

245 CYP102 Sequences aligned using Clustal omega (<https://www.ebi.ac.uk/Tools/msa/clustalo/>)

IDs are as follows:

sp|P14779.2|CPXB_PRIM2 *Priestia megaterium* NBRC 15308 = ATCC 14581
ADF40088.1 Riboflavin synthase/Ferredoxin reductase FAD binding domain protein [*Priestia megaterium* DSM 319]
ADE70259.1 Riboflavin synthase/Ferredoxin reductase FAD binding domain protein [*Priestia megaterium* QM B1551]
AEN88827.1 NADPH--cytochrome P450 reductase [*Priestia megaterium* WSH-002]
KFN05180.1 bifunctional reductase [*Priestia megaterium*] strain BMS
ACZ37122.1 cytochrome P450:NADPH P450 reductase [*Priestia megaterium*] Strain KCTC 2194
ADA57055.1 NADPH-cytochrome P450 reductase 102A1V2 [*Priestia megaterium*] Strain KCTC 3712
ADA57058.1 NADPH-cytochrome P450 reductase 102A1V7 [*Priestia megaterium*] Strain KCCM 11776
ADA57059.1 NADPH-cytochrome P450 reductase 102A1V3 [*Priestia megaterium*] Strain KCCM 12503
ADA57061.1 NADPH-cytochrome P450 reductase 102A1V8 [*Priestia megaterium*] Strain ATCC 14945
ADA57062.1 NADPH-cytochrome P450 reductase 102A1V4 [*Priestia megaterium*] Strain ATCC 15451
ADA57068.1 NADPH-cytochrome P450 reductase 102A1V10 [*Priestia megaterium*] Strain ATCC 19213
AAT62301.1 NADPH-cytochrome P450 reductase [[*Bacillus thuringiensis*] serovar konkukian str. 97-27]
AAM54108.1 cytochrome P450 [*Actinosynnema pretiosum* subsp. *auranticum*]
EFQ83738.1 unspecific monooxygenase [*Aeromicrobium marinum* DSM 15272]
EFL88452.1 bifunctional P-450:nadph-p450 reductase [*Ahrensia* sp. R2A130]
BAF89518.1 FAD-binding oxidoreductase [*Azorhizobium caulinodans* ORS 571]
CBI43648.1 cytochrome P450 CYP102A3 [*Bacillus amyloliquefaciens* DSM 7]
AEB22839.1 cytochrome P450 CYP102A2 [*Bacillus amyloliquefaciens* TA208]
EDT22025.1 bifunctional P-450:NADPH-P450 reductase 1 [*Bacillus anthracis* str. A0465]
AFH84458.1 NADPH-cytochrome P450 reductase [*Bacillus anthracis* str. H9401]
ADP31197.1 putative bifunctional P-450/NADPH-P450 reductase 1 [*Bacillus atrophaeus* 1942]
ACP19384.1 NADPH-cytochrome reductase [*Bacillus cereus*] Strain BC002
ADL27534.1 bifunctional CYP450 monooxygenase CYP102A5, partial [*Bacillus cereus*] Strain CYPPB-1
ACO29732.1 bifunctional P-450:NADPH-P450 reductase 1 [*Bacillus cereus* 03BB102]
EDX65100.1 bifunctional P-450:NADPH-P450 reductase 1 [*Bacillus cereus* 03BB108]
EEK61456.1 NADPH--cytochrome P450 reductase [*Bacillus cereus* 172560W]
EEL16232.1 NADPH--cytochrome P450 reductase [*Bacillus cereus* 95/8201]
EDZ53094.1 bifunctional P-450:NADPH-P450 reductase 1 [*Bacillus cereus* AH1134]
EEL81346.1 NADPH--cytochrome P450 reductase [*Bacillus cereus* AH1271]
EEL87105.1 NADPH--cytochrome P450 reductase [*Bacillus cereus* AH1272]
EEL75761.1 NADPH--cytochrome P450 reductase [*Bacillus cereus* AH676]
ACK88541.1 bifunctional P-450:NADPH-P450 reductase 1 [*Bacillus cereus* AH820]

EJQ05303.1 hypothetical protein IC5_02130 [Bacillus cereus AND1407]
EEK50040.1 NADPH--cytochrome P450 reductase [Bacillus cereus ATCC 10876]
AAS42149.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus cereus ATCC 10987]
AAP10153.1 NADPH-cytochrome P450 reductase [Bacillus cereus ATCC 14579]
EEK83466.1 NADPH--cytochrome P450 reductase [Bacillus cereus ATCC 4342]
ACK63698.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus cereus B4264]
EJS57156.1 hypothetical protein ICE_02493 [Bacillus cereus BAG1X1-2]
EJS56605.1 hypothetical protein ICG_02407 [Bacillus cereus BAG1X1-3]
EJS68951.1 hypothetical protein ICU_02504 [Bacillus cereus BAG2X1-1]
EJQ10567.1 hypothetical protein IE1_02325 [Bacillus cereus BAG3O-2]
EJQ13433.1 hypothetical protein IE3_02332 [Bacillus cereus BAG3X2-1]
EJQ20399.1 hypothetical protein IE5_02995 [Bacillus cereus BAG3X2-2]
EJQ30236.1 hypothetical protein IE9_02894 [Bacillus cereus BAG4X12-1]
EJQ51278.1 hypothetical protein IEQ_02218 [Bacillus cereus BAG6X1-2]
EEL10858.1 NADPH--cytochrome P450 reductase [Bacillus cereus BDRD-Cer4]
EEL05393.1 NADPH--cytochrome P450 reductase [Bacillus cereus BDRD-ST196]
EEK94080.1 NADPH--cytochrome P450 reductase [Bacillus cereus BDRD-ST24]
EEK99882.1 NADPH--cytochrome P450 reductase [Bacillus cereus BDRD-ST26]
EEK55784.1 NADPH--cytochrome P450 reductase [Bacillus cereus BGSC 6E1]
ADK05784.1 NADPH-cytochrome P450 reductase [Bacillus cereus biovar anthracis str. CI]
AAU17340.1 NADPH-cytochrome P450 reductase [Bacillus cereus E33L]
EEL64394.1 NADPH--cytochrome P450 reductase [Bacillus cereus F65185]
AEW56259.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus cereus F837/76]
AFQ11690.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus cereus FRI-35]
EAL16831.1 NADPH-cytochrome P450 reductase [Bacillus cereus G9241]
ACK94296.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus cereus G9842]
EDZ58760.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus cereus H3081.97]
EJV84218.1 hypothetical protein IG3_02639 [Bacillus cereus HuA2-1]
EJQ69212.1 hypothetical protein IG7_02949 [Bacillus cereus HuA2-4]
EJQ80339.1 hypothetical protein IGC_02351 [Bacillus cereus HuA4-10]
EJV81602.1 hypothetical protein IGE_02451 [Bacillus cereus HuB1-1]
EJQ95474.1 hypothetical protein IGW_01704 [Bacillus cereus ISP3191]
EEK44229.1 NADPH--cytochrome P450 reductase [Bacillus cereus m1293]
EEK88560.1 NADPH--cytochrome P450 reductase [Bacillus cereus m1550]
EJR07451.1 hypothetical protein II5_01805 [Bacillus cereus MSX-A1]
EJR16542.1 hypothetical protein II9_02398 [Bacillus cereus MSX-D12]
BAL18840.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus cereus NC7401]
EDX69960.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus cereus NVH0597-99]

ACM13462.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus cereus Q1]
EEK75631.1 NADPH--cytochrome P450 reductase [Bacillus cereus R309803]
EEL25491.1 NADPH--cytochrome P450 reductase [Bacillus cereus Rock1-15]
EEL21990.1 NADPH--cytochrome P450 reductase [Bacillus cereus Rock1-3]
EEL33825.1 NADPH--cytochrome P450 reductase [Bacillus cereus Rock3-28]
EEL44933.1 NADPH--cytochrome P450 reductase [Bacillus cereus Rock3-42]
EEL50167.1 NADPH--cytochrome P450 reductase [Bacillus cereus Rock3-44]
EJR22930.1 hypothetical protein IIA_02965 [Bacillus cereus VD014]
EJP91231.1 hypothetical protein IC1_01786 [Bacillus cereus VD022]
EJR37623.1 hypothetical protein IIE_01787 [Bacillus cereus VD045]
EJR50635.1 hypothetical protein IIK_01704 [Bacillus cereus VD102]
EJR64551.1 hypothetical protein IIO_01875 [Bacillus cereus VD115]
EJR75620.1 hypothetical protein IK5_01158 [Bacillus cereus VD154]
EJR82049.1 hypothetical protein IK7_02513 [Bacillus cereus VD156]
EJR83659.1 hypothetical protein IK9_01715 [Bacillus cereus VD166]
EJR91135.1 hypothetical protein IKG_05772 [Bacillus cereus VD200]
EJR97241.1 hypothetical protein IKG_03039 [Bacillus cereus VD200]
EJS05852.1 hypothetical protein IKO_02508 [Bacillus cereus VDM034]
EDX58768.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus cereus W]
AAU24352.1 cytochrome P450 / NADPH-ferrihemoprotein reductase [Bacillus licheniformis DSM 13 = ATCC 14580]
ABY44122.1 cytochrome P450 [Bacillus mycoides KBAB4]
EDW23201.1 bifunctional P-450/nadph-p450 reductase (cytochrome p450(bm-3)) (p450bm-3) [Bacillus pumilus ATCC 7061]
ABV62358.1 NADPH--cytochrome reductase [Bacillus pumilus SAFR-032]
EIF12263.1 NADPH-ferrihemoprotein reductase [Bacillus sp. 5B6]
EIF14027.1 NADPH-ferrihemoprotein reductase [Bacillus sp. 5B6]
EHL75405.1 hypothetical protein HMPREF1014_01714 [Bacillus sp. 7_6_55CFAA_CT2]
EJD67577.1 YetO [Bacillus sp. 916]
EJD68347.1 YrhJ [Bacillus sp. 916]
EFV73436.1 YrhJ protein [Bacillus sp. BT1B_CT2]
CBY93692.1 cytochrome P450 [Bacillus sp. C3]
AFI27355.1 cytochrome P450 [Bacillus sp. JS]
AFI29229.1 cytochrome P450 [Bacillus sp. JS]
EIL85422.1 P-450/nadph-p450 reductase [Bacillus sp. M 2-6]
ADV93500.1 cytochrome P450 CYP102A3 [Bacillus subtilis BSn5]
ADV95715.1 putative cytochrome P450 CYP102A2 [Bacillus subtilis BSn5]
BAI84248.1 hypothetical protein BSNT_07111 [Bacillus subtilis subsp. natto BEST195]

EFG90288.1 cytochrome P450 CYP102A3 [Bacillus subtilis subsp. spizizenii ATCC 6633 = JCM 2499]
EFG91781.1 putative cytochrome P450 CYP102A2 [Bacillus subtilis subsp. spizizenii ATCC 6633 = JCM 2499]
AEP85668.1 cytochrome P450 family [Bacillus subtilis subsp. spizizenii TU-B-10]
AEP87558.1 cytochrome P450 family [Bacillus subtilis subsp. spizizenii TU-B-10]
sp|O08336.1|CYPB_BACSU Bacillus subtilis subsp. subtilis str. 168
sp|O08394.1|CYPD_BACSU Bacillus subtilis subsp. subtilis str. 168
AEP89812.1 cytochrome P450 family [Bacillus subtilis subsp. subtilis str. RO-NN-1]
AEP91702.1 cytochrome P450 family [Bacillus subtilis subsp. subtilis str. RO-NN-1]
EHA31094.1 cytochrome P450 [Bacillus subtilis subsp. subtilis str. SC-8]
ADH07708.1 NADPH-cytochrome P450 reductase [Bacillus thuringiensis BMB171]
EEM28177.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis Bt407]
AFQ14162.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus thuringiensis HD-771]
EEM95517.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis IBL 200]
EEN02344.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis IBL 4222]
AFU13781.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis MC28]
EEM70897.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis serovar andalousiensis BGSC 4AW1]
ADY22413.1 bifunctional P-450:NADPH-P450 reductase 1 [Bacillus thuringiensis serovar finitimus YBT-020]
EEM82895.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis serovar huazhongensis BGSC 4BD1]
EEM52818.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis serovar kurstaki str. T03a001]
EEM59126.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis serovar monterrey BGSC 4AJ1]
EEM47193.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis serovar pakistani str. T13001]
EEM76899.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis serovar pondicheriensis BGSC 4BA1]
EEM88909.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis serovar pulsiensis BGSC 4CC1]
EEM38196.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis serovar sotto str. T04001]
EEM21858.1 NADPH--cytochrome P450 reductase [Bacillus thuringiensis serovar tochigiensis BGSC 4Y1]
ABK86139.1 NADPH-cytochrome P450 reductase [Bacillus thuringiensis str. Al Hakam]
EJQ37805.1 hypothetical protein IEC_02333 [Bacillus toyonensis]
CCF04242.1 NADPH-ferrihemoprotein reductase [Bacillus velezensis CAU B946]
CCF05972.1 NADPH-ferrihemoprotein reductase [Bacillus velezensis CAU B946]
ABS73124.1 cytochrome P450 [Bacillus velezensis FZB42]
ABS74786.1 cytochrome P450 [Bacillus velezensis FZB42]
EKE46398.1 NADPH-ferrihemoprotein reductase [Bacillus velezensis M27]
EKE48022.1 NADPH-ferrihemoprotein reductase [Bacillus velezensis M27]
CCG48683.1 NADPH-ferrihemoprotein reductase [Bacillus velezensis YAU B9601-Y2]
AFJ60789.1 NADPH-ferrihemoprotein reductase, unspecific monooxygenase [Bacillus velezensis YAU B9601-Y2]

AFJ62808.1 NADPH-ferrihemoprotein reductase [Bacillus velezensis YAU B9601-Y2]
EEK66903.1 NADPH--cytochrome P450 reductase [Bacillus wiedmannii]
EJQ52935.1 hypothetical protein IEI_01923 [Bacillus wiedmannii]
EJS69574.1 hypothetical protein ICW_02513 [Bacillus wiedmannii]
EVJ63294.1 hypothetical protein IEO_02651 [Bacillus wiedmannii]
EKF35778.1 NADPH--hemoprotein reductase [Bacillus xiamenensis]
EGP08506.1 cytochrome P450 [Bradyrhizobiaceae bacterium SG-6C]
BAL78328.1 probable P-450/NADPH-P450 reductase [Bradyrhizobium cosmicum]
BAC48147.1 blr2882 [Bradyrhizobium diazoeficiens USDA 110]
BAL12135.1 hypothetical protein BJ6T_68860 [Bradyrhizobium japonicum USDA 6]
CCE00185.1 putative bifunctional P-450/NADPH-P450 reductase 1 (Includes: Cytochrome P450 102; NADPH--cytochrome P450 reductase) [Bradyrhizobium sp. STM 3809]
EIG57609.1 sulfite reductase, alpha subunit (flavoprotein) [Bradyrhizobium sp. WSM1253]
EHR02046.1 sulfite reductase, alpha subunit (flavoprotein) [Bradyrhizobium sp. WSM471]
EJN11211.1 cytochrome P450, partial [Bradyrhizobium sp. YR681]
CCF15606.1 bifunctional P-450/NADPH-P450 reductase [Brevibacillus laterosporus GI-9]
CCF12687.1 bifunctional P-450/NADPH-P450 reductase [Brevibacillus laterosporus GI-9]
ABB05850.1 Cytochrome P450 [Burkholderia lata]
EHP43606.1 bifunctional P-450:NADPH-P450 reductase [Cupriavidus basilensis OR16]
ABF10339.1 putative bifunctional P-450:NADPH-P450 reductase 2 (Includes: Cytochrome P450 102; NADPH--cytochrome P450 reductase) [Cupriavidus metallidurans CH34]
CAJ95800.1 probable bifunctional P-450:NADPH-P450 reductase [Cupriavidus necator H16]
AEI79937.1 bifunctional P-450:NADPH-P450 reductase [Cupriavidus necator N-1]
AFD27790.1 Bifunctional P-450:NADPH-P450 reductase 1 (plasmid) [Deinococcus gobiensis I-0]
ABC62112.1 probable bifunctional P-450:NADPH-P450 reductase [Erythrobacter litoralis HTCC2594]
EAQ27850.1 probable bifunctional P-450:NADPH-P450 reductase [Erythrobacter sp. NAP1]
EIT84377.1 cytochrome P450 family protein [Fictibacillus macauensis ZFHKF-1]
CCG43686.1 NADPH--cytochrome P450 oxidoreductase [Halobacillus halophilus DSM 2266]
ABX05160.1 cytochrome P450 [Herpetosiphon aurantiacus DSM 785]
BAJ96920.1 predicted protein [Hordeum vulgare subsp. vulgare]
GAB96874.1 putative cytochrome P450 [Kineosphaera limosa NBRC 100340]
EFH80345.1 cytochrome P450 [Ktedonobacter racemifer DSM 44963]
EFH88481.1 cytochrome P450 [Ktedonobacter racemifer DSM 44963]
EAW32450.1 probable bifunctional P-450:NADPH-P450 reductase [marine gamma proteobacterium HTCC2143]
EIZ82104.1 cytochrome P450 family protein [Methylobacterium sp. GXF4]
AEV70722.1 sulfite reductase, alpha subunit (flavoprotein) [Mycolicibacterium rhodesiae NBB3]
EFC41452.1 cytochrome p450 [Naegleria gruberi]
ACV78954.1 cytochrome P450 [Nakamurella multipartita DSM 44233]

ACV78964.1 cytochrome P450 [Nakamurella multipartita DSM 44233]
ACV81379.1 cytochrome P450 [Nakamurella multipartita DSM 44233]
EIZ78677.1 cytochrome P450 family protein [Novosphingobium sp. Rr 2-17]
EJW15291.1 NADPH-cytochrome P450 reductase [Paenibacillus alvei DSM 29]
EJW16173.1 NADPH-cytochrome P450 reductase [Paenibacillus alvei DSM 29]
EHQ58913.1 CypD [Paenibacillus dendritiformis C454]
EHQ59900.1 CypD [Paenibacillus dendritiformis C454]
EHB66924.1 cytochrome P450 [Paenibacillus lactis 154]
AFH60445.1 NADPH--cytochrome P450 reductase [Paenibacillus mucilaginosus K02]
AEI42011.1 CypD [Paenibacillus mucilaginosus KNP414]
ADO57681.1 NADPH--cytochrome P450 reductase [Paenibacillus polymyxa SC2]
EGG32133.1 bifunctional P-450/NADPH-P450 reductase [Paenibacillus sp. HGF5]
EGL17662.1 FAD binding domain protein [Paenibacillus sp. HGF7]
ACX65034.1 cytochrome P450 [Paenibacillus sp. Y412MC10]
ACT11327.1 cytochrome P450 [Pectobacterium carotovorum subsp. carotovorum PC1]
AEA28016.1 Unspecific monooxygenase., NADPH--hemoprotein reductase [Pseudonocardia dioxanivorans CB1190]
EFP68091.1 FAD binding domain protein [Ralstonia pickettii]
EGY61507.1 hypothetical protein HMPREF0989_04160 [Ralstonia sp. 5_2_56FAA]
EIE85788.1 hypothetical protein RO3G_10498 [Rhizopus delemar RA 99-880]
EIE92534.1 hypothetical protein RO3G_17132 [Rhizopus delemar RA 99-880]
BAE46296.1 cytochrome P450 (plasmid) [Rhodococcus erythropolis PR4]
BAH31604.1 cytochrome P450 [Rhodococcus erythropolis PR4]
EEN84644.1 unspecific monooxygenase [Rhodococcus erythropolis SK121]
EEN88978.1 unspecific monooxygenase [Rhodococcus erythropolis SK121]
ABG96413.1 cytochrome P450 CYP102 [Rhodococcus jostii RHA1]
BAH52971.1 cytochrome P450 [Rhodococcus opacus B4]
EHI44575.1 cytochrome P450 CYP102 [Rhodococcus opacus PD630]
EID73168.1 cytochrome P450 [Rhodococcus opacus RKJ300 = JCM 13270]
EHK83749.1 cytochrome P450 [Rhodococcus pyridinivorans AK37]
EJI96173.1 cytochrome P-450 [Rhodococcus sp. JVH1]
ABI79384.1 cytochrome P450 (plasmid) [Rhodococcus sp. NS1]
CAR47816.1 putative cytochrome P450 [Rhodococcus sp. PY11]
AEK26937.1 cytochrome P450 [Rhodococcus sp. R04]
ABE39056.1 cytochrome P450 [Rhodopseudomonas palustris BisB5]
ABD08340.1 FAD-binding oxidoreductase [Rhodopseudomonas palustris HaA2]
CAM03474.1 bifunctional P-450:NADPH-P450 reductase 1 [Saccharopolyspora erythraea NRRL 2338]
EJF54063.1 sulfite reductase, alpha subunit (flavoprotein) [Sphaerotilis grandis DSM 2844]

AFC23737.1 cytochrome P450 [Saprospira grandis str. Lewin]
ADG98903.1 cytochrome P450 [Segniliparus rotundus DSM 44985]
EGI54680.1 cytochrome P450 family protein [Sphingomonas sp. S17]
AEW97204.1 bifunctional P-450:NADPH-P450 reductase 1 [Streptantibioticus cattleyicolor NRRL 8057 = DSM 46488]
CAJ88567.1 putative cytochrome P450 [Streptomyces ambofaciens ATCC 23877]
BAC68285.1 putative cytochrome P450 / NADPH-ferrihemoprotein reductase [Streptomyces avermitilis MA-4680 = NBRC 14893]
BAC75137.1 cytochrome P450 hydroxylase [Streptomyces avermitilis MA-4680 = NBRC 14893]
EDY51256.1 bifunctional P-450:NADPH-P450 reductase [Streptomyces clavuligerus]
EFG07822.1 bifunctional P-450:NADPH-P450 reductase 1 [Streptomyces clavuligerus]
EHN78335.1 cytochrome P450 [Streptomyces coelicoflavus ZG0656]
CAB66201.1 putative cytochrome P450 [Streptomyces coelicolor A3(2)]
EGG48117.1 P450-like protein [Streptomyces griseoaurantiacus M045]
EFL20831.1 probable bifunctional P-450/NADPH-P450 reductase 1 [Streptomyces himastatinicus ATCC 53653]
EFL28515.1 bifunctional P-450/NADPH-P450 reductase [Streptomyces himastatinicus ATCC 53653]
AEY93311.1 cytochrome P450 [Streptomyces hygroscopicus subsp. jinggangensis 5008]
AEY93321.1 bifunctional P-450:NADPH-P450 reductase 1 [Streptomyces hygroscopicus subsp. jinggangensis 5008]
EFD71156.1 cytochrome P450 [Streptomyces lividans TK24]
CBG67789.1 putative P450-like protein [Streptomyces scabiei 87.22]
CBG68112.1 P450-like protein [Streptomyces scabiei 87.22]
EFL10082.1 cytochrome P450 [Streptomyces sp. AA4]
EFF88741.1 conserved hypothetical protein [Streptomyces sp. e14]
EDY58112.1 cytochrome P450 [Streptomyces sviceus ATCC 29083]
EFL36674.1 cytochrome P450 [Streptomyces viridochromogenes DSM 40736]
EFL36680.1 bifunctional P-450:NADPH-P450 reductase 1, partial [Streptomyces viridochromogenes DSM 40736]
EFE65335.1 cytochrome P450 [Streptomyces viridosporus ATCC 14672]
EGX54696.1 cytochrome P450, partial [Streptomyces zinciresistens K42]
ACZ89135.1 cytochrome P450 [Streptosporangium roseum DSM 43021]
ABD83817.1 P450 hydroxylase [uncultured soil bacterium]
ADU39615.1 cytochrome P450 [Variovorax paradoxus EPS]
EJL72014.1 sulfite reductase, alpha subunit (flavoprotein) [Variovorax sp. CF313]

Alignment:

sp P14779.2 CPXB_PRIM2	-----	0
ADF40088.1	-----	0
ADE70259.1	-----	0
AEN88827.1	-----	0
KFN05180.1	-----	0
ACZ37122.1	-----	0
ADA57055.1	-----	0
ADA57058.1	-----	0
ADA57059.1	-----	0
ADA57061.1	-----	0
ADA57062.1	-----	0
ADA57068.1	-----	0
AAT62301.1	-----	0
AAM54108.1	-----	0
EFQ83738.1	-----	0
EFL88452.1	-----	0
BAF89518.1	-MSETSTPPALKSVDLGLAAGTVRVGWFPGASREAVLAAVRGAAG-----LSGE-----T	49
CBI43648.1	-----	0
AEB22839.1	-----	0
EDT22025.1	-----	0
AFH84458.1	-----	0
ADP31197.1	-----	0
ACP19384.1	-----	0
ADL27534.1	-----	0
ACO29732.1	-----	0
EDX65100.1	-----	0
EEK61456.1	-----	0
EEL16232.1	-----	0
EDZ53094.1	-----	0
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EEL87105.1	-----	0
EEL75761.1	-----	0
ACK88541.1	-----	0
EJQ05303.1	-----	0
EEK50040.1	-----	0
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AAP10153.1	-----	0
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ACK63698.1	-----	0
EJS57156.1	-----	0
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EJS68951.1	-----	0
EJQ10567.1	-----	0
EJQ13433.1	-----	0
EJQ20399.1	-----	0
EJQ30236.1	-----	0
EJQ51278.1	-----	0
EEL10858.1	-----	0
EEL05393.1	-----	0
EEK94080.1	-----	0
EEK99882.1	-----	0
EEK55784.1	-----	0
ADK05784.1	-----	0
AAU17340.1	-----	0
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AEW56259.1	-----	0
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EDZ58760.1	-----	0
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EJQ69212.1	-----	0
EJQ80339.1	-----	0
EJV81602.1	-----	0
EJQ95474.1	-----	0
EEK44229.1	-----	0
EEK88560.1	-----	0
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ACM13462.1	-----	0
EEK75631.1	-----	0
EEL25491.1	-----	0

EEL21990.1	-----	0
EEL33825.1	-----	0
EEL44933.1	-----	0
EEL50167.1	MFSQTS----IRRNSLSCCYHPLHINWPHSCF----GELYNCNKRQKEMETSY-----	45
EJR22930.1	-----	0
EJP91231.1	-----	0
EJR37623.1	-----	0
EJR50635.1	-----	0
EJR64551.1	-----	0
EJR75620.1	-----	0
EJR82049.1	-----	0
EJR83659.1	-----	0
EJR91135.1	-----	0
EJR97241.1	-----	0
EJS05852.1	-----	0
EDX58768.1	-----	0
AAU24352.1	-----	0
ABY44122.1	-----	0
EDW23201.1	-----	0
ABV62358.1	-----	0
EIF12263.1	-----	0
EIF14027.1	-----	0
EHL75405.1	-----	0
EJD67577.1	-----	0
EJD68347.1	-----	0
EFV73436.1	-----	0
CBY93692.1	-----	0
AFI27355.1	-----	0
AFI29229.1	-----	0
EIL85422.1	-----	0
ADV93500.1	-----	0
ADV95715.1	-----	0
BAI84248.1	-----	0
EFG90288.1	-----	0
EFG91781.1	-----	0
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AEP87558.1	-----	0
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AEP91702.1	-----	0
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ADH07708.1	-----	0
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AFQ14162.1	-----	0
EEM95517.1	-----	0
EEN02344.1	-----	0
AFU13781.1	-----	0
EEM70897.1	-----	0
ADY22413.1	-----	0
EEM82895.1	-----	0
EEM52818.1	-----	0
EEM59126.1	-----	0
EEM47193.1	-----	0
EEM76899.1	-----	0
EEM88909.1	-----	0
EEM38196.1	-----	0
EEM21858.1	-----	0
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EJQ37805.1	-----	0
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CCF05972.1	-----	0
ABS73124.1	-----	0
ABS74786.1	-----	0
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EKE48022.1	-----	0
CCG48683.1	-----	0
AFJ60789.1	-----	0
AFJ62808.1	-----	0
EEK66903.1	-----	0
EJQ52935.1	-----	0
EJS69574.1	-----	0
EJV63294.1	-----	0
EKF35778.1	-----	0
EGP08506.1	-----	0
BAL78328.1	-----	0

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BAL12135.1		0
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EHR02046.1		0
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CCF15606.1		0
CCF12687.1		0
ABB05850.1		0
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ABF10339.1		0
CAJ95800.1	--MPPPI-	5
AEI79937.1	--MPPPI-	5
AFD27790.1		0
ABC62112.1		0
EAQ27850.1		0
EIT84377.1		0
CCG43686.1		0
ABX05160.1		0
BAJ96920.1		0
GAB96874.1	--MTEN--	4
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EFH88481.1		0
EAW32450.1		0
EIZ82104.1		0
AEV70722.1		0
EFC41452.1	--MSTQ--	4
ACV78954.1		0
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ACV81379.1		0
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EJW15291.1		0
EJW16173.1		0
EHQ58913.1		0
EHQ59900.1		0
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AFH60445.1		0
AEI42011.1		0

ADO57681.1	-----	0
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EGL17662.1	-----	0
ACX65034.1	-----	0
ACT11327.1	-----	0
AEA28016.1	-----	0
EFP68091.1	-----	0
EGY61507.1	-----	0
EIE85788.1	-MSTENLTTLIVA-- LKNATNIEKEGCIIQFGNGANLDTIRALAAEKLNITDGYANIRLL	57
EIE92534.1	-MSTDNTTSLIVV-- LRNTSDVEKDGRIRFGNGANLDTIRSLAAEKLAITGGYANIQLF	57
BAE46296.1	-----MNG-----PRGS	7
BAH31604.1	-----	0
EEN84644.1	-----	0
EEN88978.1	-MQNASSEGFRKT-----VGSENGWINTRSASGSLSRQPWFSR-----SVGA-LLPPGW	47
ABG96413.1	-----MPV-	3
BAH52971.1	-----	0
EHI44575.1	-----MVMPV-	5
EID73168.1	-----	0
EHK83749.1	-----	0
EJI96173.1	-----	0
ABI79384.1	-----M-	1
CAR47816.1	-----MVS-G-	4
AEK26937.1	-----	0
ABE39056.1	-----	0
ABD08340.1	-----	0
CAM03474.1	-----	0
EJF54063.1	-----	0
AFC23737.1	-----	0
ADG98903.1	-----	0
EGI54680.1	-----	0
AEW97204.1	-----	0
CAJ88567.1	-----	0
BAC68285.1	-----	0
BAC75137.1	-----	0
EDY51256.1	-----	0
EFG07822.1	-----MNP-	3
EHN78335.1	-----	0
CAB66201.1	-----	0

