQLLESIGNGDFSVSSASMDITVTSSSSSSL 150
gi |109471941|ref|XP_231692.4|      MAALSGGGSSSGGGGGGGGGGGGGGGGGGAGCGQALFNGDMEPEAGAG-----AAASAAADPAIPEVWNIKQMIKLTQEHIEALLDKFGEHNPPSIYLEAYEYTSKLDALQOOREQQLLESIGNGDFSVSSASMDITVTSSSSSSL 150
gi |73978840|ref|XP_532749.2|      -----MVMIEVWNIKQMIKLTQEHIEALLDKFGEHNPPSIYLEAYEYTSKLDALQOOREQQLLESIGNGDFSVSSASMDITVTSSSSSSL 150
gi |45384286|ref|NP_990633.1|      MAALSGGSSA-----EGASLFGDMEPEPPPPVPLGACYAGSGGGDPATPEVWNIKQMIKLTQEHIEALLDKFGEHNPPSIYLEAYEYTSKLDALQOOREQQLLESIGNGDFSVSSASMDITVTSSSSSSL 150
gi |119891390|ref|XP_869161.2|      -----DTMNRDPERPGLELFGAGLEPACPGAAPTECQQGTPEIWNIKQMIKLTQEHIEALLDKFGEHNPPSIYLEAYEYTSKLDALQOOREQQLLESIGNGDFSVSSASMDITVTSSSSSSL 150
gi |46849736|ref|NP_991307.2|      MAALSAESPFPVFN-----DTMNRDPERPGLELFGAGLEPACPGAAPTECQQGTPEIWNIKQMIKLTQEHIEALLDKFGEHNPPSIYLEAYEYTSKLDALQOOREQQLLESIGNGDFSVSSASMDITVTSSSSSSL 150
gi |71999519|ref|NP_741430.3|      -----MSRINFKSSAS-----TPTSPHCPSPRLISLPCASSSDRDKQASPMASPTPLYPKHSDSLHLSGHSAGG-----AYEYTSKLDALQOOREQQLLESIGNGDFSVSSASMDITVTSSSSSSL 150
1.....10.....20.....30.....40.....50.....60.....70.....80.....90.....100.....110.....120.....130.....140.....150

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gi |17933524|ref|NP_525047.1|      QILQQOORLARVHCNDLTDLSLSPGSCQCGLTTRQPKILLRAHLNPOORTSVEVITGVRLCDALMKALKIRQLQTPMCEVSTHSG-RHIIPWHTDGTGLHVBEIFVRLLDKFPITRIK--HQIRKFFSLVCEGCR--RLLETFG 300
gi |158298052|ref|XP_318144.4|      --IQMQN-----EHMCGTLSRQSKMLLRAFLPNQORTSVOVIPGMRLKDALAKALKRRNLTCFCEVTAGNS--NYTPIWETDVALNCDDEVVRILLDIG-FPTVYS--HQFIRKFFSLAFCECCR--RLLETFG 300
gi |33188459|ref|NP_004324.2|      SVLPSSLSVFN-----IDVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKALKALMRGLIPECCAVYRIODGEEKPIGWDDISWLTGEEHVEVLENVPLTTHN----FVRKFFFLAFCDFCR--KLLFOGF 300
gi |114616352|ref|XP_001155024.1|  SVLPSSLSVFN-----IDVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKALKALMRGLIPECCAVYRIODGEEKPIGWDDISWLTGEEHVEVLENVPLTTHN----FVRKFFFLAFCDFCR--KLLFOGF 300
gi |113199767|ref|NP_647455.2|      -----VFQTP-----IDVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKALKALMRGLIPECCAVYRIODGEEKPIGWDDISWLTGEEHVEVLENVPLTTHN----FVRKFFFLAFCDFCR--KLLFOGF 300
gi |109471941|ref|XP_231692.4|      -----VFQTP-----IDVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKALKALMRGLIPECCAVYRIODGEEKPIGWDDISWLTGEEHVEVLENVPLTTHN----FVRKFFFLAFCDFCR--KLLFOGF 300
gi |73978840|ref|XP_532749.2|      SVLPSSLSVFN-----IDVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKALKALMRGLIPECCAVYRIODGEEKPIGWDDISWLTGEEHVEVLENVPLTTHN----FVRKFFFLAFCDFCR--KLLFOGF 300