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EFL20831.1		-----	0
EFL28515.1		-----	0
AEY93311.1		-----	0
AEY93321.1		-----	0
EFD71156.1		-----	0
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EFF88741.1		-----	0
EDY58112.1		-----	0
EFL36674.1		-----	0
EFL36680.1	-MPPCH-	-----AG-----APRARAERVPGLHN-----HVGPPCGPPGA	32
EFE65335.1		-----	0
EGX54696.1		-----	0
ACZ89135.1		-----	0
ABD83817.1		-----	0
ADU39615.1		-----	0
EJL72014.1		-----	0

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ADE70259.1 -----M-PIKEMPQPKT 11
AEN88827.1 -----M-TIKEMPQPKT 11
KFN05180.1 -----M-TIKEMPQPKT 11
ACZ37122.1 -----M-TIKEMPQPKT 11
ADA57055.1 -----M-TIKEMPQPKT 11
ADA57058.1 -----M-TIKEMPQPKT 11
ADA57059.1 -----M-TIKEMPQPKT 11
ADA57061.1 -----M-TIKEMPQPKT 11
ADA57062.1 -----M-TIKEMPQPKT 11
ADA57068.1 -----M-TIKEMPQPKT 11
AAT62301.1 -----MDKKVSAIPQPKT 13
AAM54108.1 -----MVATGTRIPGPKP 13
EFQ83738.1 -----MRNDWS-GQTFPHPPG 15
EFL88452.1 -----MSQTTVRIPTPKK 13
BAF89518.1 AF---HVETADGVIA---LDDSVPAGTRLRLVV---QGEVPSSAAPALHRPVPGPKP 98
CBI43648.1 -----MK-QLSAIPQPKT 12
AEB22839.1 -----MK-ETSPIPKPKT 12
EDT22025.1 -----MDKKVSAIPQPKT 13
AFH84458.1 -----MLFERVFMDKKVSAIPQPKT 21
ADP31197.1 -----MK-KTSPIPQPKT 12
ACP19384.1 -----MDKKVSAIPQPKT 13
ADL27534.1 -----MEKKVSAIPQPKT 13
ACO29732.1 -----MDKKVSAIPQPKT 13
EDX65100.1 -----MDKKVSAIPQPKT 13
EEK61456.1 -----MEKKVSAIPQPKT 13
EEL16232.1 -----MLFERVFMDKKVSAIPQPKT 21
EDZ53094.1 -----MEKKVSAIPQPKT 13
EEL81346.1 -----MG--YFILCFFERVFLMDKKVSDIPQPKT 27
EEL87105.1 -----MG--YFISCFERVFLMDKKVSAIPQPKT 27
EEL75761.1 ----- 0
ACK88541.1 -----MDKKVSAIPQPKT 13
EJQ05303.1 -----MDKKVSAIPQPKT 13
EEK50040.1 -----MEKKVSAIPQPKT 13
AAS42149.1 -----MDKKVSAIPQPKT 13
AAP10153.1 -----MEKKVSAIPQPKT 13
EEK83466.1 -----MLFERVFMDKKVSGIPQPKT 21

ACK63698.1	-----	0
EJS57156.1	-----	MEKKVSAIPQPKT 13
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EJS68951.1	-----	MR-KLNDIPQPKT 12
EJQ10567.1	-----	MEKKVSAIPQPKT 13
EJQ13433.1	-----	MDKKVSAIPQPKT 13
EJQ20399.1	-----	MEKKVSAIPQPKT 13
EJQ30236.1	-----	MEKKVSAIPQPKT 13
EJQ51278.1	-----	MK-KLNDIPQPKT 12
EEL10858.1	-----	MEKKVSAIPQPKT 13
EEL05393.1	-----	MG---YFISCFERVFFLMDKKVSAIPQPKT 27
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EEK99882.1	-----	MFVMDKKVSAIPQPKT 16
EEK55784.1	-----	MLFERVFMDKKVSAIPQPKT 21
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AAU17340.1	-----	MDKKVSAIPQPKT 13
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AFQ11690.1	-----	MDKKVSAIPQPKT 13
EAL16831.1	-----	MDKKVSGIPQPKT 13
ACK94296.1	-----	MEKKVSAIPQPKT 13
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EJQ95474.1	-----	MDKKVSAIPQPKT 13
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EEL21990.1	-----	MLFERVFFLMDKKVSAIPQPKT 21
EEL33825.1	-----	MLFERVFFLMDKKVSAIPQPKT 21

EEL44933.1	-----MLFERVFVMDKKVSAIPQPKT	21
EEL50167.1	QTHLKS金陵KVVQIGKIS-----QARI---ITKTCFSFERMFLMK-KLNDIIPQPKT	91
EJR22930.1	-----MEKKVSAIPQPKT	13
EJP91231.1	-----MEKKVSAIPQPKT	13
EJR37623.1	-----MEKKVSAIPQPKT	13
EJR50635.1	-----MDKKVSAIPQPKT	13
EJR64551.1	-----MDKKVSAIPQPKT	13
EJR75620.1	-----MEKKVSAIPQPKT	13
EJR82049.1	-----MEKKVSAIPQPKT	13
EJR83659.1	-----MEKKVSAIPQPKT	13
EJR91135.1	-----MR-KFMPPIPQPKT	12
EJR97241.1	-----MEKKVSAIPQPKT	13
EJS05852.1	-----MDKKVSAIPQPKT	13
EDX58768.1	-----MDKKVSAIPQPKT	13
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ABY44122.1	-----MDKKVSAIPQPKT	13
EDW23201.1	-----MQ-QTSIIPKPKT	12
ABV62358.1	-----MQ-QTSIIPKPKT	12
EIF12263.1	-----MK-ETGPIPIPQPKT	12
EIF14027.1	-----MK-QLSAIPQPKT	12
EHL75405.1	-----MEKKVSAIPQPKT	13
EJD67577.1	-----MK-ETGPIPIPQPKT	12
EJD68347.1	-----MK-QLSAIPQPKT	12
EFV73436.1	-----MD---EMLFSKTERMIFMN-KLDGIPIPKT	26
CBY93692.1	-----MDKKVSAIPQPKT	13
AFI27355.1	-----MK-ETSPIPIPQPKT	12
AFI29229.1	-----MK-QASAIPQPKT	12
EIL85422.1	-----MQ-QTSIIPKPKT	12
ADV93500.1	-----MK-QASAIPQPKT	12
ADV95715.1	-----MK-ETSPIPIPQPKT	12
BAI84248.1	-----MK-ETSPIPIPQPKT	12
EFG90288.1	-----MK-QASAIPQPKT	12
EFG91781.1	-----MK-ETSPIPIPQPKT	12
AEP85668.1	-----MK-ETSPIPIPQPKT	12
AEP87558.1	-----MK-QASAIPQPKT	12
sp O08336.1 CYPB_BACSU	-----MK-QASAIPQPKT	12
sp O08394.1 CYPD_BACSU	-----MK-ETSPIPIPQPKT	12
AEP89812.1	-----MK-ETSPIPIPQPKT	12

AEP91702.1	MK-QASAIPQPKT	12
EHA31094.1	MLMK-QASAIPQPKT	14
ADH07708.1	MEKKVSAIPQPKT	13
EEM28177.1	MEKKVSAIPQPKT	13
AFQ14162.1	MEKKVSAIPQPKT	13
EEM95517.1	MEKKVSVIPQPKT	13
EEN02344.1	MEKKVSAIPQPKT	13
AFU13781.1	MLFERVFLMDKKVSAIPQPKT	21
EEM70897.1	MLFERVFVMDKKVSAIPQPKT	21
ADY22413.1	MDKKVSAIPQPKT	13
EEM82895.1	MEKKVSAIPQPKT	13
EEM52818.1	MEKKVSAIPQPKT	13
EEM59126.1	MLFERVFLMDKKVSAIPQPKT	21
EEM47193.1		0
EEM76899.1	MLFERVFVMDKKVSAIPQPKT	21
EEM88909.1	MLFERVFVMDKKVSAIPQPKT	21
EEM38196.1	MEKKVSAIPQPKT	13
EEM21858.1	MFVMDKKVSAIPQPKT	16
ABK86139.1	MLFERVFLMDKKVSAIPQPKT	21
EJQ37805.1	MDKKVSAIPQPKT	13
CCF04242.1	MK-ETGPIPQPKT	12
CCF05972.1	MK-QLSAIPQPKT	12
ABS73124.1	MK-ETGPIPQPKT	12
ABS74786.1	MK-QLSAIPQPKT	12
EKE46398.1	MK-ETGPIPQPKT	12
EKE48022.1	MK-QLSAIPQPKT	12
CCG48683.1	MK-ETGPIPQPKT	12
AFJ60789.1	MLERVLFMK-ETGPIPQPKT	19
AFJ62808.1	MK-QLSAIPQPKT	12
EEK66903.1	MG--YFILCFERVFLMDKKVSAIPQPKT	27
EJQ52935.1	MDKKVSAIPQPKT	13
EJS69574.1	MEKKISAIPQPKT	13
EJV63294.1	MEKKVSAIPQPKT	13
EKF35778.1	MH-QTSIIPKPKT	12
EGP08506.1	MSSPNKLNPPIPQPKT	15
BAL78328.1	MSSKNRLDPIPQPKT	15
BAC48147.1	MSSKNRLDPIPQPKT	15
BAL12135.1	MSSKNRLDPIPQPKT	15

CCE00185.1	-----MPSSNRLSPIPOPPA	15
EIG57609.1	-----MSSKNRLDPIPQPPT	15
EHR02046.1	-----MSSKNRLDPIPQPPT	15
EJN11211.1	-----MSSKNRLDPIPQPPT	15
CCF15606.1	-----0	
CCF12687.1	-----MK-EVGYIPQPKT	12
ABB05850.1	-----MKSSSLVPQPPL	12
EHP43606.1	RVS-----TPASTA-PAAP---ATAAAPAAHPARALEPIPRDPG	36
ABF10339.1	-----MSTATPAAALEPIPRDPG	18
CAJ95800.1	ELS-----SP-DQA-SDAP---HQAPARSMHAPIPEPIPRDPG	38
AEI79937.1	ELS-----SP-DQA-SDAP---HPSPARPMHAPNPEPIPRDPG	38
AFD27790.1	-----MTLPIPAPQA	10
ABC62112.1	-----MDAPTLAPIPQPPG	15
EAQ27850.1	-----MATNATLTPIPQPPG	15
EIT84377.1	-----MA-ETIAIPQPKT	12
CCG43686.1	-----ME-KTNHLPQPKS	12
ABX05160.1	-----MSISSLIRYIPQPPT	15
BAJ96920.1	-----MYEKIPQPPT	10
GAB96874.1	RS----HSPSPT--STT---QTTQTTQTTQAHTP---TEASKPTQAAPASTPVPGPEP	50
EFH80345.1	-----MQIEEKTLSIPQPQK	16
EFH88481.1	-----MLRSQLDTI-----	9
EAW32450.1	-----MSQIPEPKG	9
EIZ82104.1	-----MAPTAPIPQPRP	12
AEV70722.1	-----MAELTPSLPPQLDDVPSAVG	20
EFC41452.1	NN----EAQCPF--ASA-----DSRRN-----SKGSNGSNQPCKEEPPIPQPEP	41
ACV78954.1	-----MTDKAIPHKA	11
ACV78964.1	-----MTEPITLDQLPGPRG	15
ACV81379.1	-----MTAPISVDQLPGPHG	15
EIZ78677.1	-----MTDLIPQPRT	10
EJW15291.1	-----MSISIPQPKT	10
EJW16173.1	-----MSES-NSPHIPQPKT	14
EHQ58913.1	-----MTIAIPQPRT	10
EHQ59900.1	-----MP-ESVAVPQPKT	12
EHB66924.1	-----M-LTKGIPQPKT	11
AFH60445.1	-----MT-QTSQIPQPKT	12
AEI42011.1	-----MT-QTSQIPQPKT	12
ADO57681.1	-----MT-STNSIPQPKT	12
EGG32133.1	-----MT-QTKEVPQPKT	12

EGL17662.1	-----MAK-SEPLIPOPKT	13
ACX65034.1	-----MT-QTKEVPQPKT	12
ACT11327.1	-----MSGKTAVPQPPI	12
AEA28016.1	-----MTTTEIREASEIPGPPP	17
EFP68091.1	-----MRS-----ASELPANASPAAEPIPQPKG	24
EGY61507.1	-----MRS-----ASELPANASPAAEPIPQPKG	24
EIE85788.1	NS----KGELFDGIDKV-----R-----NQQIVYVDTKTKIQTIPGPMK	93
EIE92534.1	NS----NGELLGGIDDL-----R-----QQQVVYVDIKELIRETVPGPTK	93
BAE46296.1	RTRP--RRASLVNLAVLGVLVHTVLMSSDKCPYPKSATRAGEITAVQPQVFESIPSPAW	65
BAH31604.1	-----MSVDTTPEATTDAIRHPAW	20
EEN84644.1	-----MSVDTTPEATTDAIRHPAW	20
EEN88978.1	RLCV--PSFILRRVGLGSETDARLSTMSSDKCPYPSETPTSEVAKPVLEFESIPSPAW	105
ABG96413.1	-----TVLLDTGSVRGLRT-RHQFSNAGHIDTG-VDMSVE-SLHTTADATIPHPRW	52
BAH52971.1	-----MSVE-SLHTTADAIIPHPRW	19
EHI44575.1	-----TVLLDTGSVRRTLRT-RHQFSNAGHIDTG-VDMSVE-SLHTTAEATIPHPRW	54
EID73168.1	-----MSVE-SLHTTSEATIPHPRW	19
EHK83749.1	-----0	
EJI96173.1	-----MSVE-SLHTTADATIPHPRW	19
ABI79384.1	-----RDSADR---EGVRHTLAMTSVGSAR-SGESAPSGGAEGSAGVEPRMPRPSR	48
CAR47816.1	-----GGSAE---IAVRHTRAMTSVGSAS-SGDTAPNAPAEGKV-AEQRMPRPSW	50
AEK26937.1	-----MHTRRMGSPTT-----TSITMTTGAQPIQPWRW	28
ABE39056.1	-----MPSTNKLDPIPHPPK	15
ABD08340.1	-----MSSSNKLAPIPHPPK	15
CAM03474.1	-----MTQT-PLH-----HD	9
EJF54063.1	-----MLHSP---TNQLFSLMKSPVSKPIPHPI	26
AFC23737.1	-----MKSPVSKPIPHPI	14
ADG98903.1	-----MTDPIAAEKPTRAGLPHPRF	20
EGI54680.1	-----MATIPQPKG	9
AEW97204.1	-----MSPT-PHSASG-----TTGAAAATPGAA-SPAP	26
CAJ88567.1	-----MAG-TTNGLAPDGLPKG-FR---SAELGWPELHRIPRPPY	35
BAC68285.1	-----MTTQPETDLRPIRSRPG	17
BAC75137.1	-----MAQSTRTVIPKG-FR---SAELGWPELHRIPHPPH	31
EDY51256.1	-----0	
EFG07822.1	-----STALRRSTR-----ATGRR--IG-T-----APGAGSV-PERT	31
HN78335.1	-----MAQ-TAREPARDGLPKG-FR---SAELGWPELHRIPHPPY	35
CAB66201.1	-----MAQ-TAREPARDGLPKG-FR---SAELGWPELHRIPHPPY	35
EGG48117.1	-----MARTRTEAAA-RTAPGTPEGLPKG-FR---GAEAGWPALHRIPHPPR	42
EFL20831.1	-----MEGKLMTKT-S-----LRGIEPI-PQRP	21

EFL28515.1	-----MTET-PLLP-----AGTAEG-DSSD	18
AEY93311.1	-----MA-ATTETMETGLPKG-FR---SAEQGWP ELRRIPRPPH	34
AEY93321.1	-----MPPT-A-----LRTEPA-GTLT	15
EFD71156.1	-----MAQ-TAREPARDGLPKG-FR---SAELGWPELHRIPH PPY	35
CBG67789.1	-----MTHA-T-----ERGTESI-PERS	16
CBG68112.1	-----MTATTAATAISG-FR---SAELGWPELHRIPH PPF	31
EFL10082.1	GAQARPHPPSLLDTGSA-----AGDRDP IGCG-F---SRRERTLDTTAIPH RPG	51
EFF88741.1	-----MTQA-P-----PTKPQAI-PERP	16
EDY58112.1	-----MAETTTATRPTG-FR---SAELGWP DLHRIPH PPR	31
EFL36674.1	-----MRTGRWIKGDRD-MTEAPIRAGMPKG-FR---SAELGWPELDR IHP PH	44
EFL36680.1	VDHA---GSQYFRTAK-----GSCRVMRPT-A-----QSPRPA-DSLP	65
EFE65335.1	-----MAETTPGGPPTG-FR---SAELGWPELHRIPH PPY	32
EGX54696.1	-----MAQTRTGDGPKG-FR---SAEHGWPQLSRIPH PPY	32
ACZ89135.1	-----MTDHAGSARIQP PPM	15
ABD83817.1	-----MASNNKMSPIQP PPT	15
ADU39615.1	-----MAGKNSLYPIPH PAK	15
EJL72014.1	-----MAGKNSLHPIPH PAK	15

sp P14779.2 CPXB_PRIM2	F-GELKNLPLLN---TDKPVQALMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
ADF40088.1	F-GELKNLPLLN---TDKPVQALMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
ADE70259.1	F-GELKNLPLLN---TDKPIQTLMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
AEN88827.1	F-GELKNLPLLN---TDKPIQTLMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
KFN05180.1	F-GELKNLPLLN---TDKPVQALMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
ACZ37122.1	F-GELKNLPLLN---TDKPIQTLMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
ADA57055.1	F-GELKNLPLLN---TDKPIQTLMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
ADA57058.1	F-GELKNLPLLN---TDKPIQTLMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
ADA57059.1	F-GELKNLPLLN---TDKPVQALMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
ADA57061.1	F-GELKNLPLLN---TDKPIQTLMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
ADA57062.1	F-GELKNLPLLN---TDKPIQTLMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
ADA57068.1	F-GELKNLPLLN---TDKPIQTLMKIADEL-GEIFKFEAPGR----VTRYLSSQRLIKE	61
AAT62301.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFQIQTLS-----TIVVSGHELVAE	63
AAM54108.1	L-PLVGNLLDVLTSLDTDVDFLDRCHREH-GGIVALTFA-GQ----RQVFASSHELVAR	66
EFQ83738.1	RLRFVGDVRSVD---PSRPLMSMLQHARTL-GEIFEFQVF-DQ----KFVFVAGARLGAE	66
EFL88452.1	Q-PFIGNMLSID---ANQPLQGLMEMTREL-GPIFRMDMM-GT----PMVIASGYDIVNE	63
BAF89518.1	Y-PVVGNLPELH--NAEGLVAAVDALHAKH-GEFFAFQVG-GK----RAYFCSDADISE	149
CBI43648.1	Y-GPLKNLPHLE---KEKLSQLSLWKIAEEY-GPIFRFEFPSS----VGVFVSGRELAAE	62
AEB22839.1	F-GPLGNLPLID---KDKPTMSLIKLAKEQ-GPIFQLHTPAG-----TIVVSGHELVKE	62
EDT22025.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRMQTLS-----TIVVSGHELVAE	63
AFH84458.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRMQTLS-----TIVVSGHELVAE	71
ADP31197.1	F-GPLGNLPLID---KDRPTLSLSKLADEY-GPIFQLNTPAG-----TTIVVSGHELVEE	62
ACP19384.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIVVSGHELVAE	63
ADL27534.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIVVSGHELVAE	63
ACO29732.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----TIVVSGHELVAE	63
EDX65100.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----TIVVSGHELVAE	63
EEK61456.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIVVSGHELVAE	63
EEL16232.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRMQTLS-----TIVVSGHELVAE	71
EDZ53094.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIVVSGHELVAE	63
EEL81346.1	Y-GLLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIVVSGHELVAE	77
EEL87105.1	Y-GLLGNLPLID---KDKPTLSFIKIAEEY-GPIFRIQTLS-----AIVVSGHELVAE	77
EEL75761.1	-----MVAE 4	
ACK88541.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFQIQTLS-----TIVVSGHELVAE	63
EJQ05303.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFQIQTLS-----TIVVSGHELVAE	63
EEK50040.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----AIVVSGHELVAE	63
AAS42149.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIVVSGHELVAE	63
AAP10153.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIVVSGHELVAE	63
EEK83466.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFQIQTLS-----TIVVSGHELVAE	71

ACK63698.1	-----	MVAE 4
EJS57156.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EJS56605.1	Y-GLLGNLPLID---KDKPTLSFIKIAEEY-GPIFRIQTLSD-----AIIIVSGHELVAE	63
EJS68951.1	F-GPLGNVPLLD---KDKPLLSFIKLAEY-GPIFQLQTPGG-----TAIIVSGHELVEE	62
EJQ10567.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EJQ13433.1	Y-GLLGNLPLID---KDKPTLSFIKIAEEY-GPIFRIQTLSD-----TIIIVSGHELVAE	63
EJQ20399.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EJQ30236.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EJQ51278.1	F-GPLGNVPLLD---KDKPLLSFIKLAEY-GPIFQLQTPGG-----TAIIVSGYELVEE	62
EEL10858.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EEL05393.1	Y-GLLGNLPLID---KDKPTLSFIKIAEEY-GPIFRIQTLSD-----TIIIVSGHELVAE	77
EEK94080.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	66
EEK99882.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLS-----TIIIVSGHELVAE	66
EEK55784.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFRIQTLSD-----TIIIVSGHELVAE	71
ADK05784.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
AAU17340.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFRMQTLSD-----AIIIVSGHELVAE	63
EEL64394.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
AEW56259.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFRIQTLSD-----TIIIVSGHELVAE	63
AFQ11690.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFRMQTLSD-----TIIIVSGHELVAE	63
EAL16831.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
ACK94296.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFRIQTLSD-----AIIIVSGHELVAE	63
EDZ58760.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EJV84218.1	Y-GLLGNLPLID---KDKPTLSFIKIAEEY-GPIFRIQTLSD-----TIIIVSGHELVAE	63
EJQ69212.1	Y-GLLGNLPLID---KDKPTLSFIKIAEEY-GPIFRIQTLSD-----TIIIVSGHELVAE	63
EJQ80339.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFRIQTLSD-----AIIIVSGHELVAE	63
EJV81602.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EJQ95474.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EEK44229.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLS-----TIIIVSGHELVAE	71
EEK88560.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EJR07451.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFRIQTLSD-----AIIIVSGHELVAE	63
EJR16542.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
BAL18840.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EDX69960.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFRMQTLSD-----TIIIVSGHELVAE	63
ACM13462.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLS-----TIIIVSGHELVVE	63
EEK75631.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFRIQTLSD-----TIIIVSGHELVAE	63
EEL25491.1	-----	MVAE 4
EEL21990.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	71
EEL33825.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	71

EEL44933.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFRMQLSD----TIIIVSGHELVAE	71
EEL50167.1	F-GPLGNVPLLD---KDKPLLSFIKLAEY-GPIFRLQTPGS----TAIIVSGHELVAE	141
EJR22930.1	Y-GPLGNLPLIN---KDKPTLSFIKLAEY-GPIFRIQTLSD----AIIIVSGHELVAE	63
EJP91231.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFRIQTLSD----AIIIVSGHELVAE	63
EJR37623.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLSD----TIIIVSGHELVAE	63
EJR50635.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLSD----TIIIVSGHELVAE	63
EJR64551.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLSD----TIIIVSGHELVAE	63
EJR75620.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLSD----TIIIVSGHELVAE	63
EJR82049.1	Y-GPLGNLPLIN---KDKPTLSFIKLAEY-GPIFRIQTLSD----AIIIVSGHELVAE	63
EJR83659.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLSD----TIIIVSGHELVAE	63
EJR91135.1	F-GPLGNLPLIN---KNSTPLSMAKIFDEY-GPIFRFEAFGN----SRIMICDPELVAD	62
EJR97241.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLSD----TIIIVSGHELVAE	63
EJS05852.1	Y-GLLGNLPLID---KDKPTLSFIKLAEY-GPIFRIQTLSD----TIIIVSGHELVAE	63
EDX58768.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFRMQLSD----TIIIVSGHELVAE	63
AAU24352.1	Y-GPLGNLPLLD---KNRVSQSLWKIADEM-GPIFQFKFADA----IGVFVSSHSELVKE	62
ABY44122.1	Y-GLLGNLPLID---KDKPTLSFIKLAEY-GPIFRIQTLSD----TIIIVSGHELVAE	63
EDW23201.1	Y-GPFKNIPHAK---KGELSQTFWRLADEL-GPIFQFEFSKA----TSIFVSNHELPQE	62
ABV62358.1	Y-GPFKNIPHAK---KGELSQTFWRLADEL-GPIFQFEFSKA----TSIFVSSHSELAKE	62
EIF12263.1	F-GPLGNLPLID---KDKPTMSLILKLANEQ-GPIFQLHTPAG----AIIIVSGHELVKE	62
EIF14027.1	Y-GPLKNLPHLE---KEKLSQSLWKIADEM-GPIFRFEFPSS----VGVFVSGRELAAE	62
EHL75405.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLSD----TIIIVSGHELVAE	63
EJD67577.1	F-GPLGNLPLLD---KDKPTMSLILKLANEQ-GPIFQLHTPAG----AIIIVSGHELVKE	62
EJD68347.1	Y-GPLKNLPHLE---KEKLSQSLWKIADEM-GPIFRFEFPSS----VGVFVSGRELAAE	62
EFV73436.1	Y-GPLGNLPLLD---KNRVSQSLWKIADEM-GPIFQFKFADA----IGVFVSSHSELVKE	76
CBY93692.1	Y-GPLGNLPLID---KDKPTLSFIKLAEY-GPIFQIQTLSD----TIIIVSGHELVAE	63
AFI27355.1	F-GPLGNLPLID---KDKPTLSLILKLAEEQ-GPIFQIHTPAG----TTIIVSGHELVKE	62
AFI29229.1	Y-GPLKNLPHLE---KEQLSQSLWRLADEL-GPIFRDFPGV----SSVFVSGHNLVTE	62
EIL85422.1	Y-GPLKNIPHAK---KGELSQSFWRRLADEL-GGIYQFEFSDI----TGVFVSSHSELVQE	62
ADV93500.1	Y-GPLKNLPHLE---KEQLSQSLWRIADEL-GPIFRDFPGV----SSVFVSGHNLVAE	62
ADV95715.1	F-GPLGNLPLID---KDKPTLSLILKLAEEQ-GPIFQIHTPAG----TTIIVSGHELVKE	62
BAI84248.1	F-GPLGNLPLID---KDKPTLSLILKLAEEQ-GPIFQIHTPAG----TTIIVSGHELVKE	62
EFG90288.1	Y-GPLKNLPHLE---KEQLSQSLWRIADEL-GPIFRDFPGV----SSVFVSGHNLVAE	62
EFG91781.1	Y-GPLGNLPLID---KDKPTLSLILKLAEEQ-GPIFQIHTPAG----TTIIVSGHELVKE	62
AEP85668.1	Y-GPLGNLPLID---KDKPTLSLILKLAEEQ-GPIFQIHTPAG----TTIIVSGHELVKE	62
AEP87558.1	Y-GPLKNLPHLE---KEQLSQSLWRIADEL-GPIFRDFPGV----SSVFVSGHNLVAE	62
sp O08336.1 CYPB_BACSU	Y-GPLKNLPHLE---KEQLSQSLWRIADEL-GPIFRDFPGV----SSVFVSGHNLVAE	62
sp O08394.1 CYPD_BACSU	F-GPLGNLPLID---KDKPTLSLILKLAEEQ-GPIFQIHTPAG----TTIIVSGHELVKE	62
AEP89812.1	F-GPLGNLPLID---KDKPTLSLILKLAEEQ-GPIFQIHTPAG----TTIIVSGHELVKE	62

AEP91702.1	Y-GPLKNLPHLE---KEQLSQLWRIADEL-GPIFRDFPGV----SSVFVSGHNLVAE	62
EHA31094.1	Y-GPLKNLPHLE---KEQLSQLWRIADEL-GPIFRDFPGV----SSVFVSGHNLVAE	64
ADH07708.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EEM28177.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
AFQ14162.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----AIIIVSGHELVAE	63
EEM95517.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----TIIIVSGHELVAE	63
EEN02344.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----AIIIVSGHELVAE	63
AFU13781.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	71
EEM70897.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	71
ADY22413.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EEM82895.1	Y-GPLGNLPLIN---KDKPTLSFIKLAEEY-GPIFRIQTLS-----AIIIVSGHELVAE	63
EEM52818.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
EEM59126.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----TIIIVSGHELVAE	71
EEM47193.1	-----MVAE	4
EEM76899.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRMQTLS-----TIIIVSGHELVAE	71
EEM88909.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	71
EEM38196.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----AIIIVSGHELVAE	63
EEM21858.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFQIQTLS-----TIIIVSGHELVVE	66
ABK86139.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----TIIIVSGHELVAE	71
EJQ37805.1	Y-GPLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	63
CCF04242.1	F-GPLGNLPLLD---KDKPTMSLIKLANEQ-GPIFQLHTPAG----AIIIVSGHELVKE	62
CCF05972.1	Y-GPLKNLPHLE---KEKLSQLSLWKIAEEY-GPIFRFEFPSS----VGVFVSGRELAAE	62
ABS73124.1	F-GPLGNLPLLD---KDKPTMSLIKLANEQ-GPIFQLHTPAG----AIIIVSGHELVKE	62
ABS74786.1	Y-GPLKNLPHLE---KEKLSQLSLWKIAEEY-GPIFRFEFPSS----VGVFVSGRELAAE	62
EKE46398.1	F-GPLGNLPLLD---KDKPTMSLIKLANEQ-GPIFQLHTPAG----AIIIVSGHELVKE	62
EKE48022.1	Y-GPLKNLPHLE---KEKLSQLSLWKIAEEY-GPIFRFEFPSS----VGVFVSGRELAAE	62
CCG48683.1	F-GPLGNLPLLD---KDKPTMSLIKLANEQ-GPIFQLHTPAG----AIIIVSGHELVKE	62
AFJ60789.1	F-GPLGNLPLLD---KDKPTMSLIKLANEQ-GPIFQLHTPAG----AIIIVSGHELVKE	69
AFJ62808.1	Y-GPLKNLPHLE---KEKLSQLSLWKIAEEY-GPIFRFEFPSS----VGVFVSGRELAAE	62
EEK66903.1	Y-GLLGNLPLID---KDKPTLSFIKIAEEY-GPIFQIQTLS-----TIIIVSGHELVAE	77
EJQ52935.1	Y-GLLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----TIIIVSGHELVAE	63
EJS69574.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----AIIIVSGHELVAE	63
EJV63294.1	Y-GPLGNLPLID---KDKPTLSFIKLAEEY-GPIFRIQTLS-----AIIIVSGHELVAE	63
EKF35778.1	Y-GPLKNIPLLK---KGELSQTFWRLADDL-GPIFQFEFTGQ----TSIFVSSHENVSE	62
EGP08506.1	K-PVVGNNMLS---STAPVQDLVRKSREL-GPIFWLDMM-GQ----PLVIVSGFDLVDE	65
BAL78328.1	K-PVVGNNMLS---SAAPVQHLTRLAKEL-GPIFWLDMM-GS----PIVVVSGHDLVDE	65
BAC48147.1	K-PVVGNNMLS---SAAPVQHLTRLAKEL-GPIFWLDMM-GS----PIVVVSGHDLVDE	65
BAL12135.1	K-PVVGNNMLS---SAAPVQHLTRLAKEL-GPIFWLDMM-GS----PIVVVSGHDLVDE	65

CCE00185.1	R-PVVGNNMLSLD---ANAPVQHLTRLAKEY-GPIFWLDMM-GS----PIVIASGYDLVDE	65
EIG57609.1	K-PVVGNNMLSLD---SAAPVQHLTRLAKEL-GPIFWLDMM-GS----PIVVVSGHDLVDE	65
EHR02046.1	K-PVVGNNMLSLD---SAAPVQHLTRLAKEL-GPIFWLDMM-GS----PIVVVSGHDLVDE	65
EJN11211.1	K-PVVGNNMLSLD---SAAPVQHLTRLAKEL-GPIFWLDMM-GS----PIVVVSGHDLVDE	65
CCF15606.1	-----MVAE	4
CCF12687.1	Y-GPLGNYPLID---KDTPTLSLCKLAEEF-GPIYRLTLSGS----SSLVISGHKLAAE	62
ABB05850.1	K-PVIGHLMEVL---GPSPLAKMMDLARTY-GPVYWFEVF-GQ----GYYVVSQQLTVDE	62
EHP43606.1	W-PLVGNLLQVT---PGKIGQHLLARSRAF-DGIFELDFA-GR---RVAFVSDAALVGE	86
ABF10339.1	W-PIFGNLQIT---PGEVGQHLLARSRHH-DGIFELDFA-GK----RVPFVSSVALASE	68
CAJ95800.1	W-PLVGNLLQIT---PGALGQHLLARSRHH-DGIFELNFA-GR---RVPFVTSVALASE	88
AEI79937.1	W-PLVGNLLQIT---PGALGQHLLARSRHH-DGIFELNFA-GR---RVPFVTSVALASE	88
AFD27790.1	L-PVLGHLLAID---AQSPVQLTRLLRDH-GPIAELRLP-GRRKGGRLLIVGSYALADE	64
ABC62112.1	K-PIVGNNAFTVD---SSRLIQSLMELAEEY-GPIFQLEVM-GT----PLVFVSGADMVAE	65
EAQ27850.1	K-PLIGNALTVD---ASQQIQSLMELAEEY-GPIFQLDMM-GT----PIVIISGADLVAE	65
EIT84377.1	Y-GPLGNLPLID---KEHPTLSLWKMAEEQ-GPIFRMKSPAS----QSIIVSGHELARE	62
CCG43686.1	Y-GPLGNLPLIN---KEKPIQSFMKLADEF-GPLYQFQFPGR----TSRFVSSAQFAAE	62
ABX05160.1	R-PIVGNVPDIG---METPVQNLNMKLAQHY-GPIFRVSFP-NR----SVLVVSSAELVAE	65
BAJ96920.1	R-PLVGNAAID---PSARMENWLRLSKIY-GPIFHLSLP-QR----NLIILSSQELVNE	60
GAB96874.1	R-PVIGTLYAMD---SHAPIQSSMALASEY-GEIFRHRIM-GRP---PLYMVSSQRLVDE	101
EFH80345.1	K-PLVGNLYSLD---HALPTLSMMDLAREL-GPIYQLEIP-GR---RTVIVSGFELADE	66
EFH88481.1	---PMGDMKEVH---PESAVRDLIKQAQRH-GPIFQLPLPDGT----RRIVLSSFALVDE	58
EAW32450.1	KLPGIGHTHLID---AAEPVQSLLALKNM-GEIYQLQLP-GG----KLLVVSSQRLVDE	60
EIZ82104.1	L-PIVGNLPEID---PNAPVQSLMRLARAH-GPIYRLSLG-GR----SLTVVSAQALVNE	62
AEV70722.1	ALPTWADVGRP---YALP---IDILGERH-GPLFYSDHN-GF----RKLYACSAELVDE	68
EFC41452.1	H-FLVGNIFTVD---KKNPFPFSIELAKKF-DGIFKMNL-GK----QLVVVYSQELVNE	91
ACV78954.1	L-PIIGNALVSI---NPATAFTDLQRLADEL-GPIYALDMP-GYH---DQVVLTGPDLFGE	63
ACV78964.1	L-PLLGNLFID---THSPVDFIAMAKEY-GPIYRLTLP-AG----SRVMVSGADLVDQ	65
ACV81379.1	V-PILGNLLDLN---NPHPIDTLMDWARQY-GPIYKLTVP-GT----TRIVVSGADLMPD	65
EIZ78677.1	L-PIIGNLNLD---ADAPVQSLIRLADIH-GPIFRISGV-GQ----SIIILSSQALVDD	60
EJW15291.1	Y-GPLGNVPQLN---PNTPILSFMNLAEQY-GEIYRMKLPFG----TLHVVSGYELAKE	60
EJW16173.1	F-GLLGNLPQLN---LEAPVQSMVQLAEEY-GPIFRIDLPGR----SEIFISGHELVKD	64
EHQ58913.1	Y-GPLGNLPQLD---TEMPIQSFMKLAEEY-GEFFRFLKLPFG----HLHIVSGYELVKE	60
EHQ59900.1	F-GPLGNLPLLD---LEAPQSLVKLAYEY-GPIFRMDMPGR----SEIFISGYELVED	62
EHB66924.1	Y-GPLGNLPLLD---SSAPVQSLVKIASEL-GPIFQFQYPGGR----RELYVSGHEYVRD	62
AFH60445.1	F-GPLGNLPNLN---TKEPVQSVIKIADEF-GPIFQLDLPRG----KSVYISSHELVAD	62
AEI42011.1	F-GPLGNLPNLN---TKEPVQSVIKIADEF-GPIFQLDLPRG----KSVYISSHELVAD	62
ADO57681.1	Y-GPLGNLPLID---THAPVQSLVKLANEH-GPIFRMDLPEG----TNIYISGHKLVAD	62
EGG32133.1	Y-GPLGNLPLLD---SAAPVQSLVKVASSEL-GPIFQFQYPGGR----KELYVSGHEYVKD	63

EGL17662.1	Y-GPLGNLPLID---KESPLQSMMKLADEL-GPIFKLEMPGR----TQLLISSH ELVAD	63
ACX65034.1	Y-GPLGNLPLL-----SAAPVQSLVVKVASEL-GPIFQFQYPGGR----KELYVSGHEY VKD	63
ACT11327.1	K-PVIGNLADVD---PRNSIDSLSMKLAKTY-GPFFKMRIF-SD----EFYVASSQELV NE	62
AEA28016.1	K-PVIGNALDIP---GDRTIQALMDLTRTY-GPIMRLKTP-VG----DRYIVSGLEM VDD	67
EFP68091.1	L-PWLGNNLLQLP---KDRLAQTLLETSRQFPQGLYQLDFA-GR----RVPFVYSADLV AE	75
EGY61507.1	L-PWLGNNLLQLP---KDRLAQTLLETSRQFPQGLYQLDFA-GR----RVPFVYSADLV AE	75
EIE85788.1	L-PFVGNLYDMV---PNLIEGWIRQFEKY-GPVVEISLL-GK----ILVGTNSPAVAEV	142
EIE92534.1	L-PFVGSLYEML---PNIAEGWMRQFDRF-GPLVEISLL-GK----IIVGTNDP NIAEI	142
BAE46296.1	RLPLLGDLLTVD---SEKPIQKEMALASKL-GPIFEWKIV-NN----RVTVVSGV DLVAE	116
BAH31604.1	RLPVLDGVLGIN---IRTPLQNSVSIGREL-GPIFERNL-GN----RFVFASGADM VAE	71
EEN84644.1	RLPVLDGVLGIN---IRTPLQNSVSIGREL-GPIFERNL-GN----RFVFASGADM VAE	71
EEN88978.1	RLPVLDLILSVD---SVKPVQKEMVMASRL-GPIFERKIL-NH----RLTVVSG VELVAE	156
ABG96413.1	RLPVVGDVFGIS---IRTPLQNSMEIGRKL-GPIFERNL-GN----RFVFASGADM VAE	103
BAH52971.1	RLPVFGDVFGIS---IRTPVQNSMEIGRQL-GPIERNIL-GN----KFVFASGADM VAE	70
EHI44575.1	RFPVVGDVFGIS---IRTPVQNSMEIGSRL-GPIERNVL-GN----RFVFASGADM VAE	105
EID73168.1	RLPVVGDVFGIS---VRTPVQNSMEIGRKL-GPIERNVL-GN----RFVFASGADM VAE	70
EHK83749.1	---MGDLLSID---VAKPVQREMQMAQEL-GGIFERKIL-QH----RLIVVSGADLV RE	47
EJI96173.1	RLPVVGDVFGIS---IRTPLQNSMEIGRKL-GPIERNVL-GN----RFVFASGADM VAE	70
ABI79384.1	RLPLLGDLVLRLD---PKRPVQREMRFVEEL-GDVEISII-GR----RVVVVGG DAAAEE	99
CAR47816.1	RLPLLGDLVLRLD---PQRPVQREAQFVQEL-GDVEISIL-GR----KVIVVGG DAAAEE	101
AEK26937.1	RLPLVGDLLSID---VAKPVQREMQMAQEL-GGIFERKIL-QH----RLIVVSGADLV RE	79
ABE39056.1	K-PVVGMLS---TTAPVQHLVRLAKEL-GPIFWLDMM-GA----PLVIVSGY DLVDE	65
ABD08340.1	Q-PVVGMLS---TKAPVQHLVRLAEEL-GPIFWLDMM-GA----PIVIVSGY DLVDE	65
CAM03474.1	DVPVADVSGTGL---TATPTQQAMELARRH-GPVFRRRTR-EF----QSLLV SDVLDVAE	60
EJF54063.1	Y-PIVKSVLSL---IKRPVQSMSMALAEKY-GGIYRLEVP-ND----SLVIVSG LEYVQE	76
AFC23737.1	Y-PIVKSVLSL---IKRPVQSMSMALAEKY-GGIYRLEVP-ND----SLVIVSG LEYVQE	64
ADG98903.1	RLPLLGDLRLD---LAKPTQSLVPLSHEA-GPVFEQVFF-GF----PLRVVAG AREIEE	71
EGI54680.1	Y-PLIGNIAELD---PKAPVQSLMRLAREH-GPLFRIEMF-GR----GLVIVGS QALTAE	59
AEW97204.1	PVPVADISDTGF---GTTPIQQAMALAREH-GPVFRRGF-TF----ESLLV GSVDATVE	77
CAJ88567.1	RLPLLGDVVGAS---RSTPMQDSLRYARRL-GPIFRRRAF-GN----EFV FVGAGLAAD	86
BAC68285.1	V-PLFGHTPQIP---STNPVEYFGKLSKQFPEGLYGMEIA-GI----EQV FVWDPDLVAE	68
BAC75137.1	RLPVVGDVLGVN---VRTPVQDSLRIGRRL-GPVFRRKAF-GK----EIV FVGGADLAEE	82
EDY51256.1	-MPLFGHALSVP--AGG-FTEHTLREARAL-GPLFNL RFF-DT----DCWMVSG PELVAE	50
EFG07822.1	RLPLFGHALSVP--AGG-FTEHTLREARAL-GPLFNL RFF-DT----DCWMVSG PELVAE	82
EHN78335.1	RLPLLGDVVGAS---RRTPMQDSLRYARRL-GPIFRRRVF-GK----EFV FVGASLAAD	86
CAB66201.1	RLPLLGDVVGAS---RRTPMQDSLRYARRL-GPIFRRRAF-GK----EFV FVWGAA LAAD	86
EGG48117.1	RLPLAGDVLGAD---VRRPLQDAMRHGRLL-GPIYRRKVF-RR----EFV FVGGRYAAD	93
EFL20831.1	ALPLVGHAFSVP--SGADGLLHVMKEAKEL-GPLFRLRIF-GN----DINF VSGLDLVTE	73

EFL28515 .1	GVPLVDISA-QT---NNTPIQQAMELTRAH-GPVLRRLH-GT----DMLFVSDPDLVAE	68
AEY93311 .1	RVPLLGDVLGVD---RHRPLQDSMRLAREL-GPIFRRAF-GK----EFVFVWGAELVAD	85
AEY93321 .1	GVPVVDITASGP---GRTPIQQTMEMLMREH-GPVLRRLH-GR----DVMFVADANLVAD	66
EFD71156 .1	RLPLLGDVVGAS---RRTPMQDSLRYARRL-GPIFRRAF-GK----EFVFVWGAALAAD	86
CBG67789 .1	ALPLVGHAFDIP--GGADGLLHLMKEAREL-GPLFKLRFV-GN---EINIASGLDLVTE	68
CBG68112 .1	RIPLLGDVLGTN---VRTPVQESTRLGQRL-GPIFRRKAF-GK----EIVFVGGAAELAAE	82
EFL10082 .1	RLPVIGDLLGAS---FRTPLQGTMRAZEKL-GPIFTRKFF-GL----EIVFVTGIDLVTE	102
EFF88741 .1	GLPLVGHALTLP--GGADFLHHLMKEVKEL-GPIYQLRTF-GK----ELVVVGGLDLVTE	68
EDY58112 .1	RLPLLGDVLGVD---RATPLQDSLRFARRL-GPIFRRAF-NR----EFVFTWGAEVAD	82
EFL36674 .1	RIPLLGDVVGVN---RRTPLQDSLRYARRL-GPVFRRKAF-GK----EFVFVWGAELVAD	95
EFL36680 .1	GVPVADITATGP---GGAPIQQAMDLMREH-GPVFVRRLY-GR----DTLFVGDLDLVAE	116
EFE65335 .1	RLPLVGDVLGAS---RSTPVQDSLKYARRL-GPIFRRNAF-GK----EFVFTWGAGLVTD	83
EGX54696 .1	RVPLLGDVVGAG---RRTPLQDSLRFARKL-GPIFRRAF-GK----EFVFVWGAAGLAAD	83
ACZ89135 .1	R-PIVGNAPEID---SGAPVQSMMRLAADL-GPVFRMSVP-GR----EMLILSSRELVAE	65
ABD83817 .1	R-PVVGNNMLS---SAAPVQDLTRLAKEL-GPIFWLDMM-GA---PIVIVSGYTLVDE	65
ADU39615 .1	K-PFVGNLLSIG---SDSPVLDMWKIAQDL-GGIYWLDMP-GM---PVIVVSSPALVDE	65
EJL72014 .1	K-PFVGNLLSIG---SDSPVLDMWKIAQDL-GGIYWLDMP-GM---PVIVVSSPELVDE	65

sp | P14779.2 | CPXB_PRIM2 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
ADF40088.1 ACDE-SRFDKNLSQ-ALK----FVR-DFTGGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
ADE70259.1 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
AEN88827.1 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
KFN05180.1 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
ACZ37122.1 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
ADA57055.1 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
ADA57058.1 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
ADA57059.1 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
ADA57061.1 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
ADA57062.1 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
ADA57068.1 ACDE-SRFDKNLSQ-ALK----FVR-DFAGDGLFTSWTHEKNWKKAHNILLPSFSQQAMK 114
AAT62301.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK 116
AAM54108.1 MCSD-PSWGKAV-HPALE----QVR-DFAGDGLFTARGDEPNWGKAHRLLMPAFGPTAMR 119
EFQ83738.1 LCDE-SRGKDL-PPALT---SLR-EFAGDGLFTAFTEERNWGLAHDLLRAFPTRPAMQ 119
EFL88452.1 LCDE-ARFDKAV-RGSLR----RIR-AVGGDALFTANTSDDNWQKAHRILLPTFAGSAMK 116
BAF89518.1 MCAA-PDVFAKL-VEGRGGGLGNLAE-KSVGSALFTASDNDPLWHQKAHRILAPAFGATALK 206
CBI43648.1 VCDE-KRFDKNLSK-ALL----KVR-EFGGDGLFTSWTHEKNWQKAHRILLPSFSQKAMK 115
AEB22839.1 VCDE-ERFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSKRAMK 115
EDT22025.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK 116
AFH84458.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK 124
ADP31197.1 ICDE-SRFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK 115
ACP19384.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
ADL27534.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
ACO29732.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK 116
EDX65100.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK 116
EEK61456.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
EEL16232.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK 124
EDZ53094.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
EEL81346.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 130
EEL87105.1 VCDE-TRFDKSIDG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK 130
EEL75761.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 57
ACK88541.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK 116
EJQ05303.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK 116
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AAP10153.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
EEK83466.1 VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 124

ACK63698.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	57
EJS57156.1	VCDE-TRFDKSIDG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJS56605.1	VCDE-TRFDKSIDG-ALA----KVR-VFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
EJS68951.1	VCDQ-SRFDKSVEG-PLA----KVR-PFAGDGLFTSGTHEPNWRKAHNILTPTFQRAMK	115
EJQ10567.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJQ13433.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJQ20399.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJQ30236.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJQ51278.1	VCDQ-SRFDKSVEG-PLA----KVR-PFAGDGLFTSGTHEPNWRKAHNILTPTFQRAMK	115
EEL10858.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EEL05393.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	130
EEK94080.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	119
EEK99882.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	119
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ADK05784.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
AAU17340.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
EEL64394.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
AEW56259.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK	116
AFQ11690.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWKKAHNILMPTFSQRAMK	116
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ACK94296.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EDZ58760.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
EJV84218.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
EJQ69212.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJQ80339.1	VCDE-TRFDKSIDG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJV81602.1	VCDE-TRFDKSIDG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJQ95474.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
EEK44229.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	124
EEK88560.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJR07451.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
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BAL18840.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
EDX69960.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK	116
ACM13462.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
EEK75631.1	VCDE-TRFDKSIDG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EEL25491.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	57
EEL21990.1	VCDE-TRFDKSIDG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	124
EEL33825.1	VCDE-TRFDKSIDG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	124

EEL44933.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK	124
EEL50167.1	VCDQ-SRFDKSVEG-PLA----KVR-PFAGDGLFTSGTHEPNWSKAHNILMPTFSQRAMK	194
EJR22930.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJP91231.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJR37623.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJR50635.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
EJR64551.1	VCDE-TRFDKSIDG-ALA----KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK	116
EJR75620.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJR82049.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJR83659.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJR91135.1	ICDE-SRFDKSIGH--LQ----NVR-TFSKDGLFTAQTEEPNWQKAHHLLPSFSQQAMK	114
EJR97241.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJS05852.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EDX58768.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK	116
AAU24352.1	VSEE-SRFDKNMKG-GLL----KVR-EFSGDGLFTSWTEEPNWRKAHNILLPSFSQKAMK	115
ABY44122.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EDW23201.1	ICDE-SRFDKYIGT-SLN----KVR-AFAGDGLFTSWTEEPNWRKAHHILMPAFSQAMK	115
ABV62358.1	VFDE-SRFDKFIGS-SLN----KVR-TFSGDGLFTSWTEEPNWRKAHHILMPAFSQAMK	115
EIF12263.1	VCDE-ERFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK	115
EIF14027.1	VCDE-KRFDKNLSK-ALL----KVR-EFGGDGLFTSWTHEKNWQKAHRILLPSFSQKAMK	115
EHL75405.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
EJD67577.1	VCDE-ERFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK	115
EJD68347.1	VCDE-KRFDKNLSK-ALL----KVR-EFGGDGLFTSWTHEKNWQKAHRILLPSFSQKAMK	115
EFV73436.1	VSEE-SRFDKNMKG-GLL----KVR-EFSGDGLFTSWTEEPNWRKAHNILLPSFSQKAMK	129
CBY93692.1	VCDE-TRFDKSIEG-ALA----KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK	116
AFI27355.1	VCDE-GRFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK	115
AFI29229.1	VCDE-SRFDKNLGK-GLL----KVR-EFGGDGLFTSWTHEPNWQKAHRILLPSFSQKAMK	115
EIL85422.1	VCDE-SRFDKFIGI-SLD----KAR-AFAGDGLFTSWTEEPNWRKAHQILMPAFSQAMK	115
ADV93500.1	VCDE-SRFDKNLGK-GLQ----KVR-EFGGDGLFTSWTHEPNWQKAHRILLPSFSQKAMK	115
ADV95715.1	VCDE-ERFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK	115
BAI84248.1	VCDE-ERFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQAMK	115
EFG90288.1	VCDE-SRFDKNLGK-GLL----KVR-EFGGDGLFTSWTNEPNWQKAHRILLPSFSQKAMK	115
EFG91781.1	VCDE-ERFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK	115
AEP85668.1	VCDE-ERFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK	115
AEP87558.1	VCDE-SRFDKNLGK-GLL----KVR-EFGGDGLFTSWTHEPNWQKAHRILLPSFSQKAMK	115
sp O08336.1 CYPB_BACSU	VCDE-KRFDKNLGK-GLQ----KVR-EFGGDGLFTSWTHEPNWQKAHRILLPSFSQKAMK	115
sp O08394.1 CYPD_BACSU	VCDE-ERFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK	115
AEP89812.1	VCDE-ERFDKSIEG-ALE----KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK	115

AEP91702.1 VCDE-SRFDKNLGK-GLQ----KVR-EFGGDGLFTSWTHEPNWQKAHRILLPSFSQKAMK 115
EHA31094.1 VCDE-SRFDKNLGK-GLQ----KVR-EFGGDGLFTSWTHEPNWQKAHRILLPSFSQKAMK 117
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EEM28177.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
AFQ14162.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
EEM95517.1 ICDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
EEN02344.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
AFU13781.1 VCDE-TRFDKSIDG-ALA---KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK 124
EEM70897.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK 124
ADY22413.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
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EEM52818.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
EEM59126.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK 124
EEM47193.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 57
EEM76899.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK 124
EEM88909.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK 124
EEM38196.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
EEM21858.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 119
ABK86139.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETQEPNWQKAHNILMPTFSQRAMK 124
EJQ37805.1 VCDE-TRFDKSIDG-ALA---KVR-AFAGDGLFTSETDEPNWKKAHNILMPTFSQRAMK 116
CCF04242.1 VCDE-ERFDKSIEG-ALE---KVR-AFAGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK 115
CCF05972.1 VCDE-KRFDKNLSK-ALL---KVR-EFGGDGLFTSWTHEKNWQKAHRILLPSFSQKAMK 115
ABS73124.1 VCDE-ERFDKSIEG-ALE---KVR-AFSGDGLFTSWTHEPNWRKAHHILMPTFSQRAMK 115
ABS74786.1 VCDE-KRFDKNLSK-ALL---KVR-EFGGDGLFTSWTHEKNWQKAHRILLPSFSQKAMK 115
EKE46398.1 VCDE-ERFDKSIEG-ALE---KVR-AFAGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK 115
EKE48022.1 VCDE-KRFDKNLSK-ALL---KVR-EFGGDGLFTSWTHEKNWQKAHRILLPSFSQKAMK 115
CCG48683.1 VCDE-ERFDKSIEG-ALE---KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK 115
AFJ60789.1 VCDE-ERFDKSIEG-ALE---KVR-AFSGDGLFTSWTHEPNWRKAHNILMPTFSQRAMK 122
AFJ62808.1 VCDE-KRFDKNLSK-ALL---KVR-EFGGDGLFTSWTHEKNWQKAHRILLPSFSQKAMK 115
EEK66903.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 130
EJQ52935.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETHEPNWKKAHNILMPTFSQRAMK 116
EJS69574.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETQEPNWKKAHNILMPTFSQRAMK 116
EJV63294.1 VCDE-TRFDKSIEG-ALA---KVR-AFAGDGLFTSETQEPNWKKAHNILMPTFSQRAMK 116
EKF35778.1 VCDE-SRFDKYIGI-SLD---KAR-AFAGDGLFTSWTEEPNWRKAHQILMPAFSQQAMK 115
EGP08506.1 LSDE-KRFDKAV-RGALR---RVR-AIGGDGLFTADTTEPNWSKAHNILLQPFGRAMQ 118
BAL78328.1 LSDE-KRFDKTV-RGALR---RVR-AVGGDGLFTADTREPNWSKAHNILLQPFGNRAMQ 118
BAC48147.1 LSDE-KRFDKTV-RGALR---RVR-AVGGDGLFTADTREPNWSKAHNILLQPFGNRAMQ 118
BAL12135.1 LSDE-KRFDKTV-RGALR---RVR-AVGGDGLFTADTREPNWSKAHNILLQPFGNRAMQ 118

CCE00185.1	LSDE-KRFDKVV-RGALR----RVR-AIGGDGLFTADTREPNTKAHNILLQPFGNRAMQ	118
EIG57609.1	LSDE-KRFDKTV-RGALR----RVR-AVGGDGLFTADTKEPNWSKAHNILLQPFGNRAMQ	118
EHR02046.1	LSDE-KRFDKTV-RGALR----RVR-AVGGDGLFTADTREPNTKAHNILLQPFGNRAMQ	118
EJN11211.1	LSDE-KRFDKTV-RGALR----RVR-AVGGDGLFTADTREPNTKAHNILLQPFGNRAMQ	118
CCF15606.1	ACDE-SRFDKNVWP-PLQ----KVR-TFAGDGLFTSSTDEPNWQKAHNILLPSFSQRAMQ	57
CCF12687.1	VCDE-SRFFKNITG-DLE----NVR-AFSGDGLFTSRIEPPNWQKAHNILLPSFSQQAMK	115
ABB05850.1	VCDE-TRFQKCV-HQSLL---ELR-PAIGDGLFTAFGDEPNWAKAHRLVMQAFGPLSIW	115
EHP43606.1	LSDG-QFRKIV-GPPLS----YLR-DLAGDGLFTAHAEEENWGRAHRLMPAFSQRAMK	139
ABF10339.1	LCDA-TRFRKII-GPPLS----YLR-DMAGDGLFTAHSDEPNWGCAHRLMPAFSQRAMK	121
CAJ95800.1	LCDA-AQFRKYI-GPPVS---YLR-GMAGDGLFTARSDEANWGKAHRLMPAFSQRAMK	141
AEI79937.1	LCDA-ARFRKYI-GPPLS---YLR-GMAGDGLFTARSDEANWGKAHRLMPAFSQRAMK	141
AFD27790.1	LSDQ-ERFDKQV-HDDLE---EIR-AFAGDGLFTAETAEPNWRAHNILMPAFGPLAIR	117
ABC62112.1	ICDE-SRFDKTV-RGPLK---RLR-LIAGDGLFTGDTDDPNWAKAHILLPSFSQKAMG	118
EAQ27850.1	VCDE-KRFDKSV-RGPLK---RLR-LIGGDGLFTGDTDAPNWSKAHNILLPSFSQKAMG	118
EIT84377.1	VCDE-TRFAKSIEG-ALE---KVR-AFAGDGLFTSWGDEPNWQKAHNILMPTFSQRAMK	115
CCG43686.1	ICDE-SRFDKKVG-P-ALQ---KVR-AFGGDGLFTSETEEINWKKAHNILLPSFSQQAMK	115
ABX05160.1	ISDQ-QRFDKLL-HGPLI----QIR-DFAGDGLFTAYTEEANWSKAHRLMPAFGPASMR	118
BAJ96920.1	ACDE-KRFNKRV-GGALN---EVR-SFTGDGLFTAQNSEKNYGKGHRILASAFLSPVAMH	113
GAB96874.1	LCDE-SRFDKRV-HQPLE---NIR-AFAGDGLFTVHTPEENWGKAHRLMPAFSPFALK	154
EFH80345.1	LSDE-TRFDKRV-WRPLQ---NVR-AFAGDGLFTAYTQEANWHKAHNILLPNFSMRAMQ	119
EFH88481.1	VCND-QFFDKRV-SVNVR---NLR-SAIGSGLFSADTSDPNWRKAHTILMPSFSQAMR	111
EAW32450.1	LCDE-SRFDKKV-SGPLS---NIR-DIALDGLFTAKTTEPNWQKAHNILMPAFSMGAMS	113
EIZ82104.1	LCDE-GRFEKKL-HRPLE---MLR-DLGGDGLFTARNDEPNWGKAHRLMPAFGPLGIR	115
AEV70722.1	LCDE-SRFAKNL-TPTLA---RVR-PLAGDGLFTAYYGEPNWQKAHDVLLPGFSYAGLR	121
EFC41452.1	LCDE-SRFEKAL-PPGLK---HVK-EFGGDGLFTAENNEPNWAIAHRLMPAFGPKSIQ	144
ACV78954.1	ACDD-SRFDKS---PAQ---RLR-AVLGDGLFTAFTDSRAWQRGHRIIAPAFTGAAIS	113
ACV78964.1	MCDD-QKFDKKI-GAGLK---ALQKSVAGSGLFTSDTADPMWRAHNILMAPFSQQAMR	119
ACV81379.1	ICDD-ERFDKQL-GPGLV---AAR-GTGTGPLFLSETSDPLWRRRAHNILMAPFSQSSMR	118
EIZ78677.1	ACDE-ARFSKKV-HRPLE---MLR-DLGGDGLFTAYGDEPNWAKAHRLMPAFGPIGVR	113
EJW15291.1	FSDT-ARFGKIVDKTILN---NVR-AYAGDGLFTSETNDPNWKKAHNILLPSFSRTAMR	114
EJW16173.1	ACDE-SRFDKNVWA-PLR---SVR-AFTGDGLFTSETAEPNWQKAHHILLPSFSQSMR	117
EHQ58913.1	LTDP-SRFDKIVDKTVLE---KVR-AILGDGLFTSETEEPNWRKAHNILLPSFSRTAMR	114
EHQ59900.1	ACDE-SRFDKNLWA-PLQ---KVR-AFAGDGLFTSATEEPNWSKAHNILLPSFSQRAMQ	115
EHB66924.1	ACDE-KRFDKRIWA-PLQ---NVR-AFAGDGLFTSATHEPNWKKAHNILLSSFSQRAMQ	115
AFH60445.1	ACDE-SRFDKYVWA-PLQ---KVR-AFAGDGLFTAETDEPNWQKAHAILLPSFSQRAMQ	115
AEI42011.1	ACDE-SRFDKYVWA-PLQ---KVR-AFAGDGLFTAETDEPNWQKAHAILLPSFSQRAMQ	115
ADO57681.1	ACDE-SRFDKQVWA-PLQ---KVR-AFAGDGLFTSWTEEPNWRKAHQILLPSFSQRAMQ	115
EGG32133.1	ACDE-KRFDKRIWA-PLQ---NVR-PFAGDGLFTSATQEPNWKKAHNILLSSFSQRAMQ	116