gi |45384286|ref|NP_990633.1|      SVAPSSLSVYFN-----IDVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKALKALMRGLIPECCAVYRIODGEEKPIGWDDISWLTGEEHVEVLENVPLTTHN----FVRKFFFLAFCDFCR--KLLFOGF 300
gi |119891390|ref|XP_869161.2|      SVLPSSLSVFN-----IDVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKALKALMRGLIPECCAVYRIODGEEKPIGWDDISWLTGEEHVEVLENVPLTTHN----FVRKFFFLAFCDFCR--KLLFOGF 300
gi |46849736|ref|NP_991307.2|      PTAENLAVLQTP-----IDVARSNPKSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKALKALMRGLIPECCAVYRIODGEEKPIGWDDISWLTGEEHVEVLENVPLTTHN----FVRKFFFLAFCDFCR--KLLFOGF 300
gi |71999519|ref|NP_741430.3|      -----AGTIRGNPSPQKPIVRVFLPNKQRTVVPARCGVTVRDSLKALKALMRGLIPECCAVYRIODGEEKPIGWDDISWLTGEEHVEVLENVPLTTHN----FVRKFFFLAFCDFCR--KLLFOGF 300
.....160.....170.....180.....190.....200.....210.....220.....230.....240.....250.....260.....270.....280.....290.....300

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gi |17933524|ref|NP_525047.1|      YGQCNFRFHQRCAANRVPMLCQPPF-----MDSVYQLLLAENPDNGVG--FPGRCVAVRFNM--SRSRSRRCSSSGSSSSSKPPSS--SNHRQGRPPRISQDDRNSAPNVCINNRSVITSEV 450
gi |158298052|ref|XP_318144.4|      YQNCNFRFHQRCAVVKVPPICSKRH-----MDSVYHVLLANPESTAG--IINPG-----AGGYSTLRHPRS-----LNQHDRNSAPNVCINNVIKPFQGG-----LIRDCG 450
gi |33188459|ref|NP_004324.2|      RCOTCGYKFHQRCASTEVPMLCVNYDQL-----DLLFVSKFFEHPPIPOBEASLAETALTSGSSPAPAP--SDSIGPQILLTSPSPKSIPIPOPPRPAEDHNRN--QFGQRDRSSAPNVHINTIEPNIIDD-----LIRDCG 450
gi |114616352|ref|XP_001155024.1|  RCOTCGYKFHQRCASTEVPMLCVNYDQL-----DLLFVSKFFEHPPIPOBEASLAETALTSGSSPAPAP--SDSIGPQILLTSPSPKSIPIPOPPRPAEDHNRN--QFGQRDRSSAPNVHINTIEPNIIDD-----LIRDCG 450
gi |113199767|ref|NP_647455.2|      RCOTCGYKFHQRCASTEVPMLCVNYDQL-----DLLFVSKFFEHPVPPOBEASFPETALPSGSS--SAPP--SDSTGPQILLTSPSPKSIPIPOPPRPAEDHNRN--QFGQRDRSSAPNVHINTIEPNIIDEKFFVELEQDORDLIRDCG 450
gi |109471941|ref|XP_231692.4|      RCOTCGYKFHQRCASTEVPMLCVNYDQL-----DLLFVSKFFEHPHPPOBEAFSAETALPSGCS--SAPP--SDSIGPQILLTSPSPKSIPIPOPPRPAEDHNRN--QFGQRDRSSAPNVHINTIEPNIIDEKFFVELEQDORDLIRDCG 450
gi |73978840|ref|XP_532749.2|      RCOTCGYKFHQRCASTEVPMLCVNYDQL-----DLLFVSKFFEHPPIPOBEASIAETALTSGSSPAPAP--SDSPGPPILLTSPSPKSIPIPOPPRPAEDHNRN--QFGQRDRSSAPNVHINTIEPNIIDD-----LIRDCG 450
gi |45384286|ref|NP_990633.1|      RCOTCGYKFHQRCASTEVPMLCVNYDQL-----DLLFVSKFFEHPPIPOBEETLGETTPASGYPPVPP--SDSVGPPILLTSPSPKSIPIPOPPRPAEDHNRN--QFGQRDRSSAPNVHINTIEPNIIDD-----LIRDCG 450