EGL17662.1	ACDE-SRFDKKIGA-ALS----NVR-AFGGDGLFTAHTDEPNWQKAHHILLPTFSQRAMK	116
ACX65034.1	ACDE-KRFDKRIWA-PLQ----NVR-PFAGDGLFTSATQEPNWKKAHNILLSSFSQRAMQ	116
ACT11327.1	LSDE-SFFEKKL-SAELL----ELR-YLGGDGLFTAHTHEPNWGKAHRILMPALGPLGVR	115
AEA28016.1	LCDD-SRFDKLV-GTAQK----ELRKTRPSDGLFTADTDDPMWSRAHNILLPNFSMQAMQ	121
EFP68091.1	LCDE-TRFRKLI-GPPLS----FLR-AGAGDGLFTAHQDEPNWGKAHRILLPAFSQRAMK	128
EGY61507.1	LCDE-TRFRKLI-GPPLS----FLR-AGAGDGLFTAHQDEPNWGKAHRILLPAFSQRAMK	128
EIE85788.1	FARESEYFTKKITKSLG---EVK-EFAGQGLFTTDDEMDWQLAHKLLMPAFSPRAIK	197
EIE92534.1	FAKESEYFTKKITKSLG---EVK-EFAGQGLFTTDDEMDWQLAHKLLMPAFSPRAIK	197
BAE46296.1	VNNE-ALWAKSV-GLPIL----KLR-KVAEDGLTAFNSEPNWRKAHNILSEGFSRSALR	169
BAH31604.1	LSDE-SRFAKHL-APGVK----ALR-GIGGDGLFTAYNHEPNWGKAHNLLAPAFSQTAMR	124
EEN84644.1	LSDE-SRFAKHL-APGVK----ALR-GIGGDGLFTAYNHEPNWGKAHNLLAPAFSQTAMR	124
EEN88978.1	VNNE-ALWAKSV-GLPIR----KLR-AVAEDGLTAFNSEPNWQKAHNILNAGFSQAALR	209
ABG96413.1	LSDE-SRFAKHL-APGVA----SLR-EVGGDGLFTAYNHEPNWSKAHNLLAPAFTKSAMR	156
BAH52971.1	LSDE-TRFAKHL-APGVA----SLR-EVGGDGLFTAYNHEPNWSKAHNLLAPAFTKSAMR	123
EHI44575.1	LSDE-SRFAKHL-APGVA----SLR-EVGGDGLFTAYNHEPNWSKAHNLLAPAFTKSAMR	158
EID73168.1	LSDE-SRFAKHL-APGVA----SLR-EVGGDGLFTAYNHEPNWSKAHNLLAPAFTKSAMR	123
EHK83749.1	VNDE-EKWAKFL-GKPLR----KLR-VIAGDGLTAFNSEPNWSKAHNILGPGFSQAAMR	100
EJI96173.1	LSDE-SRFAKHL-APGVA----SLR-EVGGDGLFTAYNHEPNWSKAHNLLAPAFTKSAMR	123
ABI79384.1	VFDE-TRFAKAV-VPPVS----TLR-ELAGDGLTAFNSEPAWAQAHNVLMPAFSQASMR	152
CAR47816.1	VFDE-TRFAKAV-VPPVS----NLR-ELAGDGLTAFNSEPAWAQAHNVLMPAFSQASMR	154
AEK26937.1	VNDE-EKWAKFL-GKPLR----KLR-VIAGDGLTAFNSEPNWSKAHNILGPGFSQAAMR	132
ABE39056.1	ISDE-KRFDKAV-RGALR----RAR-AVGGDGLFTADTKEPNWSKAHNILLPFGRAMQ	118
ABD08340.1	ISDE-KRFDKAV-RGALR----RVR-TVGGDGLFTADTSEPNWSKAHNILLPFGRAMQ	118
CAM03474.1	LSDE-QRFAKAV-GPALE----NVR-EFAADGLFTAYNDEFNWAKAHIDLMPAFALGSMR	113
EJF54063.1	FCNE-DRFDKKV-FSALE----KVR-DLTGDGLFTAHTEEPNWGKAHRILTPAFGPHAMR	129
AFC23737.1	FCDE-DRFDKKV-FSALE----KVR-DLTGDGLFTAHTEEPNWGKAHRILTPAFGPHAMQ	117
ADG98903.1	VNNE-EAWEKHV-GPALH----KLR-PMAGDGLFTAYNREPWNWQKAHNVLMPAFSRAMV	124
EGI54680.1	LCDE-ARFKKAL-HRPLQ----EAR-YVGGDGLFTAHDDEPNWGKAHRILLMPAFGPLGLR	112
AEW97204.1	LCDD-ERFKKAV-GPVLT----NVR-QIAGDGLFTAYNDEPNWAKAHIDLMPAFALSSMH	130
CAJ88567.1	LADE-ERFAKHV-GLGVA----NLR-PVAGDGLFTAYNHEPNWQLAHDV LAPGFSREAMA	139
BAC68285.1	VCDE-TRFFKQIDKTPLA----HVR-DYAGAGLFTAHQHEEEWGMahrVLLPVFSQRAMK	122
BAC75137.1	LADE-SRFAKHV-GLGVA----NLR-PVAGDGLFTAYNHEPNWQLGHDV LAPGFSREAMA	135
EDY51256.1	LCDE-TRFRKSV-QP-IA----AVR-EFAGDGLFTA FGDEPNWRKAHNILMPAFSYNALR	102
EFG07822.1	LCDE-TRFRKSV-QP-IA----AVR-EFAGDGLFTA FGDEPNWRKAHNILMPAFSYNALR	134
EHN78335.1	LADE-TRFAKHV-GLGVA----NLR-PVAGDGLFTAYNHEPNWQLAHDV LAPGFSREAMA	139
CAB66201.1	LADE-ARFAKHV-GLGVA----NLR-PVAGDGLFTAYNHEPNWQLAHDV LAPGFSREAMA	139
EGG48117.1	LADE-SRFAKHV-GLGVA----NLR-PVAGDGLFTAYNHEPNWQLAHDV LAPGFSREAMS	146
EFL20831.1	LADE-TRFRKNV-HPDLV----VLR-AIGGDGLTAFNDEPNWRKAHDILMPAFSLGAMR	126

EFL28515.1	LCDD-QRFAKYV-NQSLE----NVR-EFTHDGLFTAYNDEPNWAKAHDILMPAFALGSMR	121
AEY93311.1	LADE-SRFAKHV-GLGVA----NLR-PVAGDGLFTAYNHEPNWQLAHDV LAPGFSREAME	138
AEY93321.1	LADE-ERFAKHV-GPALR----NVR-EFAADGLFTAYNDEPNWAKAHDILMPAFALGSMR	119
EFD71156.1	LADE-ARFAKHV-GLGVA----NLR-PVAGDGLFTAYNHEPNWQLAHDV LAPGFSREAMA	139
CBG67789.1	LSDE-SRFRKNV-HADLV----LVR-EITGDGLFTA FNDEPNWRKAHDVLMPAFSLGAMR	121
CBG68112.1	MADE-ARFAKHV-GVGVA----NLR-PVAGDGLFTAYNHEPNWQLAHDV LAPGFGREAMA	135
EFL10082.1	LNDE-TKFGKHV-GLGVE----RLR-AVAGDGLFTAHTREP NWRLAHDLQPAFSAESMR	155
EFF88741.1	LSDE-TRFRKAI-GKDLS----AVR-PIGGDGLFTAYGDEPNWRKAHDVLMPFSLGAMR	121
EDY58112.1	LADE-SRFAKHV-GLGVA----NLR-PVAGDGLFTAYNHEPNWQLAHDV LAPGFSREAMA	135
EFL36674.1	LADE-SRFAKHV-GLGIA----NLR-PVAGDGLFTAYNHEPNWQLAHDV LAPGFSREAMA	148
EFL36680.1	LADE-QRFAKHI-GPGL E----NVR-EFAADGLFTAYNDEPNWAKAHDILMPAFALGSMR	169
EFE65335.1	LADE-TRFAKHV-GLGVA----NLR-PLAGDGLFTAYNHEPNWQLAHDV LAPGFRREAMA	136
EGX54696.1	IADE-SRFAKHV-GLGVA----NLR-PVAGDGLFTAYNHEPNWQLAHDV LAPGFSREAMA	136
ACZ89135.1	ACDE-SRFEKHV-HGPLE----HIR-DFAGDGLFTAYGDEPNWARAH RILMPAFGPAAMR	118
ABD83817.1	LSVE-TRLDKVV-RGALR----RVR-AIGGDGLFTADTAEPNWSKPHNILLQPGN RAMQ	118
ADU39615.1	LCEE-ARFDKST-RGALR----RLR-AA-SHGLFTSDTHEETWSKPHNILLANFSQRAMQ	117
EJL72014.1	LCEE-ARFDKST-RGALR----RLR-AA-SHGLFTSDTHEETWSKPHNILLANFSQRAMQ	117

sp P14779.2 CPXB_PRIM2	GYHAMMVDIAVQLVQKWERLN-ADEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
ADF40088.1	GYHAMMVDIAVQLVQKWERLN-ADEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
ADE70259.1	GYHAMMVDIAVQLIQQWERLN-TDEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
AEN88827.1	GYHAMMVDIAVQLIQQWERLN-ADEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
KFN05180.1	GYHAMMVDIAVQLVQKWERLN-ADEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
ACZ37122.1	GYHAMMVDIAVQLIQQWERLN-TDEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
ADA57055.1	GYHAMMVDIAVQLIQQWERLN-TDEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
ADA57058.1	GYHAMMVDIAVQLIQQWERLN-TDEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
ADA57059.1	GYHAMMVDIAVQLVQKWERLN-ADEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
ADA57061.1	GYHAMMVDIAVQLIQQWERLN-TDEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
ADA57062.1	GYHAMMVDIAVQLIQQWERLN-TDEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
ADA57068.1	GYHAMMVDIAVQLIQQWERLN-TDEHIEVPEDMTRLTLDTIGLCGFNYRFSFYR--DQP	171
AAT62301.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
AAM54108.1	DHFPAMLDIAEQMLVRWRRFG-PDHRIDVADDMTRLTLDTIALCAF GARFNSFYR--DRA	176
EFQ83738.1	SYHPIMVETLDEFAYWDHQ---EGPVDVSRDMTKLTMETLSRAAFSKDFGSFTS--TEV	174
EFL88452.1	GYMPMMQDVATQLCTKWERMN-ADEEIDVVHDMTAVALDTIGICGFDYRFSFYR--RDY	173
BAF89518.1	NYYGRIVEVADDLLHDRLA-PGESFLATDLMTRMTFEAISYAAFNRRYGAIDS--PAL	263
CBI43648.1	GYHSMMLDIAMQLVQKWSRLN-PNEEIDVAEDMTRLTLDTIGLCFHYRFSFYR--DTQ	172
AEB22839.1	DYHSMMTDIAVQLIQQWERLN-PDEAVDVPADMTRLTLDTIGLCGFNYRFSYYR--ETP	172
EDT22025.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
AFH84458.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	181
ADP31197.1	EYHSMMVDIAVQLIQQWERLN-PNEAVDVPGMTRLTLDTIGLCGFNYRFSYYR--ETP	172
ACP19384.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
ADL27534.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
ACO29732.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
EDX65100.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
EEK61456.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
EEL16232.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	181
EDZ53094.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
EEL81346.1	DYHAMMVDIAVQLVQKWARLN-PNESDVPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	187
EEL87105.1	DYHGMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETS	187
EEL75761.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	114
ACK88541.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
EJQ05303.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPGMTRLTLDTIGLCGFNYRFSFYR--ETS	173
EEK50040.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
AAS42149.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
AAP10153.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFSFYR--ETP	173
EEK83466.1	DYHAMMVDIAVQLVQKWARLN-PNENVDPGMTRLTLDTIGLCGFNYRFSFYR--ETS	181

ACK63698.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 114
EJS57156.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJS56605.1 DYHGMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
EJS68951.1 DYHAMMVDIAVQLVQKWARLN-PNEEVDPEDMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
EJQ10567.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJQ13433.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSYYR--ETP 173
EJQ20399.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJQ30236.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJQ51278.1 DYHAMMVDIAVQLVQKWARLN-PNEEVDPEDMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
EEL10858.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EEL05393.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSYYR--ETP 187
EEK94080.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 176
EEK99882.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 176
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ADK05784.1 DYHAMMVDIAVQLVQKWARLN-PKENVDVPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
AAU17340.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EEL64394.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
AEW56259.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
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EJQ80339.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJV81602.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJQ95474.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
EEK44229.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 181
EEK88560.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJR07451.1 DYHAMMVDIAVQLVQKWARLN-PNEDVDVPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJR16542.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
BAL18840.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
EDX69960.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
ACM13462.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
EEK75631.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EEL25491.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 114
EEL21990.1 DYHGMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETS 181
EEL33825.1 DYHGMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETS 181

EEL44933.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 181
EEL50167.1 DYHTMMVDIAVQLVQKWARLN-PNEEVDPEDMTRLTLDTIGLCGFNYRFNSYYR--ETP 251
EJR22930.1 DYHAMMVDLAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJP91231.1 DYHAMMVDLAVQLVQKWARLN-PNEDDVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJR37623.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJR50635.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
EJR64551.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
EJR75620.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJR82049.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJR83659.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJR91135.1 GYHSMMVDIAMQLVQKWARLN-PDENIDVCDDMTRLTLDTIGLCGFNYRFNSYYR--ETP 171
EJR97241.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJS05852.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSYYR--ETP 173
EDX58768.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
AAU24352.1 GYHPMMQDIAVQLIWKWSRLN-QDESIDVPDDMTRLTLDTIGLCGFNYRFNSFYR--EGQ 172
ABY44122.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSYYR--ETP 173
EDW23201.1 GYHEMMLDIATQLVQKWQRTG-RDEEIEVAEDMTKLTLDТИGLCGFDFRFSFYK--ENQ 172
ABV62358.1 GYHEMMLDIATQLVQKWQRTG-RDEEIEVAEDMTKLTLDТИGLCGFDFRFSFYK--ENQ 172
EIF12263.1 DYHSMMTDIAVQLIWKWARLN-PDEAVDVPADMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
EIF14027.1 GYHSMMLDIAMQLVQKWSRLN-PNEEIDVAEDMTRLTLDTIGLCGFHYRFNSFYR--DTQ 172
EHL75405.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EJD67577.1 DYHSMMTDIAVQLIWKWARLN-PDEAVDVPADMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
EJD68347.1 GYHSMMLDIAMQLVQKWSRLN-PNEEIDVAEDMTRLTLDTIGLCGFHYRFNSFYR--DTQ 172
EFV73436.1 GYHPMMQDIAVQLIWKWSRLN-QDESIDVPDDMTRLTLDTIGLCGFNYRFNSFYR--EGQ 186
CBY93692.1 DYHAMMVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
AFI27355.1 DYHEKMVDIAVQLIWKWARLN-PNEAVDVPGDMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
AFI29229.1 GYHSMMLDIATQLIWKWSRLN-PNEEIDVADDMTRLTLDTIGLCGFNYRFNSFYR--DSQ 172
EIL85422.1 GYHEMMLDIATQLVQKWQRTG-RDEEIEVAEDMTKLTLDТИGLCGFDFRFSFYK--ENQ 172
ADV93500.1 GYHSMMLDIATQLIWKWSRLN-PNEEIDVADDMTRLTLDTIGLCGFNYRFNSFYR--DSQ 172
ADV95715.1 DYHEKMVDIAVQLIWKWARLN-PNEAVDVPGDMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
BAI84248.1 DYHEKMVDIAVQLIWKWARLN-PNEVVDVPGDMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
EFG90288.1 GYHSMMLDIATQLIWKWSRLN-PNEEIDVADDMTRLTLDTIGLCGFNYRFNSFYR--DSQ 172
EFG91781.1 DYHEKMVDIAVQLIWKWARLN-PNEAVDVPGDMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
AEP85668.1 DYHEKMVDIAVQLIWKWARLN-PNEAVDVPGDMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
AEP87558.1 GYHSMMLDIATQLIWKWSRLN-PNEEIDVADDMTRLTLDTIGLCGFNYRFNSFYR--DSQ 172
sp|O08336.1|CYPB_BACSU GYHSMMLDIATQLIWKWSRLN-PNEEIDVADDMTRLTLDTIGLCGFNYRFNSFYR--DSQ 172
sp|O08394.1|CYPD_BACSU DYHEKMVDIAVQLIWKWARLN-PNEAVDVPGDMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
AEP89812.1 DYHEKMVDIAVQLIWKWARLN-PNEAVDVPGDMTRLTLDTIGLCGFNYRFNSYYR--ETP 172

AEP91702.1 GYHSMMLDIATQLIQKWSRLN-PNEEIDVADDMTRLTLDTIGLCGFNYRFNSFYR--DSQ 172
EHA31094.1 GYHSMMLDIATQLIQKWSRLN-PNEEIDVADDMTRLTLDTIGLCGFNYRFNSFYR--DSQ 174
ADH07708.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EEM28177.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
AFQ14162.1 DYHAMMVDLAVQLVQKWARLN-PNEDDVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EEM95517.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDTGDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EEN02344.1 DYHAMMVDLAVQLVQKWARLN-PNEDDVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
AFU13781.1 DYHGMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETS 181
EEM70897.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 181
ADY22413.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
EEM82895.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EEM52818.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EEM59126.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 181
EEM47193.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 114
EEM76899.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 181
EEM88909.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 181
EEM38196.1 DYHAMMVELAVQLVQKWARLN-PNEDDVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 173
EEM21858.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPGDMTRLTLDTIGLCGFNYRFNSFYR--ETS 176
ABK86139.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 181
EJQ37805.1 DYHGMMVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETS 173
CCF04242.1 DYHSMMTDIAVQLIQKWARLN-PDEAVDVPADMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
CCF05972.1 GYHSMMLDIAMQLVQKWSRLN-PNEEIDVAEDMTRLTLDTIGLCFHYRFNSFYR--DTQ 172
ABS73124.1 DYHSMMTDIAVQLIQKWARLN-PDEAVDVPADMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
ABS74786.1 GYHSMMLDIAMQLVQKWSRLN-PNEEIDVAEDMTRLTLDTIGLCFHYRFNSFYR--DTQ 172
EKE46398.1 DYHSMMTDIAVQLIQKWARLN-PDEAVDVPADMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
EKE48022.1 GYHSMMLDIAMQLVQKWSRLN-PNEEIDVAEDMTRLTLDTIGLCFHYRFNSFYR--DTQ 172
CCG48683.1 DYHSMMTDIAVQLIQKWARLN-PDEAVDVPADMTRLTLDTIGLCGFNYRFNSYYR--ETP 172
AFJ60789.1 DYHSMMTDIAVQLIQKWARLN-PDEAVDVPADMTRLTLDTIGLCGFNYRFNSYYR--ETP 179
AFJ62808.1 GYHSMMLDIAMQLVQKWSRLN-PNEEIDVAEDMTRLTLDTIGLCFHYRFNSFYR--DTQ 172
EEK66903.1 DYHAMMVDLAVQLVQKWARLN-PNESDVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ETP 187
EJQ52935.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSYYR--ETP 173
EJS69574.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ESS 173
EJV63294.1 DYHAMMVVDIAVQLVQKWARLN-PNENVDPEDMTRLTLDTIGLCGFNYRFNSFYR--ESS 173
EKF35778.1 GYHEMMLDIASQLVQKQRTG-RDEEIEVAEDMTKLTLDTIGLCGFDFRFNSFYK--ENQ 172
EGP08506.1 SYHPMMVDIAEQLVKKWERLN-ADDEIDVVHDMTALTLDТИGLCGFDYRFNSFYR--EDY 175
BAL78328.1 SYHPSMVDIAEQLVNKWERLN-ADDEIDVVHDMTALTLDТИGLCGFDYRFNSFYR--RDY 175
BAC48147.1 SYHPSMVDIAEQLVQKWERLN-ADDEIDVVHDMTALTLDТИGLCGFDYRFNSFYR--RDY 175
BAL12135.1 SYHPSMVDIAEQLVNKWERLN-ADDEIDVVHDMTALTLDТИGLCGFEYRFNSFYR--RDY 175

CCE00185.1 SYHASMVDIAEQLVKKWERLN-ADEEIDVVHDMTALTLDТИLCGFDYRFNSFYR--RDY 175
EIG57609.1 SYHPSMVDIAEQLVGKWERLN-ADDEIDVVHDMTALTLDТИLCGFDYRFNSFYR--RDY 175
EHR02046.1 SYHPSMVDIAEQLVGKWERLN-ADDEIDVVHDMTALTLDТИLCGFDYRFNSFYR--RDY 175
EJN11211.1 SYHPSMVDIAEQLVQKWERLN-ADDEIDVVHDMTALTLDТИLCGFEYRFNSFYR--RDY 175
CCF15606.1 GYHSMMVDIAVQLIQQKWARLN-PDESIDVPEDMTRLTLDTIGLCGFNYRFNSFYR--EQP 114
CCF12687.1 GYHSMMVDIALQLIQQKWARLN-PNESIDVPGDMTRLTLDTIGLCGFNYRFNSFYR--ETH 172
ABB05850.1 SMFDKMDVIAQMFLHWERFG-PETPVDVSDHMTRLTLDTIALCAFDCRFNSFYR--EDQ 172
EHP43606.1 GYFDVMLRVANRLVDKWDRQG-ADTDIPIADDMTRLTLDTIALSGFGYDFDSFAR--EQL 196
ABF10339.1 AYFDVMLRVANRLVDKWDRQG-PDADIAVADDMTRLTLDTIALAGFGYDFASFAS--DEL 178
CAJ95800.1 GYFDVMLRVANRLVDKWDQGG-PDADIAVADDMTRLTLDTIALSGFGYDFESFAS--TEL 198
AEI79937.1 GYFDVMLRVANRLVDKWDRQG-PDADIAVADDMTRLTLDTIALSGFGYDFESFAS--ANL 198
AFD27790.1 GMFGQMQDVCEQMLLRWERFG-PAAEFDVADQMTRLTLDTIALCAF DYRFNSFYL--ERM 174
ABC62112.1 SYLPMMTDIASQLMLKWERLN-SDDVIDVPMDMVRLLDTIGVCGFGYRFNSFYR--EDF 175
EAQ27850.1 SYLPMMTDIATQLVMKWERMN-SDDVIDVPKDMIRLTLDTIGVCGFGYRFNSFYR--EDF 175
EIT84377.1 GYHPMMVDIAQQQLLQKWARLN-PNEHIDVPEDMTRLTLDTIGLCGFNYRFNSFYR--ERS 172
CCG43686.1 GYHNKMDLASQLIQQKWARLN-PNEEEVPEDMTRLTLDTIGLCGFNYRFNSFYR--ERS 172
ABX05160.1 NYFDDMLDIADQLFTKWERQG-PETDFDVADNMTRLTLDTIALCGFGYRFNSFYQ--REM 175
BAJ96920.1 GMFEGMMDIAEQLVLRWKRGF-EDSIINVSENYTRVTLDTIGLCAFNYRFNSFYQ--NEL 170
GAB96874.1 GMYDGMADIAEQLMLKWERLG-PQADIDVVHDFTRLTLDTIALCSFSYRFNSFYS--ESM 211
EFH80345.1 GYIPMMQDIAEQLLKGWERMN-ANEEIDVVSDMTRLTLDTIGLCGFYRFNSFYR--EDL 176
EFH88481.1 NYEPMMVDAAEQLMAKWEHLN-PEDLINVPDDMTRVTLETIGLCGFSYHFHAITR--EQM 168
EAW32450.1 NYFPMMLEIAEQMMTRWGQLN-AHDEIDVPADMVRLLDTIGLCGFYRFNSFSR--DEP 170
EIZ82104.1 AMFDRMEDIADQMLLRWERFG-PEATIDVADSMTRLTLDTIALCAF DYRFNSFYQ--NEM 172
AEV70722.1 NYHGAMLDISSQLIARWDARVG-HALVDASTDLQKLAMDTVALAGFGARFHSDH--DGL 178
EFC41452.1 DMYPQMYDIAEQLCTKWERLG-EHSVIDIVDNMTRLTLDTIALCAF NYRFNSFYH--NEM 201
ACV78954.1 RLYPSIVDPIQQLAERLVRME-PGSDDVDVPTLTSAMTLVVGLCLFSYRFGNVYT--NTP 170
ACV78964.1 EYMPRMLDIAGQLMGKWSRLN-PDEEVNPVDMTSLTLDTIALCGFDYRFNSYYR--DTQ 176
ACV81379.1 GYLPRMVDIAGQLMDKWSRLN-PDDEVNPVADMTALTLDТИALCGFGYRFNSLYR--DTP 175
EIZ78677.1 AMFDRMEEIADQMLLRWERFG-PDAVIDVADNMTRLTLDTIALCAF DYRFNSFYQ--NEM 170
EJW15291.1 GYFDKMLDLAMQLIQQKWSRLN-PDDQIEVPEDMTRLAMDTIGLCGFNYRFNSFYR--DQP 171
EJW16173.1 GYHEMMVDIAVQLIQQKWSRLN-PDESIDVPEDMTRLTLDTIGLCGFNYRFNSFYR--DQP 174
EHQ58913.1 GYFDKMLEIAIQLVQKWSRLN-PDESVDVPEDMTRLALDTIGLCGFNYRFNSFYR--EQS 171
EHQ59900.1 GYHTMMVDIAQQLVQKWARLN-PDESVDVPEDMTRLTLDTIGLCGFNYRFNSFYR--EQP 172
EHB66924.1 GYHTKMLDIAMQLIQQKWARLN-PDETVDVPADMTRLTLDTIGLCGFNYRFNSFYR--EDN 172
AFH60445.1 GYHAMMVDLAVQLVQKWARLN-PDESVEVGEDMTRLTLDTIGLCGFNYRFNSFYR--DQP 172
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EGG32133.1 GYHTKMDIAMIQLIQQKWARLN-PDETVDVPADMTRLTLDTIGLCGFNYRFNSFYR--EDN 173

EGL17662.1 GYHNMMVDIAVQLIQKWSRLN-ADEIIDVPEDMTRLTLDTIGLCGFNYRFNSFYR--EQP 173
ACX65034.1 GYHTKMVDIAMQLIQKWARLN-PDETVDVPADMTRLTLDTIGLCGFNYRFNSFYR--EDN 173
ACT11327.1 SMFDKMLDISEQMFRLWERFG-PDVDIDVADNMTRLTLDTIALCGFDYRFNSFYR--DDL 172
AEA28016.1 GYLPMMDIALQLMQKWERLN-PGEQVDTADMTRLTLDTIALCGFGYRFNSFYR--NTQ 178
EFP68091.1 GYFDVMLEVANALAEKWARQG-PDADIPVADDMTRLTLDTISLAGFGYRFDSFNT--PEL 185
EGY61507.1 GYFDVMLEVANALAEKWARQG-PDADIPVADDMTRLTLDTISLAGFGYRFDSFNT--PEL 185
EIE85788.1 AYQVEMAIIAQQTVKVFEQFK-PHEPVIEWTNLTFETIGRIGFGYFNLLVGRGQE 256
EIE92534.1 AYQGEMGIIAQQTMKIFEQYR-PDEPVEILDWTTNLTFETIGRIGFGYEFNLLVDRDQE 256
BAE46296.1 NYHPSMLRALGGLTSDWDRVADAGETIDASSDANKLALDVIGLAGFGYDFASFIG---EE 226
BAH31604.1 SYHRTMLDVAGELVDHWDRS-DSDSPIDVSADMTKLTLETIGRTGFSYSFDSFER--EEQ 181
EEN84644.1 SYHRTMLDVARELVDHWDRS-ESDSPIDVSADMTKLTLETIGRTGFSYSFDSFER--EEQ 181
EEN88978.1 KYHPSMLRALDGLMASWDAAAAGGKIDATADANKLALDVIGLAGFGYDFASF 266
ABG96413.1 SYHRTMLDVAGELTEHWDER-VDGSPDVSSDMTKLTLETIGRTGFSYSFDSFGR--ERP 213
BAH52971.1 SYHRTMLDVAGELTQHWDQR-VDGTPDVSSDMTKLTLETIGRTGFSYSFDSFTR--ERP 180
EHI44575.1 SYHRTMLDVAGELTERWDER-VDGTPDVSSDMTKLTLETIGRTGFSYSFDSFTR--ERP 215
EID73168.1 SYHRTMLDVAGELAEHWDER-VDGSPDVSSDMTKLTLETIGRTGFSYSFDSFRR--ERP 180
EHK83749.1 GYHDSMLTVVDRLVDSWDSAADGEYDVPKSMTSLFDVIGRCGFSYDFDSFGR--TEP 158
EJI96173.1 SYHRTMLDVAGELTEHWDER-VDGSPDVSSDMTKLTLETIGRTGFSYSFDSFGR--ERP 180
ABI79384.1 SYHDAMVDCVDQLCTYWESA-ARGPVDVSSDMNRLTLEVIGRTGFGYSFDSFAP---GR 208
CAR47816.1 SYHDAMVECIDQLCAYWADTA-SGEPVDISSDMNRLTLEVIGRTGFGYSFNSFAP---GR 210
AEK26937.1 GYHDSMLTVVDRLVDSWDSAADGEYDVPKSMTSLFDVIGRCGFSYDFDSFGR--TEP 190
ABE39056.1 SYHPSMVDIAEQLVKKWERLN-ADDEIDVVHDMTALTLDТИGLCGFDYRFNSFYR--RDY 175
ABD08340.1 SYHPSMVDIAEQLVKKWERLN-ADDEIDVVHDMTALTLDТИGLCGFDYRFNSFYR--RDY 175
CAM03474.1 TYHPVMLRVARRLLSDWDRAAAASAPDVDPDDMTRMTLDТИGLAGFGFDFGSFGR--AEP 171
EJF54063.1 DMFDKMYDVAEQLCIKLERLG-PEEPFNVPANMTRLTLDTIALCAF DYRFNSFYK--NDM 186
AFC23737.1 DMFDKMYDVAEQLCVKLERLG-PDEPFNVPANMTRLTLDTIALCAF DYRFNSFYK--NEM 174
ADG98903.1 NYHASIRGAVEELVEVWAEDARSGAWDVVDSMNKLTLLEVISRAGFGHSFNLLSS--REE 182
EGI54680.1 SMFDRMYDIAEQMMVRWERFG-ESATIDVADNMTRLTLDTIALCAF DYRFNSFYQ--DQM 169
AEW97204.1 TYHPTMLRVAKRLIAAWDTALADGAPDVADDMTRMTLDТИGLAGFGYDFGSFRR--GEP 188
CAJ88567.1 GYHVMMLDVAARLTDHWDRAAGRTDVPGDMTKLTLETIARTGFGHDFGSFER--SRP 197
BAC68285.1 GYFGQMLEIAQNLVKGWERKE-G-QPVNITDDYTRLTLDTIALSGFGYRFDSFAK--EDL 178
BAC75137.1 GYHPMMLAVTERLIDHWDRREQTAGRAVDVPGDMTKLTLETIARTGFGHDFGSFER--ARP 193
EDY51256.1 AYHPTMVTVARVLDAWDRNAG--TPDVDPEDMTRLTLDTIGLCFGHDFECFER--TTP 158
EFG07822.1 AYHPTMVTVARVLDAWDRNAG--TPDVDPEDMTRLTLDTIGLCFGHDFECFER--TTP 190
EHN78335.1 GYHVMMLDVAARLTGHWDLAEASGRAVDVPGDMTKLTLETIARTGFGHDFGSFER--ARP 197
CAB66201.1 GYHVMMLDVAARLTGHWDLAEASGRAVDVPGDMTKLTLETIARTGFGHDFGSFER--SRL 197
EGG48117.1 GYHPMMLDVAERLLDRWDAEERAGR PVDVPADMTRTLTLDTIARTGFGHDFGSFER--PRP 204
EFL20831.1 GYHATMLKVARELIGKWDRAAG-TEPV DVAADMTRLTFDTIGLCFGYDFESFGR--DET 183

EFL28515.1	TYHPVMLQVARRVIDAWDARAASGEPVAVTDDMTRMTLDTIGLAGFGYDFGSFDR--DEP	179
AEY93311.1	GYHGMMLSVADRLTDHWDRHLAAGRRTVDVPGDMTRLTLETIARTGFGHDFGSFER--DRP	196
AEY93321.1	TYHPVMLKVARRLIDAWDRAARAGRVPDVPGDMTRMTLDTIGLAGFDYDFGSFER--AEP	177
EFD71156.1	GYHVMMLDVAARLTGHWDLAEASGRAVDVPGDMTKLTLETIARTGFGHDFGSFER--SRL	197
CBG67789.1	GYHATMLKVARELIKWDGAAG-TEPVDAEDMTRLTFTDTIGLCGFHDFESFGR--PEP	178
CBG68112.1	GYHPMMLDVAERLIEHWDRREETAGSAVDVPGDMTKLTLETIARTGFGHDFGSFER--TRP	193
EFL10082.1	RYHATMLEVAGELTAAWDRA---TGPVDAADMTRLTLETIARTGFGYRFGSFER--AEP	210
EFF88741.1	SYHAPMLRVARSЛИGKDQADG--GPVDAADMTRLTFTDTIGMCGFDFESFSR--DRA	177
EDY58112.1	AYHPMMLAVAGRLTDHWDRREQTAGRSVDVPGDMTKLTLETIARTGFGHDFGSFER--DRP	193
EFL36674.1	GYHPMMLDVARRLTEHWDRAGAGRTVDVPGDMTKLTLETIARTGFGHDFGSFER--TRP	206
EFL36680.1	TYHPVMLRVAQRLLIASWDRDARAGQPVDVPGDMTRMTLDTIGLAGFGYDFGSFER--AEP	227
EFE65335.1	GYHPMMLDVAERLTDHWDRAAAAGRRTVDVPGDMTRLTLETIARTGFGHDFGSFER--SRP	194
EGX54696.1	GYHPMMLAVAERLTDHWDLAAARGQSVDVPGDMTKLTLETIARTGFGHDFGSFER--SRP	194
ACZ89135.1	NYFDDMIDIADQMLTKWERLG-ADQDIDVADNMTRLTLDTIALSGFGYRFNSFYQ--REM	175
ABD83817.1	SYHPSMVVDIAEQLVKKWERLN-ADDEIDVVHDMTALTLDTIGLCGFYRFNSFYR--RDY	175
ADU39615.1	AYHPMMLDIAGQLVTKWERLN-FDEEVVVVRDMTALTLDTIGLCGFYRFNSFYR--EGF	174
EJL72014.1	AYHPMMLDIAGQLVTKWERLN-FDEEVVVVRDMTALTLDTIGLCGFYRFNSFYR--EGF	174

sp P14779.2 CPXB_PRIM2	HPFITSMVRALDEAMNKLQRAN--PDDPAYDENKRQFQEDIKVMNDLVDKIADRKA SGE 229
ADF40088.1	HPFITSMVRALDEAMNKLQRAN--PDDPAYDENKRQFQEDIKVMNDLVDKIADRKA SGE 229
ADE70259.1	HPFITSMVRALDEAMNKLQRAN--PDDPAYDENKRQFQEDIKVMNDLVDKIITDRKA SGE 229
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KFN05180.1	HPFITSMVRALDEAMNKLQRAN--PDDPAYDENKRQFQEDIKVMNDLVDKIADRKA SGE 229
ACZ37122.1	HPFITSMVRALDEAMNKLQRAN--PDDPAYDENKRQFQEDIKVMNDLVDKIADRKA SGE 229
ADA57055.1	HPFITSMVRALDEAMNKLQRAN--PDDPAYDENKRQFQEDIKVMNDLVDKIADRKA SGE 229
ADA57058.1	HPFITSMVRALDEAMNKLQRAN--PDDPAYDENKRQFQEDIKVMNDLVDKIADRKA SGE 229
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ADA57061.1	HPFITSMVRALDEAMNKLQRAN--PDDPAYDENKRQFQEDIKVMNDLVDKIADRKA SGE 229
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EIE92534.1 NAFIEAMGYCLKAVQRIQQAA--FVKQLPIEANRRFDRSVRLMHEVVENVIRERKASPD 314
BAE46296.1 HPFVGAMSRVLAHVNSTSNDIP-FLRKLRGNGADLQNEKDIALRTVVNVIAERQSKPG 285
BAH31604.1 HPFVKAMVGALSHSQRTTFLKSTALGRVLARRADQRDEVRKAYMAEVVDEVIRARRTSTE 241
EEN84644.1 HPFVKAMVGALSHSQRTTFLKSTALGRVLARRADQRDEVRKAYMAEVVDEVIRARRTSTE 241
EEN88978.1 HPFVGAMSRVLEHVNRSTSNDIP-FLRKLRGNGAEIQLQEYKDIAFVRTVVDDVITERQAKQG 325
ABG96413.1 HPFVQAMVGALSHSQRTTFVKSSALGRILLMRRSDRRNIANLEHMAEVVDEVIRARRDSAE 273
BAH52971.1 HPFVQAMVGALSHSQRTTFVKSTALGRILLARRSDRRNVANLEHMAEVVDEVIRARRDSAE 240
EHI44575.1 HPFVQAMVGALSHSQRTTFVKSTALGRILLARRSDRRNVANLEHMAEVVDEVIRARRDSAE 275
EID73168.1 HPFVQAMVGALSHSQRTTFVKSSALGRILLMRRSDRRNVANLEHMAEVVDEVIRARRDSAE 240
EHK83749.1 DPFIAAMSRALEYINRSSNDIP-ILRALFGRAAREQHERDIALMQQTVDRIEER-MRSG 216
EJI96173.1 HPFVQAMVGALSHSQRTTFVKSSALGRILLMRRSDRRNIANLEHMAEVVDEVIRARRDSAE 240
ABI79384.1 HPFVEAMSRAMSYVSQTANDVP-VLREILGWKAMRQNPKDIALMKATVDEVIARRSGAT 267
CAR47816.1 HPFVESMSRAMAYVSQTANDVP-VLREILGWKAMRQNPKDIALMKTVDQVIAARRSGET 269
AEK26937.1 DPFIAAMSRALEYINRSSNDIP-ILRALFGRSAREQHERDIALMQETVDRIEER-MRSG 248
ABE39056.1 HPFVESLVRSLTIM-MTRGLP--LENLWMKKRRETLADDVVFNMAMVDEIIAERRKASE 232
ABD08340.1 HPFVESLVRSLTIM-MTRGLP--LENLWMKKRRETLADDVVFNMAMVDEIIAERRKAA- 231
CAM03474.1 HPFVGAMVRCLDWSMTRLSRV---PGTDHSERDEAFRADARYLASVVDEVINTRAEGD 227
EJF54063.1 HPFVEAMILFILHEANQHMRRLP--IMNRLMYKTKERYNLDIQYMYTVAQKILDQRRKADK 244
AFC23737.1 HPFVEAMILFILHEANQHMRRLP--IMNRLMYKTKERYNLDIQYMYTVAQKILDQRRKADK 232
ADG98903.1 SPLIAAIVRELTYAQRRTDVLP-WFERMFLRKREHQHQADMILAKRTVDDIVGERRRNPH 241
EGI54680.1 HPFVAAMVGALESGRRLP--GAGKLMLLRNRRFEADIKILRDVSNRLIEERHGDP 227
AEW97204.1 HPFVAAMVRGLLHSQALLSRKA--DDGVDHSAADEAFRADNAYLAQVVDEVIEARRASGE 246
CAJ88567.1 HPFVTAMVGLTYAQLNTVPA-PLAPWLLRGASRRNTADIDHLNRTVDDLVRARRAAGG 256
BAC68285.1 HPFLNALLQALVESLRRSQELP--VMTKMRKADDKKYRENIRLMRDLVENVIKERREGKG 236
BAC75137.1 HPFVTAMVGLTYAQRNNVVP-PLAPLLLRTATRRNAADLAYLNRTVDALVRARRTT-- 250
EDY51256.1 HPFITAMVSALDAQRKDTFIP--GLDFLRRGAEARQRINIETMNRLADDIVRRRRAASD 216
EFG07822.1 HPFITAMVSALDAQRKDTFIP--GLDFLRRGAEARQRINIETMNRLADDIVRRRRAASD 248
EHN78335.1 HPFVTAMVGLGYAQRRTVPA-PLAPWLLRDASRRNAADIAYLNRTVDDLVRERRSTGG 256
CAB66201.1 HPFVTAMVGLGYAQLNTVPA-PLAPWLLRDASRRNAADIAHLNRTVDDLVRERRANG 256
EGG48117.1 HPFVTAMIGTLTHAQRRNAVPG-PLAPLLLRAAARRNEDDIALLNRTVDAVVAARREADG 263
EFL20831.1 HPFVTSLSRALGFAQSKGESIP--GTEVFKWRQAEQFRGDVTLMQDLVDDVIRQRRASGD 241

EFL28515.1	HPFVSAMVRCLEWSMRKVARR----PDVDYSEQDEAFRADTAYLTSVVDEVIQARVAAGE	235
AEY93311.1	HPFVTAMVGTLAYAQRQLNSVPG-PLAPILLRTAARRNAADIAHNLRTVDGLVAARRSG-	254
AEY93321.1	HPFVESMVRCLEWSMTRLART----PGTDHSAADAAFRKDADHLARVVDDVIAARTGTDQ	233
EFD71156.1	HPFVTAMVGTLYAQRNLNTVPA-PLAPWLLRDASRRNAADIAHNLRTVDDLVRERRANGG	256
CBG67789.1	HPFVTALSRALGFAQAKGESIP--GLDLFKWKQAEQFRDVAVMRDLVDDVIREERRASGD	236
CBG68112.1	HPFVAAMVGTLTYAQQRNVPD-PLPVPLLRRGAAQQNRADMAFLVETVDAVVRARRSPGG	252
EFL10082.1	HPFVTAMIRALRFAQLENVK--VPFVRYLAGSAAQNRADIATMTDLVDEVIETRRREG-	267
EFF88741.1	HPFVEAALRSLGHQAQDVLEAPI--GTEVFRRKQAEQFKRDNQAMRDLVDKIIQERRASGD	235
EDY58112.1	HPFVTAMVGTLTYAQRQLNSVPF-PA---LVRRAAQRNADDIAYLNRMVDDLVRARRGA--	247
EFL36674.1	HPFVTAMIGTLTYAQRQLNTVPF-PLAPILLRSATRRNAQDIAHNLRTDELVRARRTDG-	264
EFL36680.1	HPFVESMVRCLEWSMTRLARV----PGKDYSADAAFREDSAYLAQVDEVIAARTGTDQ	283
EFE65335.1	HPFVTAMVGTLTYAQRNLNNVPA-PLAPILLRRANRRNTADIDRLNRIVDEVVRARRAHG-	252
EGX54696.1	HPFVTAMVGTLSHQQRNLNTVPA-AF---LPRRAARRNQADIDHLDRTVDELIRARTAGG-	249
ACZ89135.1	HPFIDAMVRALSEAGGRSRVVP--LQNKL MFVSRRQYEADAALMH DVCDELIARRQADP	233
ABD83817.1	HPFVESLVRSLTIM-MIRGLP--LENFWMRRRSSDLATDVAFMNKMVDEIVAERRKSAE	232
ADU39615.1	HPFVDAMVRTLETVQ-NRRGLP--LEELMLKKELAQQRKDIRYMHKMVEDIIIEERRASGA	231
EJL72014.1	HPFVDAMVRTLETVQ-NRRGLP--LEELMLKKELAQQRKDIRFMHKMVEDIIIEERRASGA	231

sp|P14779.2|CPXB_PRIM2 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
ADF40088.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
ADE70259.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
AEN88827.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
KFN05180.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
ACZ37122.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
ADA57055.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
ADA57058.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
ADA57059.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
ADA57061.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
ADA57062.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
ADA57068.1 -----Q-SDDLLTHMLNGKDPETGEPLDDENIRYQIITFLIAGHETTSGLLSFAL 278
AAT62301.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
AAM54108.1 G-----E-RPDLLERMLTCADPVTGERLSARNVRYQLATFLIAGHETTSGLLSFAV 285
EFQ83738.1 -----ASDHDLGIMLQTPHPETGERLDDLNIRFQILTFLVAGHETSGALSFAL 283
EFL88452.1 -----DTSQKDLLNYMLAGVDKVGTGESLSDENIRYQINTFLIAGHETTSGLMSFTL 281
BAF89518.1 G-----APVPTDLLQVMLTTPDRVTVGQKLPDDNIRQLIVLLIAGHETTSGMLAYAL 373
CBI43648.1 -----ENLSDLLALMLEAKDPVTGERLDDENIRYQIITFLIAGHETTSGLLSFAI 280
AEB22839.1 -----RDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 280
EDT22025.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
AFH84458.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 289
ADP31197.1 -----QDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 280
ACP19384.1 -----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
ADL27534.1 -----QEENDLLSRMLNVSDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
ACO29732.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EDX65100.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EEK61456.1 -----QEENDLLSRMLNVSDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EEL16232.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 289
EDZ53094.1 -----QEENDLLSRMLNVSDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EEL81346.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 295
EEL87105.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 295
EEL75761.1 -----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 222
ACK88541.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EJQ05303.1 -----QEENDLLSRMLHVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EEK50040.1 -----QEENDLLSRMLNPDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
AAS42149.1 -----QEENDLLSRMLHVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
AAP10153.1 -----QEENDLLSRMLNVPDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EEK83466.1 -----QEENDLLSRMLNVKDSETGENLDDENIRFQIITFLIAGHETTSGLLSFAI 289

ACK63698.1	-----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	222
EJS57156.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJS56605.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJS68951.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	280
EJQ10567.1	-----QEENDLLSRMLNVSDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJQ13433.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJQ20399.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJQ30236.1	-----QEENDLLSRMLNVSDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJQ51278.1	-----QEENDLLSRMLNVQDPETGETLDDENIRFQIITFLIAGHETTSGLLSFAI	280
EEL10858.1	-----QEENDLLSRMLNVVPDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EEL05393.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	295
EEK94080.1	-----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	284
EEK99882.1	-----QEENDLLSRMLHVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	284
EEK55784.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	289
ADK05784.1	-----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
AAU17340.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFTI	281
EEL64394.1	-----QEENDLLSRMLNVSDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
AEW56259.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
AFQ11690.1	-----QEENDLLSRMLHVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EAL16831.1	-----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
ACK94296.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EDZ58760.1	-----QEENDLLSRMLHVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJV84218.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFSI	281
EJQ69212.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJQ80339.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJV81602.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJQ95474.1	-----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EEK44229.1	-----QEENDLLSRMLHVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	289
EEK88560.1	-----QEENDLLSRMLNVSDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJR07451.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJR16542.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
BAL18840.1	-----QEENDLLSRMLHVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EDX69960.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
ACM13462.1	-----QEENDLLSRMLHVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EEK75631.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EEL25491.1	-----QEENDLLSRMLNVVPDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	222
EEL21990.1	-----QEENDLLARMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	289
EEL33825.1	-----QEENDLLARMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	289

EEL44933.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	289
EEL50167.1	-----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	359
EJR22930.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJP91231.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJR37623.1	-----QEENDLLSRMLNVVPDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJR50635.1	-----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJR64551.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJR75620.1	-----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJR82049.1	-----QEENDLLSRMLNVVPDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFSI	281
EJR83659.1	-----QEENDLLSRMLNVVPDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJR91135.1	-----QGENDLLARMLSAKDPDTGEQLDDANIRYQIITFLIAGHETTSGLLSFAI	279
EJR97241.1	-----QEENDLLSRMLNVVPDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJS05852.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EDX58768.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
AAU24352.1	-----ESGN DLLS LML HAKDPETGEKLDDENIRYQIITFLIAGHETTSGLLSFAI	280
ABY44122.1	-----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EDW23201.1	-----KTGDDLLS LML HAKDPETGERLSDENIRYQIITFLIAGHETTSGLLSFAI	279
ABV62358.1	-----KTGNDLLS LML HAKDPETGERLSDENIRYQIITFLIAGHETTSGLLSFAI	279
EIF12263.1	-----RDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	279
EIF14027.1	-----ENLS DLL ALM LEAKDPVTGERLSDENIRYQIITFLIAGHETTSGLLSFAI	280
EHL75405.1	-----QEENDLLSRMLNVSDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
EJD67577.1	-----RDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	279
EJD68347.1	-----ENLS DLL ALM LEAKDPVTGERLSDENIRYQIITFLIAGHETTSGLLSFAI	280
EFV73436.1	-----ESGN DLLS LML HAKDPETGEKLDDENIRYQIITFLIAGHETTSGLLSFAI	294
CBY93692.1	-----QEENDLLSRMLHVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	281
AFI27355.1	-----QDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	280
AFI29229.1	-----ENIK DLLS LML YAKDPVTGETLDDENIRYQIITFLIAGHETTSGLLSFAI	280
EIL85422.1	-----KMGDDLLS LML HATDPETGERLSDENIRYQIITFLIAGHETTSGLLSFAI	279
ADV93500.1	-----DNIK DLLS LML YAKDPVTGETLDDENIRYQIITFLIAGHETTSGLLSFAI	280
ADV95715.1	-----QDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAT	280
BAI84248.1	-----QDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAT	280
EFG90288.1	-----ENIK DLLS LML YAKDPVTGETLDDENIRYQIITFLIAGHETTSGLLSFAI	280
EFG91781.1	-----QDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	280
AEP85668.1	-----QDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI	280
AEP87558.1	-----ENIK DLLS LML YAKDPVTGETLDDENIRYQIITFLIAGHETTSGLLSFAI	280
sp O08336.1 CYPB_BACSU	-----ENIK DLLS LML YAKDPVTGETLDDENIRYQIITFLIAGHETTSGLLSFAI	280
sp O08394.1 CYPD_BACSU	-----QDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAT	280
AEP89812.1	-----QDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAT	280

AEP91702.1 -----DNIKDLLSLMLYAKDPVTGETLDDENIRYQIITFLIAGHETTSGLLSFAI 280
EHA31094.1 -----DNIKDLLSLMLYAKDPVTGETLDDENIRYQIITFLIAGHETTSGLLSFAI 282
ADH07708.1 -----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EEM28177.1 -----QEENDLLSRMLNVPDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
AFQ14162.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EEM95517.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EEN02344.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
AFU13781.1 -----QEENDLLARMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 289
EEM70897.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 289
ADY22413.1 -----QEENDLLSRMLHVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
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EEM52818.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EEM59126.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 289
EEM47193.1 -----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 222
EEM76899.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 289
EEM88909.1 -----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 289
EEM38196.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EEM21858.1 -----QEENDLLSRMLNVKDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 284
ABK86139.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 289
EJQ37805.1 -----QEENDLLARMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
CCF04242.1 -----RDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 279
CCF05972.1 -----ENLDLLALMLEAKDPVTGERLDDENIRYQIITFLIAGHETTSGLLSFAI 280
ABS73124.1 -----RDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 279
ABS74786.1 -----ENLDLLALMLEAKDPVTGERLDDENIRYQIITFLIAGHETTSGLLSFAI 280
EKE46398.1 -----RDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 279
EKE48022.1 -----ENLDLLALMLEAKDPVTGERLDDENIRYQIITFLIAGHETTSGLLSFAI 280
CCG48683.1 -----RDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 279
AFJ60789.1 -----RDEKDLLARMLNVEDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 286
AFJ62808.1 -----ENLDLLALMLEAKDPVTGERLDDENIRYQIITFLIAGHETTSGLLSFAI 280
EEK66903.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 295
EJQ52935.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EJS69574.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EJV63294.1 -----QEENDLLSRMLNVQDPETGEKLDDENIRFQIITFLIAGHETTSGLLSFAI 281
EKF35778.1 -----QTGDDLSSLMLNAKDPETGERLSDENIRYQIITFLIAGHETTSGLLSFAI 279
EGP08506.1 A-----AAGTKDMLNAMMTGVDKLTGQQLDDVNIRYQINTFLIAGHETTSGLLSCAI 284
BAL78328.1 G-----IDDKKDMLAAMMTGVDRATGEQLDDVNIRYQINTFLIAGHETTSGLLSTI 284
BAC48147.1 G-----IDDKKDMLAAMMTGVDRSTGEQLDDVNIRYQINTFLIAGHETTSGLLSYTL 284
BAL12135.1 G-----VDDKKDMLAAMMTGVDRSTGEQLDDINIRYQINTFLIAGHETTSGLLSYTL 284

CCE00185.1 S----GAASADDKKDMLNAMMSGVDRATGEQLDDVNIRYQINTFLIAGHETTSGLLSYTI 288
EIG57609.1 A-----TDDKKDMLAAMMTGVDRSTGEQLDDVNIRYQINTFLIAGHETTSGLLSCTL 284
EHR02046.1 A-----TDDKKDMLAAMMTGVDRSTGEQLDDVNIRYQINTFLIAGHETTSGLLSCTL 284
EJN11211.1 A-----IDDKKDMLAAMMTGVDRSTGEQLDDVNIRYQINTFLIAGHETTSGLLSCTI 284
CCF15606.1 -----HDANDLLSHMLKGKDPQTGEGLDDENIRYQITFLIAGHETTSGLLSFAL 222
CCF12687.1 -----QGEIDLTRMLNGKDPQTGERLDDKNIRYQITFLIAGHETTSGLLSFAL 280
ABB05850.1 V-----NEESMDLLDRMLNGIDPVTGEKLDDENIVFQMIFLIA GHETTSGLLSFAT 282
EHP43606.1 K----DASQPPP HDLLNLMLEARDPDTDQRLLDVNIRNQVITFLIAGHETTSGLLTFA L 309
ABF10339.1 -----SGMDLLNLMLEARDPETDRLDDANIRNQVITFLIAGHETTSGLLTFA L 285
CAJ95800.1 A----ERPGGTANDLLGGLMLEARDPDTDQRLLDENIRNQVITFLIAGHETTSGLLTFA L 311
AEI79937.1 A----QRRGGTANDLLGGLMLEARDPDTDQRLLDENIRNQVITFLIAGHETTSGLLTFA L 311
AFD27790.1 A----D-EKD DLL ALMLRGRDPETGEGLSLENVRNQMVTF LIAGHETTSGLLSFAV 280
ABC62112.1 S-----GQGDLLDFMLSGRDPVTGERLSDENIRYQINTFLIAGHETTSGLLSFTL 282
EAQ27850.1 D-----GPEDLLDFMLSGRDPPLTGERLSDENIRYQINTFLIAGHETTSGLLSFTL 282
EIT84377.1 -----SDAKDLLSLMLNGKDPETGQKLDDENIRYQITFLIAGHETTSGLLAFTL 280
CCG43686.1 -----QGEDDLLAHMLKGKDPETGEALDDENIRFQITFLIAGHETTSGLLSFAI 280
ABX05160.1 N-----E-VPNDLLGGLMLNAKDSITGEGLDDANIRNQLVTFLIAGHETTSGLLSFAT 284
BAJ96920.1 G-----EKKDVLDIMLTA KDPVTGEGLS DENIRYQMVTF LIAGHETTSGLLSFTL 278
GAB96874.1 P-----D-GQT DILD TMLSAQDP TTGERL SDENVRYQMVTF LIAGHETTSGLLSFTL 320
EFH80345.1 -----NAQKKDLLSYMLSGVDKQS GEGLNDVNIRYQITFLIAGHETTSGLLSFSL 285
EFH88481.1 E-----GQKYNDLLNAMLNGIDKQTGEKLDDVNIRNQIITFLIAGHETTSGLLSFAT 278
EAW32450.1 -----TTDAKDLLSLMLTGSDPATGEKLSDENIRYQITFLIAGHETTSGLLSFAL 279
EIZ82104.1 A-----A-TRHDLLNLMLEG RD PETGERL SDENIRYQMVTF LIAGHETTSGLLSFAL 281
AEV70722.1 -----ADID DLL YVMVGR-DSDGQPVLDQQNIRNQIMTF LIAGQLTTSELMPNAL 273
EFC41452.1 D-----VNDLLNRMLLGKDPVTNQGLS DENIRYQMVTF LIAGHETTSGLLSFTL 308
ACV78954.1 G-----N-APD DLL QHMLTAADPDTGERL SDIEVRQQTLTLLIAGHETTSGLTLAFA L 279
ACV78964.1 -----QADNT DLL GRMLTGRDK-NGEGLPDENIIAQCLTFLVAGHETTSGLLSFAI 284
ACV81379.1 -----AADNT DLL GRMLTGV DKSSGEGLPDDNIIAQCM TFLVAGHETTSGLLSFAI 284
EIZ78677.1 V-----G-ARG DLL DIMLSGRDPVTGEGLSDTNIRHQLVTFLIAGHETTSGLLSFAL 279
EJW15291.1 -----EGANDLLAYMLKGKDPDTGESLDDANIRYQITFLVAGHETTSGLLSFAL 279
EJW16173.1 -----EAGQDLLSHMLSGKDPATGESLDDENIRYQITFLIAGHETTSGLLSFAI 282
EHQ58913.1 -----QEED DLL AHMLKGQDPETGEALDDTNIRHQIITFLIAGHETTSGLLSFAL 279
EHQ59900.1 -----EDGKD DLL AHMLTGKDPETGEPLDDENIRYQITFLIAGHETTSGLLSFAM 280
EHB66924.1 -----DEG-DLLAHMLEGVDPDTGERLDQENIRYQMITFLIAGHETTSGLLSFAI 279
AFH60445.1 -----KEGED DLL AHMLNGRD PHTGEALDDENIRYQITFLIAGHETTSGLLTFA L 280
AEI42011.1 -----KDGED DLL AHMLNGRD PHTGEALDDENIRYQITFLIAGHETTSGLLTFA L 280
ADO57681.1 -----QGEED DLL ARM LEGKDPETGETLDDENIRYQITFLIAGHETTSGLLSFAI 280
EGG32133.1 -----EEG-DLLAHMLEGVDPDTGESL DHENIRYQITFLIAGHETTSGLLSFAI 280