gi |119891390|ref|XP_869161.2|      RCOTCGYKFHQRCASTEVPMLCVNYDQL-----DLLFVSKFFEHPPIPOBEASLAETALTSGSSPAPAP--SDSIGPQILLTSPSPKSIPIPOPPRPAEDHNRN--QFGQRDRSSAPNVHINTIEPNIIDD-----LIRDCG 450
gi |46849736|ref|NP_991307.2|      RCOTCGYKFHQRCASTEVPMLCVNYDQL-----DLLLASKFLVHHPITPOBEVSSBEGTTLPEMCPSPLP--SESTGSLCHPIVSPSPKSIPIPOPPRPAEDHNRN--QFGQRDRSSAPNVHINTIEPNIIDD-----LIRDCG 450
gi |71999519|ref|NP_741430.3|      RCFQCFKHFQRCASSFAPLVCDDLQSVKPNEDLVKELFGIASOVGEGDRSVAEIVLANLAPTSGQSPAAPTPDSSHPDLTIRKRTGVKRVMAVSPFNETSQLSFGYPRDRSSAPNINAINDAIVQHNRLLDALAEALREESRD 450
.....310.....320.....330.....340.....350.....360.....370.....380.....390.....400.....410.....420.....430.....440.....450

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gi |17933524|ref|NP_525047.1|      -----QRSLIMOARPLPHPCDTHNSNQASPTLTKHN--RPRARSADENSKNLL--LRDAKSSLENWNILAEILLIGRIGSGSFGTVY 600
gi |158298052|ref|XP_318144.4|      -----ENRHVLSNRPLQAQPNQEHSHNQASPTLTKHN--RPRARSADENSKNLL--LRDAKSSLENWNILAEILLIGRIGSGSFGTVY 600
gi |33188459|ref|NP_004324.2|      F-----RGDG-----GTTGLSATPPASLPG--SLNVKALQKSPGQREKSSSS--SSEDRNRMKTLGRDSSDDWEIPDGOITVQORIGSGSFGTVY 600
gi |114616352|ref|XP_001155024.1|  F-----RGDG-----GTTGLSATPPASLPG--SLNVKALQKSPGQREKSSSS--SSEDRNRMKTLGRDSSDDWEIPDGOITVQORIGSGSFGTVY 600
gi |113199767|ref|NP_647455.2|      F-----RGDGAPLNQLMRCLRYQSRTPSPLLHVSVEIVDFEPGPVFRG--STTGLSATPPASLPG--SLNVKALQKSPGQREKSSSS--SSEDRNRMKTLGRDSSDDWEIPDGOITVQORIGSGSFGTVY 600
gi |109471941|ref|XP_231692.4|      F-----RGDGAPLNQLMRCLRYQSRTPSPLLHVSVEIVDFEPGPVFRG--STTGLSATPPASLPG--SLNVKALQKSPGQREKSSSS--SSEDRNRMKTLGRDSSDDWEIPDGOITVQORIGSGSFGTVY 600
gi |73978840|ref|XP_532749.2|      F-----RSDGAPLNQLMRCLRYQSRTPSPLLHVSVEIVDFEPGPVFRG--STTGLSATPPASLPG--SLNVKALQKSPGQREKSSSS--SSEDRNRMKTLGRDSSDDWEIPDGOITVQORIGSGSFGTVY 600
gi |45384286|ref|NP_990633.1|      V-----RGEAPLNQLMRCLRYQSRTPSPLLHVSVEIVDFEPGPVFRG--STTGLSATPPASLPG--SLNVKALQKSPGQREKSSSS--SSEDRNRMKTLGRDSSDDWEIPDGOITVQORIGSGSFGTVY 600
gi |119891390|ref|XP_869161.2|      F-----RSDG-----GTTGLSATPPASLPG--SLNVKALQKSPGQREKSSSS--SSEDRNRMKTLGRDSSDDWEIPDGOITVQORIGSGSFGTVY 600
gi |46849736|ref|NP_991307.2|      LF-----RSDG-----GTTGLSATPPASLPG--SLNVKALQKSPGQREKSSSS--SSEDRNRMKTLGRDSSDDWEIPDGOITVQORIGSGSFGTVY 600
gi |71999519|ref|NP_741430.3|      KFGSLLSIOARRHPHFGSHILSGARMNRLHPLVDCTPLGNSPSS--CSSPPGGILGQPTLQSPNVG--FTSSLVAAHLHTPLPP--SAPPQKISPGFFNR--SGPERLDA--RPRPQKPHHEDWEILPNEFTIQYKVGSGSFGTVY 600
.....460.....470.....480.....490.....500.....510.....520.....530.....540.....550.....560.....570.....580.....590.....600

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