EGL17662.1 -----EGIDDLLSHMLNGKDPETGESLGDENIRYQIITFLIAGHETTSGLLSFAL 281
ACX65034.1 -----EEG-DLLAHMLEGVDPDTGESLDHENIRYQIITFLIAGHETTSGLLSFAI 280
ACT11327.1 A-----S-EKN DLLNRMLNGVDPQTGEKLSDENIAHQMLTFLVAGHETTSGMLSFTV 281
AEA28016.1 -----ADEHQ DLLSCMLTVVDKKTGLKLPDENIVGQCLTFLVAGHETTSGLLSFTI 287
EFP68091.1 -----GGAGAS DLLGMLNARDPVSDEPLDDTNIRFQVITFLIAGHETTSGLLT FAL 295
EGY61507.1 -----GGAGAS DLLGMLNARDPVSDEPLDDTNIRFQVITFLIAGHETTSGLLT FAL 295
EIE85788.1 A-----TNKEKD DLLGYMLNARDE-HNLGLSDDNIRDQVVTFLIAGHDTTANTLAWL 365
EIE92534.1 A-----KNKEKD DLLGFMLNACDE-HNLGLSDE NIRDQVVTFLIAGHDTTANTLAWL 365
BAE46296.1 -----EHQD DLLDLMLHSADAETGEKLPVNIRNQVFTFLVAGNETTAGTLAFA L 335
BAH31604.1 -----PGPEDLLELMLRAAREN DPNRIDE LNIRHQVVTFLVAGHETTSGALSFAL 291
EEN84644.1 -----PGPEDLLELMLRAAREN DPNRIDE LNIRHQVVTFLVAGHETTSGALSFAL 291
EEN88978.1 -----EHQD DLLDLMLNNIDDETGETLDPVNIRNQVLTFLVAGNETTAGTIAFA L 375
ABG96413.1 -----DG PEDLLELMLRAAREN DPHRIDE LNIRHQVVTFLVAGHETTSGALSFAL 323
BAH52971.1 -----AG PEDLLELMLRAAREN DPNRIDE LNIRHQVVTFLVAGHETTSGALSFAL 290
EHI44575.1 -----TG PEDLLELMLRAAREDDPHRIDE LNIRHQVVTFLVAGHETTSGALSFAL 325
EID73168.1 -----AG PEDLLELMLRAAREDDPHRIDE LNIRHQVVTFLVAGHETTSGALSFAL 290
EHK83749.1 -----EQHG DLLDLM MHTVDPDTGEQLDRESIRNQVLTFLVAGNETTAATLGFA V 266
EJI96173.1 -----DG PEDLLELMLRAAREN DPHRIDE LNIRHQVVTFLVAGHETTSGALSFAL 290
ABI79384.1 -----PRQ DLLLQRMLDNPD PETGEMMSDQSIRNQVLTFLIAGHETTAGLLSFAL 317
CAR47816.1 -----PRQ DLLLQRMLENPD PQTGEMMSNQSIRNQVLTFLIAGHETTAGLLSFAL 319
AEK26937.1 -----EQHG DLLDLM MHTVDPDTGEQLSPESIRNQVLTFLVAGNETTAATLGFA V 298
ABE39056.1 S-----AADKKDMLGAMLAGVDRATGEPLDDVNIRYQINTFLIAGHETTSGLLSCAI 284
ABD08340.1 A-----VADKMDMLGAMMTGVDKVTGEPLDDVNIRYQINTFLIAGHETTSGLLSCAI 283
CAM03474.1 -----TSGED DLLGMLGARHPADGTTLDAANIRNQIITFLIAGHETTSGTL SFAL 277
EJF54063.1 A-----E-QV DLLLGRMLLEGVDPDTGEKLSDQNIIYQMVTFLIAGHETTSSMMAFTF 295
AFC23737.1 A-----E-QV DLLLGRMLLEGVDPDTGEKLSDQNIIYQMVTFLIAGHETTSSMMAFTF 283
ADG98903.1 -----ESPTD I LDMLTAVDPETGEQLDDANIRNQILTFLIAGSET SANAVSFAL 291
EGI54680.1 L-----G-ERGD DLLDRMLTARDPETGEMLSRDNIGYQM ITFLVAGHETTSGLLSFAT 278
AEW97204.1 -----TGT DLLLGLMLGAPHPSDGTPLDAANIRNQVITFLIAGHETTSGALSFAL 296
CAJ88567.1 R-----GGTGD DLLDRMLTAHPETGERLSPENVRRQVITFLVAGHETTSGALSFAL 307
BAC68285.1 -----TGED DLLLGLMLEATDPETGKG LDDNNVRDQVVTFLIAGHETTSGLLSFAT 286
BAC75137.1 -----SGEG DLLDRMLDTARP GTGERLAPENIRRQVITFLVAGHETTSGALSFAL 300
EDY51256.1 -----GGADSADDLLGLMLHAEDKDTGQPLDDMNIRYQMLTFLIAGHETTSGALSFAL 269
EFG07822.1 -----GGADSADDLLGLMLHAEDKDTGQPLDDMNIRYQMLTFLIAGHETTSGALSFAL 301
EHN78335.1 DGGR-----GGGD DLLDRMLTAHPRTGERLSPENVRRQVITFLVAGHETTSGALSFAL 310
CAB66201.1 TGGGTGSG--SGSGD DLLDRMLTAHPRTGERLSPQNVRQVITFLVAGHETTSGALSFAL 314
EGG48117.1 S-----GSTGD DLLDRMLTAHPETGERLAPDNVRRQVITFLVAGHETTSGALSFAL 314
EFL20831.1 -----QST DLLLGRMLHTR DAGTGEPLDDVNIRHQAITFLIAGHETTSGALSFAL 291

EFL28515.1	-----SGTDDLGLMLGATHPSDGTPLDHANIRDQVITFLIAGHETTSGALSFAL	285
AEY93311.1	-----GGEGLLDRMLATAHPRTGEKLSPEVRKQVITFLVAGHETTSGALSFAL	304
AEY93321.1	-----SGAEDLLGLMLSAPHPADGTTLDAANIRNQVITFLIAGHETTSGAMSFAL	283
EFD71156.1	TGGGTGSGSGSGRGDLDRMLETAPRTRGERLSPQNVRQVITFLVAGHETTSGALSFAL	316
CBG67789.1	-----TGTDDLGRMLHTRDQVTGEPLDDVNIRHQAITFLIAGHETTSGALSFAL	286
CBG68112.1	-----GRGAGDGDLLDRMLETAPETGERLSEAENVRRQVITFLVAGHETTSGALSFAL	305
EFL10082.1	-----GEVRDLLGLMLAEGHPETGEQLDPVNIRNQAITVVVAGHETTSGALSFAL	317
EFF88741.1	-----TSTDLLGRMLNTPDPVTGELLDEANMRNQVITFLIAGHETTSGALSFAL	285
EDY58112.1	-----SGDGDLLDRMLETAPETGERLSPENVRRQVITFLVAGHETTSGALSFAL	297
EFL36674.1	-----GGQQGDLDRMLETAPVTPGERLAPQNVRQVITFLVAGHETTSGALSFAL	314
EFL36680.1	-----SQADDLLGLMLTAEPDDGSTLDTANIRNQVITFLIAGHETTSGAMSFAL	333
EFE65335.1	-----GGDGDLDRMLDTAHPETGERLSPENVRRQVITFLVAGHETTSGALSFAL	302
EGX54696.1	-----PGDGDLLDRMLDTAHPVTPGERLSSARNVRRQVITFLVAGHETTSGALSFAL	299
ACZ89135.1	G-----E-APRDLLGLMLGAADPRTGERLDDANISNQLVTFLIAGHETTSGLLSFAV	284
ABD83817.1	A-----SDGKKDMLNAMMSGVDRSTGEQLDDVNIRYQINTFLIAGHETTSGLLSYAI	284
ADU39615.1	D-----IATKPDLLSYMIAGVDKKSGEQLTDKMIRDECIEFLIAGHETTSGLLSFAI	283
EJL72014.1	D-----IATKPDLLSYMIAGVDKKSGEQLTDKMIRDECIEFLIAGHETTSGLLSFAI	283

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BAF89518.1 YHLWKYPETMEKLIAEVDEVLGRDFSYKPTYEDVGRLAYTQRVLKEALRLCPPVPMFPRY 433
CBI43648.1 YCLLKNDKLKKAIQEAEVLTGET---PEYKQIQLTYIRMLNETLRLYPTAPAFSLY 337
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EEL50167.1	YYLLKNLDKLRKAYEEVDQVLGPT-----PTYQQVLQLKYIRAMILNESLRLWPTAPAFSLY	416
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EJR50635.1	YFLLKNPDKLKKAYEEVDRVLTDP-----PTYQQVMKLKYIRAMILNESLRLWPTAPAFSLY	338
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EJR91135.1	YYLLKQPEVLKKAYEEVDHVITGSV-----PTYQQVLQLKYIRMIINESLRLWPTAPVFALY	336
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ADV95715.1	YFLLKHPDPLKKAYEEVDRVLTDAA---PTYKQVLELYIRAMILNESLRLWPTAPAFSLY	337
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AEP87558.1	YCLLTHPEKLKKAAQEEADRVLTDDT---PEYRQIQQLKYIRMILNETLRLYPTAPAFSLY	337
sp O08336.1 CYPB_BACSU	YCLLTHPEKLKKAAQEEADRVLTDDT---PEYKQIQQLKYIRMVLNETLRLYPTAPAFSLY	337
sp O08394.1 CYPD_BACSU	YFLLKHPDPLKKAYEEVDRVLTDAA---PTYKQVLELYIRAMILNESLRLWPTAPAFSLY	337
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AEI42011.1 YFLKNPEKLAKEYEEVDRVLTSP---PTYSQVRELKYIRAMILNESLRLWPTAPAFALT 337
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AEY93321 .1	YYLAQHPAVLRLVQREADALWGDTADPEPSYEDIGRLTHTRQLNEALRLWPTAAAFSRH	343
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CBG67789 .1	YYLTKHPEVLARAQAEVDALWGDTDPDPDYGDIGKLTYIRQLNEGLRLWPTAPAYAVE	346
CBG68112 .1	HYLARYPDLAARARAEEVDRVWGDA--ARPGYEQVAKLRYVRRVLDEALRLWPTAPAFSRE	363
EFL10082 .1	YYLTRHPELLAKARAEEVDAWGDR---EPAFGDVAKLRYVRRVLDEAMRLWPTAPGYSRE	374
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EFL36674 .1	HYLSRHPDVAARARAEEVDRVWADA--AEPAYEQVARLRYVRRVLDESLRLWPTAPAFARE	372
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EJQ10567.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EJQ13433.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EJQ20399.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EJQ30236.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EJQ51278.1 AKEDTVI-GGK----YPVKKKENRIMVLIPQLHRDKDAWGDNAEEFHPE-RFE--DPDK 388
EEL10858.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EEL05393.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 403
EEK94080.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 392
EEK99882.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 392
EEK55784.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDR 397
ADK05784.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
AAU17340.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EEL64394.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
AEW56259.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
AFQ11690.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--DLDK 389
EAL16831.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
ACK94296.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EDZ58760.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EJV84218.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EJQ69212.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EJQ80339.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--EPDK 389
EJV81602.1 AKENTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EJQ95474.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EEK44229.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 397
EEK88560.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EJR07451.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EJR16542.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
BAL18840.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EDX69960.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDDVEEFQPE-RFE--ELDK 389
ACM13462.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 389
EEK75631.1 AKEDTVI-GGK----YPIKKGENRISVLIPQLHRDKDAWGENVEEFQPE-RFE--ELDK 389
EEL25491.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK 330
EEL21990.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--EPDK 397
EEL33825.1 AKEDTVI-GGK----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--EPDK 397

EEL44933.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDR	397
EEL50167.1	AKEDTVI-GGK-----YPVKKREDRITVLIPQLHRDKDAWGDNAEWFHPE-RFE--DPDK	467
EJR22930.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKVAWGDNVEEFQPE-RFE--ELDK	389
EJP91231.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EJR37623.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EJR50635.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EJR64551.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--EPDK	389
EJR75620.1	AKEDTVI-GGK-----YPIKKGDKRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--EHDK	389
EJR82049.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EJR83659.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EJR91135.1	AKKDTTI-GGK-----YKIKK-GEAVTVIIPKLHRDKKVWGQDAEQFRPE-RFE--DSSK	386
EJR97241.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EJS05852.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EDX58768.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
AAU24352.1	AKEETVI-GGK-----YLIPK-GQSVTVLIPKLHRDQSVWGEDAEAFRPE-RFE--QMDS	387
ABY44122.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EDW23201.1	AKEDTVI-GGK-----YSIEK-NQSVSVLLPKLHRDQAVWGEDAEEFKPE-RFL--HPEK	386
ABV62358.1	AKEDTII-GGK-----YSIKK-NQSVSVLLPKLHRDQAVWGGEDAEFKPE-RFL--HPEK	386
EIF12263.1	AKEDTVI-GGK-----YPITP-KDRISVLIPQLHRDKDAWGDNAEIFYPE-RFE--HPDQ	386
EIF14027.1	AKEDTVL-GGK-----YPIAK-GQPVTILTPQLHRDKSAWGEDAESFRPE-RFS--DPAA	387
EHL75405.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EJD67577.1	AKEDTVI-GGK-----YPITP-KDRISVLIPQLHRDKDAWGDNAEIFYPE-RFE--HPDQ	386
EJD68347.1	AKEDTVL-GGK-----YPIAK-GQPVTILTPQLHRDKSAWGEDAESFRPE-RFS--DPAA	387
EFV73436.1	AKEETVI-GGK-----YLIPK-GQSVTVLIPKLHRDQSVWGEDAEAFRPE-RFE--QMDS	401
CBY93692.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
AFI27355.1	PKEDTVI-GGK-----FPITT-KDRISVLIPQLHRDRDAWGKDAEERFPE-RFE--HQDQ	387
AFI29229.1	AKEDTVL-GGE-----YPISK-GQPVTILIPKLHRDQNAWGADAEDFRPE-RFE--DPSS	387
EIL85422.1	AKEDTVI-GGE-----FPIEK-NQSVTVLLPKLHRDQAVWGEDAEEFKPE-RFL--HPEK	386
ADV93500.1	AKEDTVL-GGE-----YPISK-GQPVTVLIPKLHRDQNAWGPDAEDFRPE-RFE--DPSS	387
ADV95715.1	PKEDTVI-GGK-----FPITT-NDRISVLIPQLHRDRDAWGKDAEERFPE-RFE--HQDQ	387
BAI84248.1	PKEDTVI-GGK-----FPITT-KDRISVLIPQLHRDRDAWGKDAEERFPE-RFE--HQDQ	387
EFG90288.1	AKEDTVL-GGE-----YPISK-GQPVTVLIPKLHRDQNAWGADAEDFRPE-RFE--DPSR	387
EFG91781.1	PKEDTVI-GGK-----YMITT-QDRISVLIPQLHRDQDAWGEDAEEFRPE-RFE--HQDQ	387
AEP85668.1	PKEDTVI-SGK-----YPITT-KDRISVLIPQLHRDQDAWGEDAEEFRPE-RFE--HQDQ	387
AEP87558.1	AKEDTVL-GGE-----YPISK-GQPVTVLIPKLHRDQNAWGEDAEEAFRPE-RFE--DPSR	387
sp O08336.1 CYPB_BACSU	AKEDTVL-GGE-----YPISK-GQPVTVLIPKLHRDQNAWGPDAEDFRPE-RFE--DPSS	387
sp O08394.1 CYPD_BACSU	PKEDTVI-GGK-----FPITT-NDRISVLIPQLHRDRDAWGKDAEERFPE-RFE--HQDQ	387
AEP89812.1	PKEDTVI-GGK-----FPITT-KDRISVLIPQLHRDRDAWGKDAEERFPE-RFE--HQDQ	387

AEP91702.1	AKEDTVL-GGE-----YPISK-GQPVTVLIPKLHRDQNAWGPDAEDFRPE-RFE--DPSS	387
EHA31094.1	AKEDTVL-GGE-----YPISK-GQPVTVLIPKLHRDQNAWGPDAEDFRPE-RFE--DPSS	389
ADH07708.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EEM28177.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
AFQ14162.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EEM95517.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWRDNVEEFQPE-RFE--DPDK	389
EEN02344.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
AFU13781.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--EPDK	397
EEM70897.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDR	397
ADY22413.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EEM82895.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EEM52818.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EEM59126.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	397
EEM47193.1	AKEDTVI-GGK-----YPIKKGDKRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--EHDK	330
EEM76899.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDR	397
EEM88909.1	AKEDTVI-GGK-----YPIKNGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	397
EEM38196.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EEM21858.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	392
ABK86139.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	397
EJQ37805.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--EPDK	389
CCF04242.1	AKEDTVI-GGK-----YPITP-KDRISVLIPQLHREKDAWGDNAAEFPYPE-RFE--HPDQ	386
CCF05972.1	AKEDTVL-GGK-----YPIAK-GQPVTILTPQLHRDKSAWGEDAELFRPE-RFS--DPAA	387
ABS73124.1	AKEDTVI-GGK-----YPITP-KDRISVLIPQLHRDKDAWGDNAAEFPYPE-RFE--HPDR	386
ABS74786.1	AKEDTVL-GGK-----YPIAK-GQPVTILTPQLHRDKSAWGEDAELFRPE-RFS--DPAA	387
EKE46398.1	AKEDTVI-GGK-----YPITP-KDRISVLIPQLHRDKDAWGDNAAEFPYPE-RFE--HPDL	386
EKE48022.1	AKEDTVL-GGK-----YPIAK-GQPVTILTPQLHRDKSAWGEDAELFRPE-RFS--DPAA	387
CCG48683.1	AKEDTVI-GGK-----YPITP-KDRISVLIPQLHRDKDAWGDNAAEFPYPE-RFE--HPDQ	386
AFJ60789.1	AKEDTVI-GGK-----YPITP-KDRISVLIPQLHRDKDAWGDNAAEFPYPE-RFE--HPDQ	393
AFJ62808.1	AKEDTVL-GGK-----YPIAK-GQPVTILTPQLHRDKSAWGEDAESFRPE-RFS--DPAA	387
EEK66903.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	403
EJQ52935.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EJS69574.1	AKEDTVI-GGK-----YSIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EJV63294.1	AKEDTVI-GGK-----YPIKKGEDRISVLIPQLHRDKDAWGDNVEEFQPE-RFE--ELDK	389
EKF35778.1	AKEDTVI-GGK-----YPIAK-NQSVSVLLPKLHRDQAVWGEDAEEFKPE-RFM--HPET	386
EGP08506.1	PLKDETI-GGK-----YKLKK-GTFVTVLVMALHRDPSVWGPNPVDPE-NFSREAEAK	396
BAL78328.1	PLKDEVIGGGK-----YRLRK-GTFTTILVTALHRDPSVWGPNPDAFDPE-NFSREAEAK	397
BAC48147.1	PLADETIGGGK-----YKLRK-GTFITILVTALHRDPSVWGPNPDAFDPE-NFSREAEAK	397
BAL12135.1	PLNDETIGGGN-----YRLRK-GTFITILVTALHRDPSVWGPNPDAFNPE-NFSREAEAK	397

CCE00185.1	PLQDETI-GGK-----YKLKK-NTFVTILVTALHRDPKVWGPNPDAFDPE-NFSPEAEAK	400
EIG57609.1	PLNDETIIGGGK-----YKLRK-GTFTTILVTALHRDPSVWGPNPDAFDPE-NFSREAEAK	397
EHR02046.1	PLNDETIIGGGM-----YKLRK-GTFTTILVTALHRDPSVWGPNPDAFDPE-NFSREAEAK	397
EJN11211.1	PLADETIGSGK-----YKLRK-GTFITILVTALHRDPSVWGPNPDAFDPE-NFSREAEAK	397
CCF15606.1	AKEDTLL-DGK-----YPLKK-GESINVLIPTLHRDTSVWGDNVEEFRPE-RFE--DPSQ	329
CCF12687.1	ARADTII-GGK-----YAIKK-GEVVALLLPQLHRDKDAWGDDADEFCP-E-RFE--DPDK	387
ABB05850.1	PLADTTF-GGK-----YAVSP-DDIIMILTPMLHRDVS梧GEDVEAFRPE-RFAPENAEQ	391
EHP43606.1	PFEDTVI-GGR-----YLIRK-DRRVSVVLTALHRDPKVW-ADPERFDID-RFLPENEAE	418
ABF10339.1	PFDDVVVL-GGR-----YRLRK-DRRISVVLTALHRDPKVW-ANPERFDID-RFLPENEAK	394
CAJ95800.1	PFEDTLL-GGR-----YLIRK-DRRISVVLTALHRDPKVW-ADPERFDID-RFLPQEAK	420
AEI79937.1	PFEDTLL-GGR-----YLIRK-DRRISVVLTALHRDPKVW-ADPERFDID-RFLPQEAK	420
AFD27790.1	PRARTII-GGR-----YEVYT-DDTLLVLLPALHRDLAVWGPDVDRFDPE-RFAPGALEA	389
ABC62112.1	PFEDEVL-GGK-----YAIAK-GTFTTVLIPSLHRSKLVWGENPEAFNPD-NFSPKAEAA	394
EAQ27850.1	PFEDEVL-GGK-----YLIPK-GTFTTVLIPSLHRSKLVWGENPEVFDPE-NFTAEEAA	394
EIT84377.1	AKEDTVV-GGK-----YEIKK-GERVVLPLRHLRDKEAWGEDADRFRPE-RFL--DYKS	386
CCG43686.1	AKENTTL-AGQ-----YEVEK-GETFTLLLPLQLHRDTSIWGEDAEAFKPE-RFE--DPSQ	387
ABX05160.1	AKHDTNI--GG-----FPIKQ-GEKFIAALLPTLHRDPKVWL-NPNQFDPD-RFAPEVREQ	391
BAJ96920.1	SEEDTVL-GGK-----YQIKK-SDDVVVFIAGLHRDPTVWGPNVEEFDPE-RFSPEKMG	387
GAB96874.1	SLEPTTI-GGR-----GGRDGGPSYAIEP-QDTVLVLTPLSLHRDPAVWA-DPERFDPQ-RFSFERAQ	433
EFH80345.1	PYEETVV-GDK-----YRMDK-DSEWAILIPMLHRDKSVWGEDADEFNPD-HFSHEAEAS	397
EFH88481.1	PYEERPL-AGK-----YQLQP-SDTITVLTPLMLHRDRSISWGDADIFNPDHHFNPPEAKQ	391
EAW32450.1	PLEDTTL-AGV-----YPLKA-GQPILILIGGLHRDEKAWGDNPDLFDPD-RFAPDVAAL	391
EIZ82104.1	PKAPTVI-GGR-----YPVTP-ADTLLILAPILHRDPAVWD-DPEAFRPE-RFAPEAAER	389
AEV70722.1	ALTDVTI-GGK-----YPVRA-GEAVTVLTGALHRQP-GWGDNVEFFDPD-RFDAARSAA	384
EFC41452.1	CKTDQVI-GGK-----YRIHP-SDFIIVNSNSNLHRDKKVWGEDCEQFNP-RMSPENFSS	417
ACV78954.1	PRRATTI-GGG-----YHLDA-GATILIPLPKVHIDPAIWGPDAEVFRPR-RWE--SVGQ	389
ACV78964.1	PFEDTLL-GGK-----YAIPA-GTAMSVVIPSLLHRDRSISWGDADIFNPD-HFSERKAA	394
ACV81379.1	ARTDTVI-GGK-----YLAPK-DVGISVLLPMLHRDPSVWGPDAEDFNPH-HFDPERFAA	394
EIZ78677.1	PHEPTTL-AGR-----YRVTP-EDTLMVLIPLNLHRDPQVWD-DPDAFRPE-RFAPGNAEQ	387
EJW15291.1	VKQDTLL-VDR-----YVMKQ-GDRLLLLLPLQLHRDPAAWGSADAHEFRPE-RFE--DPSR	386
EJW16173.1	AKEDTLL-AGK-----YPLAK-GESVNVLVPRLHRDSAVWGEDAEQFRPE-RFE--DPSQ	389
EHQ58913.1	AKRDTVL-AGK-----YAVNQ-GDRMVVLIPQLHRDVS梧GEDAKVFRPE-RFE--DPSR	386
EHQ59900.1	AKEDTLL-AGK-----YPLKK-GDSVNVLIPKLHRDTSVWGDNVDEFCP-E-RFE--DPSR	387
EHB66924.1	AKEDTTI-GGT-----YSVKQ-GDSVTVLIPGLHRDSRVWGDNVEEFRPE-RFE--DPSK	386
AFH60445.1	AKEDTML-GGR-----YPMQK-GDSVSVLIPKLHRDPSVWGDV рESFIPE-RFE--DPSS	387
AEI42011.1	AKEDTML-GGR-----YPMKK-GDSVSVLIPKLHRDPSVWGDV рESFIPE-RFE--DPSS	387
ADO57681.1	AKEDTLL-DGT-----YPLKK-GDSVNVLIPKLHRDTEAWGEDVEEFRPE-RFE--DPSA	387
EGG32133.1	AKEDTAI-GGT-----YPIKK-GDSVTVLIPGLHRDSRVWGDADAETFRPE-RFE--DPSQ	387

EGL17662.1	AKEDTLL-ADK-----YPLQK-GDSLTVLIPKLHRDKTVWGDDVESF1PE-RFE--DPGK	388
ACX65034.1	AKEDTAI-GGT-----YPMKK-GDSVTVLIPALHRDSRVWGDDAETFRPE-RFE--DPSR	387
ACT11327.1	PTQDTIL-AGK-----YPLTP-KDSIVILQPQLHRDVKAWGDDANLFKPE-RFGPDNAEN	390
AEA28016.1	PYEDVVL-GG-----YRIAK-GSSLTALTMLHRLPEVWGPDAEAEFNPD-HFRAEFRT	398
EFP68091.1	PYEDTRI-GGR-----YAIRK-DQRVVTVLLALHRDPAVW-DRPEVFID-RFLPENEAK	404
EGY61507.1	PYEDTRI-GGR-----YAIRK-DQRVVTVLLALHRDPAVW-DRPEVFID-RFLPENEAK	404
EIE85788.1	CKKDCIL-PGG-----YKIKA-GTPCTVQVYAMHHNNDVY-PDPERFDID-RWIPEEEQK	475
EIE92534.1	CKNDCIL-PGG-----YKIKG-NTPCSIQVYAMHHNNDVY-PDPERFDID-RWTPEEEQK	475
BAE46296.1	VRTDTTL-GGR-----YDMPK-GSWVFVLLPQLHRDP-VWGDEDPESFDPD-RFKPENVKK	443
BAH31604.1	ALEDTTL-VGK-----YPMKK-GDWMLVLIPLSLHRDP-VWGNDPEAFDPD-RFLPANIKA	399
EEN84644.1	ALEDTTL-VGK-----YPMKK-GDWMLVLIPLSLHRDP-VWGNDPEAFDPD-RFLPANIKA	399
EEN88978.1	VRTDTTL-GGR-----YAMPK-GSWVFVLLPQLHRDP-VWGDEDPESFDPD-RFKPENVKK	483
ABG96413.1	ATVDTTL-VGK-----YPMKV-GDWVLVLIPLALHRDP-VWGDDPEAFDPD-HFLPERIRS	431
BAH52971.1	ATVDTTL-VGK-----YPMKV-GDWVLVLIPLALHRDP-VWGENDPEAFDPD-HFLPERNRS	398
EHI44575.1	ATVDTTL-VGK-----YPMKV-GDWVLVLIPLALHRDP-VWGDDPEAFDPD-HFLPERIRS	433
EID73168.1	ATVDTTL-VGK-----YPMKV-GDWVLVLIPLALHRDP-VWGDDPEAFDPD-HFLPERIRS	398
EHK83749.1	VRGETTL-GGR-----TLPK-GSWVFVLLPQLHRDP-LWGDDPERFDID-RFEPAAVRK	374
EJI96173.1	ATVDTTL-VGK-----YPMKV-GDWVLVLIPLALHRDP-VWGDDPEVFIDP-HFLPERIRS	398
ABI79384.1	ARQATTI-DG-----YPIRK-GETILVVLALHRDPALWGDEDPERFDID-RFLPAAVRA	427
CAR47816.1	ARQETTL-AG-----YPIRK-SETILVVLALHRDPQLWGDDVERFDID-RFLPPAVRA	429
AEK26937.1	VRGETTL-GGR-----TLPK-GSWVFVLLPQLHRDP-LWGDDPERFDID-RFEPAAVRK	406
ABE39056.1	PIKDEVI-GGK-----YHLKR-GTFVTVLVLALHRDPAIWGPNPDAFDPE-NFSREAESK	396
ABD08340.1	PIQDETI-GGQ-----YHLKR-GTFTTVLVLALHRDPSIWGPNPDAFDPE-NFSREAESK	395
CAM03474.1	ARHDTVL-GGR-----IPMRA-GEAAAVLIPMLHRSP-VRGDNPELFDP-AFPEAEAA	388
EJF54063.1	SFKEEQV-G-E-----YLIKPK-TDSIFIFLPSLHRAP-IWGDDPKQFNPE-NFSPENEAK	402
AFC23737.1	SFKDEQV-G-E-----YLIKPK-TDSIFIFLPSLHRAP-IWGDEDPKLFNPE-NFSPENEAK	390
ADG98903.1	ARKDTTV-GGH-----AFKQ-KDWVFVLLIGAHRDPSASWGADADRFNP-RFSPENIRS	402
EGI54680.1	PREATTI-GGR-----YAVTP-DDTLLILTPVLHRDPTVWD-EPEAFRPE-RFAPEVAAK	386
AEW97204.1	AVTDTVL-DGR-----VPMRA-GDTALVLTPLVLRDP-VWGDNEAEDPE-RFSPEREAA	407
CAJ88567.1	ARTDTVL-GGS-----YPMRR-GAWALVLAGMLHRDPQVWGPDAEAEFDPD-RFDKAVRS	417
BAC68285.1	PLEDTVI-GGC-----YGLKK-GARVNILEGPLHTPKAW-ERPEEFIDIN-RWLPENRVN	395
BAC75137.1	ARRDTVL-GGV-----HPMRE-GAWALVLTAMLHRDPGVWGADAERFDID-RFDAQAVRS	410
EDY51256.1	PLEDTVI-GGR-----YPVHK-QQPLTVLTPVLRDP-AWGDNPPELFDP-AFDPDQEADS	380
EFG07822.1	PLEDTVI-GGR-----YPVHK-QQPLTVLTPVLRDP-AWGDNPPELFDP-AFDPDQEADS	412
EHN78335.1	AREDTLL-GGA-----YPMRP-GAWALVLTGMLHRDPVWGPDAERFDID-RFDKAVRA	420
CAB66201.1	AREDTVL-GGT-----HPMRR-GAWALVLTGMLHRDPVWGPDAERFDID-RFDKAVRS	424
EGG48117.1	AREDTVL-AGE-----HPMRR-GAWTLVLTPLLHRDPVWGPDAERFDID-RFEAAAVRA	424
EFL20831.1	PLEDTVI-GGK-----YAVRK-GESLLVLIPLQLHRDP-AWGENVELFDPD-RFRPEREEA	402

EFL28515 .1	AREDTML-GGR-----VPMRA-GQPAIVLTPMLHRAA-VWGDNPELFDPD-RFDPEAEAA	396
AEY93311 .1	ARRDTVL-AGD-----HPMRR-GAWTLVLT PMLHREPEVWGEDAERFDPD-RFTPAAVRA	414
AEY93321 .1	AREDTLL-GGR-----IPLRA-GQAVTVLAPMLHRQP-VWGDNPELFDPD-RFTPEAEAA	394
EFD71156 .1	AREDTVL-GGT-----HPMRR-GAWALVLTGMLHRDPEVWGADAERFDPD-RFDAKAVRS	426
CBG67789 .1	PLEDTVI-GGR-----YAVRE-GETIQVLIPQLHRDP-AWGENVELFDPD-RFLPEREQE	397
CBG68112 .1	AREDTVL-GGV-----HPMRR-GAWALVLTSMHLRDPEVWGADAERFDPD-RFDAAAVRG	415
EFL10082 .1	AREDLVL-GGK-----YPMRK-GDSVIVPLPMLHRDPAVGPDPEKFDPD-RFEPAAVRK	426
EFF88741 .1	PLADTVI-GGR-----YPVRR-GQPVMVNLALHRDP-AWGENVELFDPE-RFTREREAA	396
EDY58112 .1	AVEDTVL-AGQ-----HPMRR-GAWTLVLT PMLQRDPEVWGADAERFDPD-RFDPKAVRS	407
EFL36674 .1	AREDTVL-AGE-----HPMRR-GAWALVLT PMLHRDPEVWGADAERFDPD-RFDARAVRS	424
EFL36680 .1	AREDTLL-GGR-----IPLRA-GQAALVLT PMLHRQP-VWGDNPELFDPD-RFTAEEAE	444
EFE65335 .1	AVRDTVL-AGE-----HPMRR-GAWTLVLT PMLHRDPEVWGADAERFDPD-RFDARAVRS	412
EGX54696 .1	AREDTVL-GGV-----HPMRR-GAWALVLTAMTHRDPRVWGPDAERFDPD-RFDPRAVRG	409
ACZ89135 .1	AKHDTV-AGR-----YPLKK-GDVLFVLTPSLHRDPSVWD-DPERFDPA-RFAPGAREN	392
ABD83817 .1	PLKDETIAGGK-----YSLKK-NTFISILVTALHHDPAVGPNPDLFDPE-NFSPEAEAK	397
ADU39615 .1	AKEDTTI-GGQ-----YTIKK-NNMVIMHALALHRDKAIWGENADQFNPD-NFSREAERE	395
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EHR02046.1 RPINAWKPFGNGQRACIGRGFAMHEAALALGMLQRFKLID-HQRYQMHLKETLTMKPDG 456
EJN11211.1 RPINAWKPFGNGQRACIGRGFAMHEAALALGMLQRFKLID-HQRYQMHLKETLTMKPEG 456
CCF15606.1 IPYDAYKPFGNGQRACIGQQFALQEATLVLGMILKYFDIID-HNHYQLKIKETLTLKPEG 388
CCF12687.1 VPHHAYKPFGNGQRACIGMQFALHEATLVLGMILQNFEILD-HTNYQLSIQQTLTIKPEE 446
ABB05850.1 LPPNSWKPFGNGARACIGRPFAMQE AHLVLIMLLQRFDFSFADPDYELDVAETLTLKPG 451
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CAJ95800.1 LPRHAYMPFGNGERACIGRQFALTEAKLALALMLRNQFQFTD-AHDYQFRIKETLTIKPDG 479
AEI79937.1 LPRHAYMPFGNGERACIGRQFALTEAKLALALMLRNQFQFTD-AHDYQFRIKETLTIKPDG 479
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EAQ27850.1 RPPHAYKPFGNGQRACIGRQFAIQESI VLAMILQRFELFD-HSDYKLDIKETLSIKPDE 453
EIT84377.1 IPHHAYKPFGNGQRACIGMQFALHEATLVI GMILLRRTLGD-PTNYTLDI KQTLTIKPN 445
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ACV78964.1 LPPNAYKPFGTGMRSCIGRQFALQEATLVLGM LLQRFQFVD-HRNYQLHTKTTLTVKPD 453
ACV81379.1 VPPLAYRPFGTGLRACIGRQFALQEATLVLGM LLQRFDIID-HRNYQLHTRATLTVKPD 453
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EGY61507.1 LHPHAYKPFQNGERACIGRQFALTEAKLALAVILQRFALSD-PYDYDFHIKETLTLKPDG 463
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EIE92534.1 RSRFAWLPFSTGPRGCIGMAFALQEAKTVLAMFLNRDFKYNGPDVQWDFKT-ATTKPV D 534
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EEN88978.1 RPAHAYRPFGTGP RSCIGRQFALHEAVLTLATILQRYSFQS-DPEYKLDVREALTL KPG V 542
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EHI44575.1 RPAHVYKPFGTGERACIGRQFALHEAVLVLG TILRRYAIVG-DPSYRLKVAERLTL MPEG 492
EID73168.1 RPAHVYKPFGTGERACIGRQFALHEAVLVLG TILRRYDIVG-DPSYRLKVAERLTL MPEG 457
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EJI96173.1 RPAHVYKPFGTGERACIGRQFALHEAVLVLG TILRRYDIVG-DPDYRLKVAERLTL MPEG 457
ABI79384.1 RPAHAYKPFVGVARACIGRQFALHEAVLALAQI LTRFDIVP-TADYELTVEELL TIRPEN 486
CAR47816.1 RPAHAYKPFVGVARACIGRQFALHEAVILALARVLT HFDIAP-VPGYELKVEELL TIRPKN 488
AEK26937.1 RPAHIFKPKWG TGIRACIGRQFALHEAVLTLASLIRRYDFAP-EPGYELDVHEA ITLKPRD 465
ABE39056.1 RPANAWKPFNGNGQRACIGRGFAMHEAALALGMILQRFQLID-HQRYRMVLKETLTI KPEG 455
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CAM03474.1 RGPHAFKPFGTGERACIGRQFALDEATMV LAMLAHRYRLVD-HAGYRLKVKETLTLKPEG 447
EJF54063.1 IPHSAYLPFGHGR RSCIGRPFAFQEAKLAIAMI LQRFDISLADPNYELVLD ETLKPDN 462
AFC23737.1 IPPSAYLPFGNGRRSCIGRPFAFQEAKLAIAMI LQRFDISLADPNYELVLD ETLKPDN 450
ADG98903.1 LPPRIYKPFGTGPRA CIGRQFALHEI I LT LAI ILHQFDLE P-DPGYITATEHPTL KPG 461
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BAC68285.1 HHPHAYKPFNGNGVRACIGRQFALTEARLALVLQKFKFAD-TDDYKMDVKEALTRKPGG 454
BAC75137.1 RAAHTFKPFGTGARACIGRQFALHEATLVLGLL RRYELRA-EPGYRLRV AERLTL MPEG 469
EDY51256.1 RPGHLYKPFNGNGERS CIGRQFALHEATLMLGLIVHRYRLID-HADYELKIKE TLKPDG 439
EFG07822.1 RPGHLYKPFNGNGERS CIGRQFALHEATLMLGLIVHRYRLID-HADYELKIKE TLKPDG 471
EHN78335.1 RAPHTFKPFGTGARACIGRQFALHEATLVLGLL RRYELRP-DPGYRLRVTERLTL MPEG 479
CAB66201.1 RAPHTFKPFGTGARACIGRQFALHEATLVLGLL RRYELRP-EPGYRLRVTERLTL MPEG 483
EGG48117.1 RPAHTFKPFGTGARACIGRQFALHEATLVLGLL RRYTVKP-DPAYRLRIAERLTL MPEG 483
EFL20831.1 RPVHLFKPFNGNGERACIGRQFALHEATLVLALLVHRYRLID-HTNYQLKIK QSLTLKPD E 461

EFL28515 .1	RPVHAYKPFGTGERACIGRQFALHEATMLLAMLVHRYRLID-HADYRLHVKESTLKP 455
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AEY93321 .1	RPVHAFKPFGTGERACIGRQFALHEATMLLALLVHRYRLHD-HAGYRLTVKETLTLKPEG 453
EFD71156 .1	RAPHTFKPFGTGARACIGRQFALHEATVLGLLLRRYELRP-EPGYRLRVTERLTLMPEG 485
CBG67789 .1	RPVHLFKPFGSGERACIGRQFALHEATVLALVIHRYRLID-HTDYQLKIKQSLSLT 456
CBG68112 .1	RAPHTFKPFGTGARACIGRQFALHEATVLGLLLRRYELTP-EPGYRLRVVERLT 474
EFL10082 .1	RPAQAYKPFGTGERACIGRQFALHEAVLALGIMLQRYDFEA-DPAYELKIVESL 485
EFF88741 .1	RSVHLFKPFGNGERACIGRQFALHEATVLGLLVHRYRLID-HADYELKIKSSLT 455
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EFL36674 .1	RAPHTFKPFGTGARACIGRQFALHEATVLGLLLRRYELRP-DPAYRLRVTERL 483
EFL36680 .1	RPVHAFKPFGTGERACIGRQFALHEATMLLAMLVHRYRLD-HADYRLDV 503
EFE65335 .1	RPPHVFKPFGTGARACIGRQFALHEATVLGLLLRRYELRP-DPGYRLRVTERL 471
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ACZ89135 .1	LPDKAWLPFGNGSRSCIGRAFALQEATLVSMLLQRFEFWA 451
ABD83817 .1	PEP-YDLKVKETLTLKPEG
ADU39615 .1	RPVNAWRPFNGQRCACIGRGFAMHEAALALGMI 456
EJL72014 .1	LQRFKLID-HQRYQIRLKETLTIKPDG
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	KEALTIKPEN
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	KEALTIKPEN

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ADE70259.1 FVVKAKSKQIPLGGI-----PS---PSR-----EQSAKKERKTVEN 477
AEN88827.1 FVVKAKSKKIPLGGI-----PS---LST-----EQSAKKVRKKVEN 477
KFN05180.1 FVVKAKSKKIPLGGI-----PS---PST-----EQSAKKVRKKAEN 477
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EFL88452.1 FTMKVKLRPDVMSAKGPTA---DA-----DTDAKKPGENNRE 488
BAF89518.1 LDMLLERRPEVKGRFPVRTEAPKT-----QGAPLAVAQ 579
CBI43648.1 FKIRVKNDVSNQQSAQVHK-----AEG-----GGHKEET---KEIP 480
AEB22839.1 FHIRVRPRSKEAVPAAFTAAE--KAA---EDV-----TK-EKQETKGASIIG 487
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EJQ80339.1 FKIRILPRNQTISHPTVLAPI---EEK---LKE-----HEIKQQVQKTPSIIG 490
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EEK88560.1 FKIRILPRKQTISHPTVLAPT---EDK---LKN-----DEIKQHVQKTPSIIG 490
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EDX69960.1 FKIRIVPRNQTISHTTVLAPT---DEK---LKN-----REIKQQVQKTPSIIG 490
ACM13462.1 FKIRIVPRNQTISHTTVLAPT---EEK---LKN-----HETKQQVQKTPSIIG 490
EEK75631.1 FKIRILPRNQTINHPAVLAPI---EDK---PKN-----HEIKQHVQKTPSIIG 490
EEL25491.1 FKIRILPRKQTISHPTVLAST---EDK---LKN-----DEIKQHVQKTPSIIG 431
EEL21990.1 FKIRILARNQTISHPTVLAPI---EEK---QKD-----HEIKQQVQKTPSIIG 498
EEL33825.1 FKIRILARNQTISHPTVLAPI---EEK---QKD-----HEIKQQVQKTPSIIG 498

EEL44933.1	FKIRIVPRNQTISHTVLAPT---EEK---	-----LKN-----HEIKQQVQKTPSIIG	498
EEL50167.1	FKIKVRFRNQAAIRPSVLTPV---AAT---	PED-----HKTEQQVQNAASLQG	568
EJR22930.1	FKIRILPRKQTISHPTALAPT---EDK---	-----LKN-----HEIKQHVQKTPSIIG	490
EJP91231.1	FKIRILPRKQTISHPTVLAPT---EDK---	-----LKN-----HEIKQHVQKTPSIIG	490
EJR37623.1	FKIRILPRKQTISHPTVLAST---EDK---	-----LKN-----DEIKQHVQKTPSIIG	490
EJR50635.1	FKIRIVPRNETISHTVLAPT---EEK---	-----LKN-----HETKQQVQKTPSIIG	490
EJR64551.1	FKIRILPRNQTISHPTVLAPI---EEK---	QKD-----HEIKQQVRKTPSIIG	490
EJR75620.1	FKIRIIIPRKQTISHPTVLAPT---EGK---	-----LKN-----DEIKQHVQKTPSIIG	490
EJR82049.1	FKIRILPRKQTISHPTVLAPT---EDK---	-----LKN-----DEIKQHVQKTPSIIG	490
EJR83659.1	FKIRILPRKQTISHPTVLAPT---EDK---	-----LKN-----DEIKQHVQKTPSIIG	490
EJR91135.1	FKIRVQLRDKKITSTFNNK---SEKE---	NTS-----ISKQNNKAPNASIIG	486
EJR97241.1	FKIRILPRKQTISHPTVLAPT---EDK---	-----LKN-----DEIKQHVQKTPSIIG	490
EJS05852.1	FKIRILPRNQTISHTVLAPI---EEK---	-----LKN-----DEIEQQVQKTPSIIG	490
EDX58768.1	FKIRIVPRNQTISHTVLAPT---EEK---	-----LKN-----HEIKQQVQKTPSIIG	490
AAU24352.1	FTIRVRPRKKEAMTAMPGAQ-----PEE	-----NGRQEERPSAPAAEN	484
ABY44122.1	FKIRILPRNQTISHTVLAPI---EEK---	-----LKN-----DEIEQQVQKTPSIIG	490
EDW23201.1	FKIKVRPRKQQLFMVPKEE-----TKK	-----S-----TTTDESKVK	478
ABV62358.1	FKIKVRPRKQQLFMAPPKEE-----TKK	-----S-----TTIEESKVK	478
EIF12263.1	FHIRVRPRNKEAVAAALPAAE---KAA	-----EDV-----GK-EKRETKGASIIG	486
EIF14027.1	FKIRVKNDVSNHQPVQNHK-----AEG	-----SGHKEET---KEIP	480
EHL75405.1	FKIRILPRKQTISHPTALAPT---EDK---	-----LKN-----DEIKQHVQKTPSIIG	490
EJD67577.1	FHIRVRPRNKEAVAAALPAAE---KAA	-----EDV-----EK-EKRETKGASIIG	486
EJD68347.1	FKIRVKNDVSNHQPVQNHK-----AEG	-----SGHKEET---KEIP	480
EFV73436.1	FTIRVRPRKKEAMTAMPGAQ-----PEE	-----NGRQEERPSAPAAEN	498
CBY93692.1	FKIRIVPRNQTISHTVLAPT---EEK---	-----LKN-----HETKQQVQKTPSIIG	490
AFI27355.1	FRIKVQTRHQEAIHADIQATE---KPG	-----PDK-----QK-EETETKGASVIG	487
AFI29229.1	FKITVKPRKTAAINVQRREQ-----ADI	-----KTEKPK---ETQP	480
EIL85422.1	FKIKVRPRKQQFFMAPPKEE-----PTK	-----S-----TASAEAKIA	478
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EFG90288.1	FKITVKPRKTAAINVQRKEQ-----ADI	-----KTEKPK---ETKP	480
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AEP85668.1	FRIRVQTRHQEAIHADVPAAE---KAA	-----PDE-----QK-EKTEAKGASVIG	487
AEP87558.1	FKITVKPRKTAAINVQRKEQ-----ADI	-----KTEKPK---ETKP	480
sp O08336.1 CYPB_BACSU	FKITVKPRKTAAINVQRKEQ-----ADI	-----KAETKPK---ETKP	480
sp O08394.1 CYPD_BACSU	FHISVQSRHQEAIHADVQAAE---KAA	-----PDE-----QK-EKTEAKGASVIG	487
AEP89812.1	FHIRVQSRHQEAIHADVQAAE---KAA	-----PDE-----QK-EKTEAKDASVIG	487

AEP91702.1 FKITVKPRKTAAINVQRKEQ-----ADI-----KAETKPK---ETKP 480
EHA31094.1 FKITVKPRKTAAINVQRKEQ-----ADI-----KAETKPK---ETKP 482
ADH07708.1 FKIRILPRKQTISHPTVLAPT---EDK---LKN-----DEIKQHVQKTPSIIG 490
EEM28177.1 FKIRILPRKQTISHPTVLPTT---EDK---LKN-----DEIKQHVQKPPSIIG 490
AFQ14162.1 FKIRILPRKQTISHPTVLAPT---EDK---LKN-----HEIKQHVQKTPSIIG 490
EEM95517.1 FKIRIVPRNQTISHTTVLAPT---EEK---LKK-----HEIEQQVQKTPSIIG 490
EEN02344.1 FKIRILPRKQTISHPTVLAPT---EDK---LKN-----HEIKQHVQKTPSIIG 490
AFU13781.1 FKIRILARNQTISHPTVLAPI---EEK---QKD-----HEIKQQVQKTPSIIG 498
EEM70897.1 FKIRIVPRNQTISHTTVLAPT---EEK---LKK-----HEIKQQVQKTPSIIG 498
ADY22413.1 FKIRIVPRNQTISHTTVLAPT---EEK---LKN-----HETKQQVQKTPSIIG 490
EEM82895.1 FKIRILPRKQTISHPTALAPT---EDK---LKS-----HEIKQHVQKTPSIIG 490
EEM52818.1 FKIRILPRKQTISHPTALAPT---EDK---LKN-----DEIKQHVQKTPSIIG 490
EEM59126.1 FKIRIVPRNQTISHTTVLAPT---EEK---LKN-----HEIKQQVQKTPSIIG 498
EEM47193.1 FKIRIIIPRKQTISHPTVLAPT---EGK---LKN-----DEIKQHVQKTPSIIG 431
EEM76899.1 FKIRIVPRNQTISHTTVLAPT---EEK---LKK-----HEIKQQVQKTPSIIG 498
EEM88909.1 FKIRIVPRNQTISHTTVLAPT---EEK---LKN-----HETKQQVQKTPSIIG 498
EEM38196.1 FKIRILPRKQTISHPTVLAPT---EDK---LKN-----HEIKQHVQKTPSIIG 490
EEM21858.1 FKIRIVPRNQTISHTTVLAPT---EEK---LKN-----HETKQQVQKTPSIIG 493
ABK86139.1 FKIRIVPRNQTISHTTVLAPT---EEK---LKN-----HEIKQQVQKTPSIIG 498
EJQ37805.1 FKIRILARNQTISHPTVLAPI---EEK---QKD-----HEIKQQVQKTPSIIG 490
CCF04242.1 FHIRVRPRNKGAVAAALPAAE--KAA---EDV-----EK-EKRETKGASIIG 486
CCF05972.1 FKIRVKNDVSNHQPVQNHK-----AEG-----GGHKEET---KEIP 480
ABS73124.1 FHIRVRPRNKEDVAAALPAAE--KAA---EDV-----GK-EKRETKGASIIG 486
ABS74786.1 FKIRVKNDVSNHQPVQNHK-----AEG-----SGHKEET---KEIP 480
EKE46398.1 FHIRVRPRNKGAVAAALPAAE--KAA---EDV-----EK-EKRETKGASIIG 486
EKE48022.1 FKIRVKNDVSNHQPVQNHK-----AEG-----GGHKEEM---KEIP 480
CCG48683.1 FHIRVRPRNKGAVAAALPAAE--KAA---EDV-----EK-EKRETKGASIIG 486
AFJ60789.1 FHIRVRPRNKGAVAAALPAAE--KAA---EDV-----EK-EKRETKGASIIG 493
AFJ62808.1 FKIRVKNDVSNQQSAQNHK-----AEG-----SGHKEEM---KEIP 480
EEK66903.1 FKIRILPRNQTISHTTVLAPI---EEK---LKD-----HEIEQQVQKTPSIIG 504
EJQ52935.1 FKIRILSRNQTISHTTVLAPT---EEK---LKN-----HETKQQVQKTPSIIG 490
EJS69574.1 FKIRILPRNQTISHTTVLAPI---EEK---LKN-----HETKQQVQKTPSSIIG 490
EJV63294.1 FKIRILPRNQTISHTTVLAPI---EEK---LKN-----HEIEQQVQKTPSIIG 490
EKF35778.1 FKIKVRPRKQQFFMAPPKEE-----PKK-----S-----TASAASKVA 478
EGP08506.1 FKIKVRPRPDSERKITAKPA-AAST-----GTAAPAAPARARP 492
BAL78328.1 FKIKVRPRADRERGAYGGPV-AA-S-----AAPKAPRQPTARP 492
BAC48147.1 FKIKVRPRADRERGAYGGPV-AAVS-----SAPRAPRQPTARP 493
BAL12135.1 FKIKVRPRADRERGAYGGPV-AVAS-----SGPRAPRKPTTRP 493

CCE00185.1	FKIKVPRNDRDRSAPPSSR-PGTA-----	AQGPSVQSARTRP	496
EIG57609.1	FKIKVPRADRERGAYGGPV-AV-S-----	SAPKAPRQPTARP	492
EHR02046.1	FKIKVPRADRERGAYGGPV-AV-S-----	SAPKAPRQPTARP	492
EJN11211.1	FKIKVPRADRERGAYGGPV-AAAS-----	SGPRAPRQPTTRP	493
CCF15606.1	FTMRVRLRTNELSFQITGK---EKER---E-K-----	TQA-QPTASTIVD	425
CCF12687.1	FYIRVKQRKKQKLDQSSQEPE-VGAVN---IRG-----	TDS-RWEQIKTSIAR	489
ABB05850.1	FRVNVPARGALKVPDT---ALHARS---NAQS-----	PSV-APVQSIAPG	491
EHP43606.1	FTLRARRRAHERIVTAAAAS--IA-----	SAQSQPPVVR	510
ABF10339.1	FVLRVRRRRPHERFVTRQA-S--QA-----	VADAAQTDVR	485
CAJ95800.1	FTVRARRRRPHERIAAAPLAG--TA-----	QAPRAGPDVQ	512
AEI79937.1	FTVRARRRRPHERIAAAPVAG--TA-----	QAPQAGPDVQ	512
AFD27790.1	LRLRARLRGGTARPQDPADQSVAQ-----	ITP--TGGGGPLT	486
ABC62112.1	FTIKARLIRDVERGGVATVEPESK-----	T-PDQAAAVP	486
EAQ27850.1	FTIKARMRKDVERGGKATEDAEEA-----	STEPAEPKVP	487
EIT84377.1	FFITAAPRVDAPPFMQQEKT-----	TSSQTPQLVVT	476
CCG43686.1	LTMRVKSRRDAALMQPAPA---QKE---A-----	EKSSKTEAQSVPD	482
ABX05160.1	LTVRARVRKNIVRSTKPT-Q-----	PNV-AIQSNPNQA	481
BAJ96920.1	FFIRVKTRGTAPHVTPIS---LQPPQ---KG-----	ITE-KAYSTPANV	484
GAB96874.1	LFARFTVRPGRSADRVSARRPEAEPR-----NGQAG-----	GETQS-AAQTLPPSEQ	539
EFH80345.1	FTMKVRKRSDAERNLQGFVK-PVEV-----	TATREEKKAQVVAN	494
EFH88481.1	FYMRVRPTIDHIIITPLDEDTVSET---ELV-----	MVEAIHPEPEVPQKI	495
EAW32450.1	FRLRLKKRTDQDRKLNVQTGPEID-----	DRPKVKDVANLTS	487
EIZ82104.1	FRIHARRGAARPR--S-AVPTAPQRP-----	MT--AGRGTGAPAR	484
AEV70722.1	FCLDVVPPTPDDRRSDVLVDTADTAVR-----	PTPAHVTAM	479
EFC41452.1	LFLKVVKPRSNWKGSQLVRTNASNTSSE-----	NSH-TDDQNSTST	516
ACV78954.1	VTLRFLARPGVSAGTAAATASPADVRP---ADGRGTGTDMPGATAAGSVQPPPNSD	505	
ACV78964.1	FFIKVKLRPGRALVHREAAAAATA-----	AP-AAVARPAVA	489
ACV81379.1	MWIRLRPREGFAGVARAQAAVTGAA-----	DEGPAAEADASAVAT	492
EIZ78677.1	FRIRARRRDDITVRARS-KIPALAPKA-----	LSP-VSAPAQANA	485
EJW15291.1	FTMQVRPRTNEAISVHG---GQRI---PSI-----	LET-T-AISELNSSF	484
EJW16173.1	FRIRIRQRKKLGAVAWSEK---GAAA---GES-----	REQEHVQQAPLAE	487
EHQ58913.1	FTIKIRPQQTGFIFAGG---GSGT---PAL-----	RKN-AAELEALDPAE	485
EHQ59900.1	FTIRVRLAGQGAFTISAV---GNEA---PVG-----	KPA-VQTAAPTVE	484
EHB66924.1	FHIKIRNRQDGTLMPGG---GAAA---STE-----	SEKRQSTSPEP-VTH	485
AFH60445.1	FTMRVRSRIEPLAVVMPGR---EAAP---LEE-----	KRE-QAAEAAPVP	484
AEI42011.1	FTMRVRSRIEQAVVMPGR---EAAP---LEE-----	KRE-QAAEAAPVP	484
ADO57681.1	FTIQVRPRSTQTTIMLPGA---AQEL---HEK-----	EEQKVAAPHAE	483
EGG32133.1	FRIQVRSRQGGTALLVPGG---GQVA---SLE-----	SKKRDDVKSDPSAAF	487

EGL17662.1	FTMKVEPRQQGVAVTIPGT----AVSA---ADD-----KRVKEQAAPLSVN	486
ACX65034.1	FRIQVRSRQGGTALLVPGG----GQVA---SLE-----SKKRDDAKSDPSAAF	487
ACT11327.1	LKIRIRVRKPSKT--LAR---GVTPKE---TSNK-----MAV-MPVAKAQHH	488
AEA28016.1	LFIQLRPRPDRTTGTVVVAPNAQA-----PAAKPKLRLAPVGD	496
EFP68091.1	FRLRARLRNARERLSIAAPSRAEAT-----TQVDAESALA	498
EGY61507.1	FRLRARLRNARERLSIAAPSRAEAT-----TQVDAESALA	498
EIE85788.1	LFMTIHPRENFPEPNGKAASKSATM---TERDGQTAM-----PVISDNIGTK	580
EIE92534.1	LFMTIHPRENFPKPNQGDSVPPQKSDASSNQAESKTATAM-----PVISAQKNAD	583
BAE46296.1	FELSLQRR-----	510
BAH31604.1	FNLTVRRR-----	466
EEN84644.1	FNLTVRRR-----	466
EEN88978.1	LKLSLQRL-----	550
ABG96413.1	FTLQLRRR-----	498
BAH52971.1	FTLRIRRR-----	465
EHI44575.1	FTLQLRRR-----	500
EID73168.1	FTLQLRRR-----	465
EHK83749.1	LRVRLSPA-----	441
EJI96173.1	FTLQLRRR-----	465
ABI79384.1	LKLAMRPRKG-----	497
CAR47816.1	LRLVMRPRKR-----	498
AEK26937.1	LRVRLSPA-----	473
ABE39056.1	FKIKVRPRSDKRGDFVAAG-ASQV-----STPALAQAAPRARP	493
ABD08340.1	FKIKVRPRSDKRATRIASG-VSHS-----VAP--APAAPRARP	490
CAM03474.1	LTLAVRARTAADRVTNRLALPVGLP-----SAAPGEP--ADAARRPGRV	489
EJF54063.1	YFLKFKKRPGFKPVEDG--PKVRPSQ---NLQLK-----GN-----KQVFV	498
AFC23737.1	YFLKFKKRPGFKPVENG--PKVPASQ---SLKLK-----GG-----KQIYV	486
ADG98903.1	LRLRLHTRSR-----	471
EGI54680.1	LHIHARRRDGLVARPRS-TAQDAPTRP-----LAA-AS---APSL	481
AEW97204.1	FTLKLARRTSADRVRTVASR-----AAEGTA--GQDAGLPTTA	502
CAJ88567.1	LRLRLERRAGSGRA-----GTGPD-----	495
BAC68285.1	FELNVRARQEHERTVFGAADL--QT-----DDTQAQAAVS	487
BAC75137.1	LRLRLDRRVPAVEDVPVAN-----	488
EDY51256.1	FTLVPVRREEERRAATVSRETAERA----GAMG---P-SGTTGGPGATGTAVPAGLR	490
EFG07822.1	FTLVPVRREEERRAATVSRETAERA----GAMG---P-SGTTGGPGATGTAVPAGLR	522
EHN78335.1	LRLHLDRTAAPASSPPHPDGAGAA-----	504
CAB66201.1	LRLHLVRRTAAAPAPGRR--TAAPG-----	506
EGG48117.1	LRLGLERREAPPVVRASPP-----	502
EFL20831.1	FTLDLVRRTAAEWRRPAVT-SAP-----AALERPAARR	494

EFL28515.1	LTLRLIPRTTEERAVGA-----A-----	AVATSAP--ARDASLPTRV	490
AEY93311.1	LRLRLERRPALTKADEGRPAGARGSVR-----G-----A-A-----		503
AEY93321.1	FTLTLTPRTPADRVHAPLPGAAAAP-----A-----AGT--PAPDALPARV	492	
EFD71156.1	LRLHLVRRTAAAPAPGRR--TAAPG-----		508
CBG67789.1	FTLRLARRTAGERRPLVASDRAP-----	AGEAPPAVRR	490
CBG68112.1	LRLRVRRRAGAGTDAPRTPSS-----		495
EFL10082.1	FTVRPRLRERAALTS-----		501
EFF88741.1	FTIKPARRSSGERRTPAIADASTAA-----	ATATRDGSTVRR	491
EDY58112.1	LRLHLERRAGRVTVAAPEADP-----		487
EFL36674.1	LRLRPERRSAVR-----		495
EFL36680.1	FTLALAPRTCADRVTPLPGAIQAO-----D---AES--AEPQGLPARV	542	
EFE65335.1	LRLRPERRTAPAVPRTRRADGDAAS-----		496
EGX54696.1	LRLRPARRAPAAAAPSGA-DAPGP-----		491
ACZ89135.1	LRIRARVRQAVERAAPAP-E-----	PSA-PPQDRP-VT	481
ABD83817.1	FKIKVRPRSGHDRTVHAEAA-TAAV-----	ATGAALPRARPRP	493
ADU39615.1	FKIKALLRDPASRPRGNGET-TAAP-----	DAPAKPAARKPQAA	492
EJL72014.1	FKIKALLRDPATRPRGNMSAAAAP-----	VQPTQPAQRKQQAA	493

sp | P14779.2 | CPXB_PRIM2 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
ADF40088.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
ADE70259.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
AEN88827.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
KFN05180.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
ACZ37122.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
ADA57055.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
ADA57058.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
ADA57059.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
ADA57061.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPR-VATLDHA-----GN 523
ADA57062.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
ADA57068.1 AHNTPLLVLYGSNMGTAEGTARDLADIAMSKGFAPQ-VATLDHA-----GN 523
AAT62301.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 536
AAM54108.1 RHGTPLHVFYGSNGSGEGLARTIAGDGAARGWATS-VAPLDDAV-----RA 528
EFQ83738.1 -----ESTC----- 488
EFL88452.1 KHGGKVTAIFGSNLGTTEIARDMARAETNGFDVK-LKTLDELV-----GN 534
BAF89518.1 AGGRPMRVLYGSNMGGCRDIALSLAQAGARGFAAT-VAELDEQVG-----QP 626
CBI43648.1 SHGTPLLILYGSNLGTAEGIAEELADIGRSKGSSE-TGPLDDYA-----GK 526
AEB22839.1 LDNRPLLILYGSDTGTAEGVAWELADTAGMHGV RTE-TAPLNDRI-----GK 533
EDT22025.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VAALNDRI-----GS 536
AFH84458.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VAALNDRI-----GS 544
ADP31197.1 VNNRPPLLILYGSDTGTAEGVARELADTASMHGV RTE-VAALNDQI-----GK 533
ACP19384.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 536
ADL27534.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 536
ACO29732.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 536
EDX65100.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 536
EEK61456.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 536
EEL16232.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 544
EDZ53094.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 536
EEL81346.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 550
EEL87105.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 550
EEL75761.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 477
ACK88541.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 536
EJQ05303.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VAALNDRI-----GS 536
EEK50040.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 536
AAS42149.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VAALNDRI-----GS 536
AAP10153.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----GS 536
EEK83466.1 ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VAALNDRI-----GS 544

ACK63698 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV RTE-VVALNDQI-----GS 477
EJS57156 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EJS56605 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EJS68951 .1	LNNRPLLVLGYGSDTGTAEGLARELADTASLHGV RTE-VSPLNDRI-----GN 535
EJQ10567 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EJQ13433 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNERI-----GS 536
EJQ20399 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV RTE-VVALNDRI-----GS 536
EJQ30236 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EJQ51278 .1	LNNRPLLVLGYGSDTGTAEGLARELADTASLHGV RTE-VSPLNDRM-----GN 535
EEL10858 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EEL05393 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 550
EEK94080 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 539
EEK99882 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 539
EEK55784 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 544
ADK05784 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 536
AAU17340 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 536
EEL64394 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
AEW56259 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
AFQ11690 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 536
EAL16831 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 536
ACK94296 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EDZ58760 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 536
EJV84218 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EJJ69212 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EJJ80339 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EJV81602 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EJQ95474 .1	TDNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 536
EEK44229 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 544
EEK88560 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 536
EJR07451 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 533
EJR16542 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 536
BAL18840 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 536
EDX69960 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VTALNDRI-----GS 536
ACM13462 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 536
EEK75631 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VAALNDRI-----GS 536
EEL25491 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNDRI-----GS 477
EEL21990 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNERI-----GS 544
EEL33825 .1	ADNLSSLVLYGSDTGVAEGLARELADTASLEGV QTE-VVALNERI-----GS 544

EEL44933.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VAALNDRI-----GS 544
EEL50167.1	LNNRLLLVL VLYGSDTGV AEGV ARELADTASLHGV RTE-VSPLNDRI-----GN 614
EJR22930.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNDRI-----GS 536
EJP91231.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNDRI-----GS 536
EJR37623.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNDRI-----GS 536
EJR50635.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VAALNDRI-----GS 536
EJR64551.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNERI-----GS 536
EJR75620.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNDRI-----GS 536
EJR82049.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNDRI-----GS 536
EJR83659.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNDRI-----GS 536
EJR91135.1	AKYKTLLVLYGSNMGTAEHI AKEIVDFARLQGIQSE -LSALNDWS-----SN 532
EJR97241.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNDRI-----GS 536
EJS05852.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNDRI-----GS 536
EDX58768.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VAALNDRI-----GS 536
AAU24352.1	THGTPLLVLYGSNL GTAEEIAKELAEE AREQGFHSR-TAELDQYA-----GA 530
ABY44122.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNDRI-----GS 536
EDW23201.1	SHGTPLLVLYGSNL GTAQQIANELAEE EGKAKGFDVT-TAPLDDYT-----RQ 524
ABV62358.1	SHGTPLLVLYGSNL GTAQQIANELAED GKAKGFDMT-TAPLDDYA-----RQ 524
EIF12263.1	LDNRPLL LILYGSDTGTAEVG ARELADTAGMHGV RT E-TAPLNDRI-----GK 532
EIF14027.1	SHGTPLL LILYGSDTGTAE GIAELADIGRSKG FSTE -TG PLDDY A-----GK 526
EHL75405.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VVALNDRI-----GS 536
EJD67577.1	LDNRPLL LILYGSDTGTAEVG ARELADTAGMHGV RT E-TAPLNDRI-----GK 532
EJD68347.1	SHGTPLL LILYGSDTGTAE GIAELADIGRSKG FSTE -TG PLDDY A-----GK 526
EFV73436.1	THGTPLLVLYGSNL GTAEEIAKELAEE AREQGFHSR-TAELDQYA-----GA 544
CBY93692.1	ADNLSSLLVLYGSDTGV AEGI RELADTASLEGVQTE-VAALNDRI-----GS 536
AFI27355.1	LNNRPLL LILYGSDTGTAEVG ARELADTASLHGV RT E-VSPLNDQI-----GK 533
AFI29229.1	KHGTPLLVLYGSNL GTAEGIAGELAAQGRQM GFTAE-TAPLDDYI-----GK 526
EIL85422.1	SHGTPLLVLYGSNL GTAQMANEFAED GKAKGFDVT-TAPLDDYT-----RK 524
ADV93500.1	KHGTPLLVLYGSNL GTAEGIAGELAAQGRQM GFTAE-TAPLDDYI-----GK 526
ADV95715.1	LNNRPLL LILYGSDTGTAEVG ARELADTASLHGV RT E-TAPLNDRI-----GK 533
BAI84248.1	LNNRPLL LILYGSDTGTAEVG ARELADTASLHDVR TE -TAPLNDRI-----GK 533
EFG90288.1	KHGTPLLVLYGSNL GTAEGIAGELAAYGRQM GFTAE-TAPLDDYI-----GK 526
EFG91781.1	LNNRPLL LILYGSDTGTAEVG ARELADTASLHGV RT E-VAPLNDRI-----GK 533
AEP85668.1	LNNRPLL LILYGSDTGTAEVG ARELADTASLHGV RT E-VAPLNDRI-----GK 533
AEP87558.1	KHGTPLLVLYGSNL GTAEGIAGELAAYGRQM GFTAE-TAPLDDYI-----GK 526
sp O08336.1 CYPB_BACSU	KHGTPLLVLF GSNLGTAEGIAGELAAQGRQM GFTAE-TAPLDDYI-----GK 526
sp O08394.1 CYPD_BACSU	LNNRPLL LILYGSDTGTAEVG ARELADTASLHGV RT K-TAPLNDRI-----GK 533
AEP89812.1	LNNRLLL VLYGSDTGTAEVG ARELADTASLHGV RT E-TAPLNDRI-----GK 533

AEP91702.1	KHGTPLLVLYGSNLGTAEGIAGELAAQGRQMGFTAE-TAPLDDYI-----	GK 526
EHA31094.1	KHGTPLLVLYGSNLGTAEGIAGELAAQGRQMGFTAE-TAPLDDYI-----	GK 528
ADH07708.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 536
EEM28177.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 536
AFQ14162.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 536
EEM95517.1	ADNLSLLVLYGSDTGVAEGIARELADTAGLEGVQTE-VAALNDRI-----	GS 536
EEN02344.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 536
AFU13781.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNERI-----	GS 544
EEM70897.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 544
ADY22413.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VAALNDRI-----	GS 536
EEM82895.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 536
EEM52818.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 536
EEM59126.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VAALNDRI-----	GS 544
EEM47193.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 477
EEM76899.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 544
EEM88909.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VAALNDRI-----	GG 544
EEM38196.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 536
EEM21858.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VAALNDRI-----	GS 539
ABK86139.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 544
EJQ37805.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNERI-----	GS 536
CCF04242.1	LDNRPLLILYGSDTGTAEGVARELADTAGMHGVRTE-TAPLNDRI-----	GK 532
CCF05972.1	SHGTPLLILYGSNLGTAEGIAEELADIGRSKGFSTE-TGPLNDYA-----	GK 526
ABS73124.1	LDNRPLLILYGSDTGTAEGVARELADTAGMHGVRTE-TAPLNDRI-----	GK 532
ABS74786.1	SHGTPLLILYGSNLGTAEGIAEELADIGRSKGFSTE-SGPLDDYA-----	GK 526
EKE46398.1	LDNRPLLILYGSDTGTAEGVARELADTAGMHGVRTE-TAPLNDRI-----	GK 532
EKE48022.1	SHGTPLLILYGSNLGTAEGIAEELADIGRSKGFSTE-TGPLDDYA-----	GK 526
CCG48683.1	LDNRPLLILYGSDTGTAEGVARELADTAGMHGVRTE-TAPLNDRI-----	GK 532
AFJ60789.1	LDNRPLLILYGSDTGTAEGVARELADTAGMHGVRTE-TAPLNDRI-----	GK 539
AFJ62808.1	SHGTPLLILYGSNLGTAEGIAEELADIGRSKGFSTE-TGPLDDYA-----	GK 526
EEK66903.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 550
EJQ52935.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 536
EJS69574.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 536
EJV63294.1	ADNLSLLVLYGSDTGVAEGIARELADTASLEGVQTE-VVALNDRI-----	GS 536
EKF35778.1	SHGTPLLILYGSNLGTAQMANEFAEDGQAKGFDVT-TAPLDDYT-----	GK 524
EGP08506.1	GHNTPLLVLVLYGSNLGTAEEELATRVADLAEVNGFDK-LGTLDEYA-----	GH 538
BAL78328.1	GHNTPMLVLVLYGSNLGTAEEELATRMADLAEINGFAVH-LGPLDDYV-----	GK 538
BAC48147.1	GHNTPMLVLVLYGSNLGTAEEELATRMADLAEINGFAVH-LGALDEYV-----	GK 539
BAL12135.1	GHNTPMLVLVLYGSNLGTAEEELATRMADLAEINGFAVH-LGPLDDYV-----	GK 539

CCE00185.1 GHNTPLLVLYGSNLGTAEDMATRVADLAEVNGFSTR-LAPLDDFA-----GQ 542
EIG57609.1 GHNTPMLVLYGSNLGTAEEELATRMADLAEINGFAVH-LGPLDDYV-----GK 538
EHR02046.1 GHNTPMLVLYGSNLGTAEEELATRMADLAEINGFAVH-LGPLDDYV-----GK 538
EJN11211.1 GHNTPMLVLYGSNLGTAEEELATRMADLAEINGFAVH-LGSLDDYV-----GK 539
CCF15606.1 AHNTPLLVLYGSNLGTAEGIARELAEDARFQGFKSE-VAPLNDYL-----GK 471
CCF12687.1 VNHVSLLILYGSNLGTAERTARELSTIAGSLGIRSE-MAPLDDWL-----GK 535
ABB05850.1 EDLSNLLVLFGGNTGSAESFARRIAGDASRHFAT-CAPLDDFA-----GK 537
EHP43606.1 GNGQPLSVLCGSSLGTARELAEQIHAGALAAGFAAT-LRDLDEAV-----GA 556
ABF10339.1 GHGQAMTVLCASSLGTARELAEQIHAGAIAAGFDAK-LADLDDAV-----GV 531
CAJ95800.1 GRGRRTLAVLCGSSLGTARELAEQVHAGALAAGFDAT-LRDLDVA-----DA 558
AEI79937.1 GGGRPLAVLCGSSLGTARELAEQVHAGALAAGFDAT-LRDLDVA-----DA 558
AFD27790.1 AEGIQLLVLYGSESEGASEGFARQIAGDAAAHCQAT-VHSLDEQAG-----TGS 534
ABC62112.1 SHGTPLLVLYGSNLGSSEGFARELAQRGEFSGFDVT-MAPLDAHV-----AK 532
EAQ27850.1 KHDTPLLVLYGSNLGSSESFAREVAQKGEGFSGFEVE-MAPLDDYV-----GK 533
EIT84377.1 GKPASLLVLYGSEMGTAEGMAREIAETASQRGIKST-VAPLSAGI-----DA 522
CCG43686.1 AHLTPLLVLYGSNMGTAEGVARELAQTGKLQGFDVK-TAPLNQYT-----SA 528
ABX05160.1 QHNIPLLVLYGSNSGSSEAFARRIASDGEGARYQTS-VAALNNYV-----NK 527
BAJ96920.1 EANTPLLVLYGSNSGSSESFASRIASESKLNGYYST-LATLDEYV-----GH 530
GAB96874.1 QHGPVRLFGSNAQTSEAFQQVAQQATRLGYAPR-VTSLDEGV-----DD 585
EFH80345.1 QHHTPLLVLHGSMGTSEELAHTIMEDGKLRGFDAQ-VASLDDYT-----RK 540
EFH88481.1 AQKTTLLALYGSNTGTAEEVAHRIAEGTARGFEAT-VGELDNYV-----DK 541
EAW32450.1 DHATPLLILHGSNMGSAAQIAARLAEAGESVGFVVS-SGSLDEYT-----NR 533
EIZ82104.1 EATTPLLVLYGSNTGSCQAFARIAGEAAGQGYAAT-AAPMDDYV-----ER 530
AEV70722.1 KKGTTLAVLFGSNLGTCRALATQLAEEATDMGCTVT-VGPLVDAVG-----G- 525
EFC41452.1 ESKGPLLVLYGSNSGTCESFASMLHQDAKSKGFCK-VGRLNTFT-----GN 562
ACV78954.1 GHQQLRVVAASSDGGTARHLGYDLAHEVDAGDAAD-GVELNALV-----DR 551
ACV78964.1 GHGTPLTVLFGSNLGTAEGIATKLAGTERGFDVT-LAPLDEHV-----GQ 535
ACV81379.1 AHGTPLLVLFGSNLGTAEGIANRLGREGADRGYAVT-VAALDDHG-----PD 538
EIZ78677.1 GAATPLLVLYGSNSGSSEAFAGRIARDAAAQGYAAL-AAPLDDYV-----ER 531
EJW15291.1 PHNIPLLVLYGSNLGTAEGIARELAEKGRQLGFKSK-VAPLNDYA-----AD 530
EJW16173.1 AHDTPLLVLYGSNLGTAEGIARELADEGRYQGFFSQ-VAPLSDYV-----GK 533
EHQ58913.1 RHDTPLLVLYGSDLGTAEGIAREMADTARYQGFQSK-VAPLDDYA-----GK 531
EHQ59900.1 AHNTPLLVLYGSNLGTAEGIARELADTARYQGFRSE-VAPLNERV-----GK 530
EHB66924.1 AHHTPLLALYGSNLGTAEGIAREVADAALKHGFDSQ-VGTLDDFA-----GR 531
AFH60445.1 KHNTPLLVLYGSNLGTAEGIARELADAARYQGFSSE-TAPLDEHV-----GS 530
AEI42011.1 KHNTPLLVLYGSNLGTAEGIARELADAARYQGFSSE-TAPLDEHV-----GS 530
ADO57681.1 KHDTSSLSSLYGSNLGTAEGLAGELADLGRNWGFKSS-IATLNDHV-----DH 529
EGG32133.1 AHHTPLLALYGSNLGTAEGIAREVADAALKHGFDSQ-VGTLDEYA-----GK 533

EGL17662.1	AHNTPLLVLVYGSNLGTAEGIARELADAALKYQGFRPE-VASMNDYA-----	GK 532
ACX65034.1	AHHTPLLALYGSNLGTAEGIAREVADAALKHQGFDQS-VGTLDEYA-----	GK 533
ACT11327.1	QDLIPLLVLHGGNTGSSEAFANRIAADAQRYGFAST-LAALDDYA-----	EK 534
AEA28016.1	RHGTPLTFLFGSNLGTAEGIATRIAQDGADRGFAVT-LGALDDHV-----	AD 542
EFP68091.1	GGGEPMHVLYGGSLGTCQDIAEQLAATASRAGFDAK-VAPLDAIA-----	DA 544
EGY61507.1	GGGEPMHVLYGGSLGTCQDIAEQLAATASRAGFDAK-VAPLDAIA-----	DA 544
EIE85788.1	VELPPITFLYGTQGTAAQDYATILSEQARSFGFTQVTLCEMDRWNVLADGKFISNDDDK	640
EIE92534.1	VELPPITFLYGTQGTAAQDYATVLASQAKGFGFKNTTLCEMDWKVLADGKFISDNKDKK	643
BAE46296.1	-----	510
BAH31604.1	-----	466
EEN84644.1	-----	466
EEN88978.1	-----	550
ABG96413.1	-----	498
BAH52971.1	-----	465
EHI44575.1	-----	500
EID73168.1	-----	465
EHK83749.1	-----	441
EJI96173.1	-----	465
ABI79384.1	-----	497
CAR47816.1	-----	498
AEK26937.1	-----	473
ABE39056.1	DHNTPLLVLVYGSNLGTAEEELATRVADLAELNGFSTR-LGALDQYV-----	GH 539
ABD08340.1	GHNTPLLVLVYGSNLGTAEEELAHRVADLADLNGFATR-LGALDQYV-----	GQ 536
CAM03474.1	LPGTGLLLHGSNYGTCRDFAAQLALAAGELGCDTA-VAPLDEYA-----	GN 535
EJF54063.1	QNKPPLYLAYGSNMGSSKKFIQQLAETAQALGYQPS-VHSLNETKA-----	LM 545
AFC23737.1	QNKPPLYLAYGSNMGSSKKFIQQLAETAQALGYQPS-VHSLNETKA-----	LM 533
ADG98903.1	-----	471
EGI54680.1	GDNGSLLVLVYGSNTGTSEAFAQIRIGADAAAQGYAT-VAPLDDYA-----	SG 527
AEW97204.1	RPGTTLTVLHGSNLGACREFAAGLADLGERCGFETT-VAPLDAYRA-----	GD 549
CAJ88567.1	-----RAAVAE-----	501
BAC68285.1	GVGVNLTVAYGSSLGSCEDLARTIADRGERSGFGTT-LVGLDELG-----	DN 533
BAC75137.1	-----	488
EDY51256.1	APGTTLTVLHGSNLGTSRTLADLADQGARHGFRTS-LAPLDDAVG-----	AL 537
EFG07822.1	APGTTLTVLHGSNLGTSRTLADLADQGARHGFRTS-LAPLDDAVG-----	AL 569
EHN78335.1	-----GEQDAG-----	510
CAB66201.1	-----AADDAG-----	512
EGG48117.1	-----	502
EFL20831.1	NTGTALTLLHGSNLGTCAGITRDLAEDGGERGFTAT-ATPLNEAVG-----	KL 541

EFL28515.1	RQDTGALLFGTNFGTCRSFAEDLAAAADGLGCATE-VAPLDRYA-----GG	536
AEY93311.1	-----DAAWARPARDAAADDRRHDPA-----	524
AEY93321.1	RPGTRALFLHGSNYGTCRDFAARLADEAAAVGCATE-VAALDAYK-----DG	538
EFD71156.1	-----AADDAG-----	514
CBG67789.1	AAGTTLTLHGSNLGTCAGIARELAEDGEQHGFAPT-VASLDSAAG-----TL	537
CBG68112.1	-----	495
EFL10082.1	-----	501
EFF88741.1	ATGTALTLLHGSNLGTCGMARDLAADGDEHGFTTA-VASLNDYAG-----RL	538
EDY58112.1	-----D-----	488
EFL36674.1	-----	495
EFL36680.1	RPGTAALFLHGSNYGTCRDFAAQLADEAAAVGCETE-VAPLDAYA-----GG	588
EFE65335.1	-----AARRSSARVG-----	506
EGX54696.1	-----	491
ACZ89135.1	AHGTPLLLLYGSNSGASEAFARRVAGDAAARGYAAR-VAPLDEHV-----GR	527
ABD83817.1	GHNTPLLVLYGSNLGTAEDLATRVADLAEVNGFATR-LAPLDDCA-----GQ	539
ADU39615.1	RHGTSLVLQGSNLGTAEDLARQLAEAGELRGFSTQ-VASLDDYA-----ER	538
EJL72014.1	RHGTSLVLQGSNLGTAEDLARQLAEAGETRGFSTQ-LASLDDYA-----ER	539

sp P14779.2 CPXB_PRIM2	LP-REGAVLIVTASYNGHPPDNAKQFVDWLDQAS-----ADEVKGVRYSVFGCGDKNWAT	577
ADF40088.1	LP-REGAVLIVTASYNGHPPDNAKQFVDWLDQAS-----ADEVKGVRYSVFGCGDKNWAT	577
ADE70259.1	LP-REGAVLIVTASYNGHPPDNAKEFVDWLDQAS-----ADEVKGVRYSVFGCGDKNWAT	577
AEN88827.1	LP-REGAVLIVTASYNGHPPDNAKEFVDWLDQAS-----ADEVKGVRYSVFGCGDKNWAT	577
KFN05180.1	LP-REGAVLIVTASYNGHPPDNAKQFVDWLDQAS-----ADEVKGVRYSVFGCGDKNWAT	577
ACZ37122.1	LP-REGAVLIVTASYNGHPPDNAKEFVDWLDQAS-----ADEVKGVRYSVFGCGDKNWAT	577
ADA57055.1	LP-REGAVLIVTASYNGHPPDNAKQFVDWLDQAS-----ADDVKGVRYSVFGCGDKNWAT	577
ADA57058.1	LP-PEGAVLIVTASYNGHPPDNAKEFVDWLDQAS-----ADEVKGVRYSVFGCGDKNWAT	577
ADA57059.1	LP-REGAVLIVTASYNGHPPDNAKQFVDWLDQAS-----ADDVKGVRYSVFGCGDKNWAT	577
ADA57061.1	LP-REGAVLIVTASYNGHPPDNAKEFVDWLDQAS-----ADEVKGVRYSVFGCGDKNWAT	577
ADA57062.1	LP-REGAVLIVTASYNGHPPDNAKQFVDWLDQAS-----ADDVKGVRYSVFGCGDKNWAT	577
ADA57068.1	LP-REGAVLIVTASYNGHPPDNAKEFVDWLDQAS-----ADEVKGVRYSVFGCGDKNWAT	577
AAT62301.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
AAM54108.1	LP-ASGPVVIVSSSYNGAPPDNAAHFVRWLQTQDG-----P-DLSGVYDYLVLGCNLDWSA	581
EFQ83738.1	-----QAGLNAISQTCPSGS DT-----	505
EFL88452.1	MP-KEGALLLACASYNGQPPDNAAQFVDWVKE-Q-----PAGSMMDGINYALFGCGHSDWSA	588
BAF89518.1	WL-TDGPVVIVTSTYNTGTPPDNAARFAKWLETAP-----AGVCAGVRRAVLGCGNTQWHQ	680
CBI43648.1	LP-VKGAVVIVTASYNGAPPDNAAGFVKWMETLE-----DQELKGVS YAVFGCGDRNWAA	580
AEB22839.1	LP-KEGALLIITSSYNGKPPSNAGQFVQWLEEVK-----QELEGVRYAVFGCGDHNWAA	587
EDT22025.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----GDELKGVQYAVFGCGDHNWAS	590
AFH84458.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----GDELKGVQYAVFGCGDHNWAS	598
ADP31197.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEEIK-----PGE LTGVQYAVFGCGDHNWAS	587
ACP19384.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
ADL27534.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----SDELKGVQYAVFGCGDHNWAS	590
ACO29732.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EDX65100.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEK61456.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEL16232.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	598
EDZ53094.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEL81346.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----ADELKGVQYAVFGCGDHNWAS	604
EEL87105.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----ADELKGVQYAVFGCGDHNWAS	604
EEL75761.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	531
ACK88541.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJQ05303.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEK50040.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
AAS42149.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
AAP10153.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEK83466.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	598

ACK63698 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	531
EJS57156 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJS56605 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----ADELKGVQYAVFGCGDHNWAS	590
EJS68951 .1	LP-KEGAILIVTSSYNGKPPSNAGQFVQWLEELQ-----HDELQGVHYAVFGCGDHNWAS	589
EJQ10567 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJQ13433 .1	LP-QEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJQ20399 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----TDELKGVQYAVFGCGDHNWAS	590
EJQ30236 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----TDELKGVQYAVFGCGDHNWAS	590
EJQ51278 .1	LP-KEGAILIVTSSYNGKPPSNAGQFVQWLEELQ-----HDELQGVHYAVFGCGDHNWAS	589
EEL10858 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEL05393 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	604
EEK94080 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	593
EEK99882 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	593
EEK55784 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	598
ADK05784 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
AAU17340 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----GDELKGVQYAVFGCGDHNWAS	590
EEL64394 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
AEW56259 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
AFQ11690 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EAL16831 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
ACK94296 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EDZ58760 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJV84218 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNSS	590
EJJ69212 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----SDELKGVQYAVFGCGDHNWAS	590
EJJ80339 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJV81602 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJQ95474 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEK44229 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	598
EEK88560 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJR07451 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	587
EJR16542 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
BAL18840 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EDX69960 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
ACM13462 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEK75631 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEL25491 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	531
EEL21990 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	598
EEL33825 .1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	598

EEL44933.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----GDELKGVQYAVFGCGDHNWAS	598
EEL50167.1	LP-KEGAILIVTSSYNGKPPSNAGQFVQWLEELQ-----PGELEGVHYAVFGCGDHNWAS	668
EJR22930.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJP91231.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJR37623.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJR50635.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJR64551.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGIVQYAVFGCGDHNWAS	590
EJR75620.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJR82049.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJR83659.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJR91135.1	LPQKEGAVLIITSSYNGKPPQNARKFVHWLEHAE-----TGELKGVHFSQLCGDRNWNT	587
EJR97241.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJS05852.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----SDELKGVQYAVFGCGDHNWAS	590
EDX58768.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----GDELKGVQYAVFGCGDHNWAS	590
AAU24352.1	IP-AEGAVIIVTASYNGNPPDCAKEFVNWLHDQ-----TDDLGVKYAVFGCGNRSWAS	584
ABY44122.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----SDELKGVQYAVFGCGDHNWAS	590
EDW23201.1	LP-DKGAVFIVTASYNGHPPDHAKFVDWVTQE-----EQDLTNVTFAVFGCGDRNWAS	578
ABV62358.1	LP-DKGAVLIVTASYNGHPPDHAKTFVDWVTQDK-----EKDLTNVTFAVFGCGDRNWAS	578
EIF12263.1	LP-KEGALLIITSSYNGKPPSNAAQFVQWLEEVK-----PGELEGVRYAVFGCGDHNWAA	586
EIF14027.1	LP-VKGAVVIVTASYNGAPPDNAAGFVKWMETLE-----DQELKGVSYAVFGCGDRNWAA	580
EHL75405.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJD67577.1	LP-KEGALLIITSSYNGKPPSNAGQFVQWLEEVK-----PGELEGVRYAVFGCGDHNWAA	586
EJD68347.1	LP-VKGAVVIVTASYNGAPPDNAAGFVKWMETLE-----DQELKGVSYAVFGCGDRNWAA	580
EFV73436.1	IP-AEGAVIIVTASYNGNPPDCAKEFVNWLHDQ-----TDDLGVKYAVFGCGNRSWAS	598
CBY93692.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
AFI27355.1	LP-KEGAVVIVTSSYNGKPPSNARQFVQWLQEIK-----PGELEGVHYAVFGCGDHNWAS	587
AFI29229.1	LP-EEGAVVIVTASYNGAPPDNAAGFVEWLKELE-----EGRLGKVSYAVFGCGNRSWAS	580
EIL85422.1	LP-ESGVVLIVTASYNGHPPDHAKQFVDWVTQDE-----EQDLSNVTFAVFGCGDRNWAS	578
ADV93500.1	LP-EEGAVVIVTASYNGSPPDNAAGFVEWLKELE-----EGQLKGVSYAVFGCGNRSWAS	580
ADV95715.1	LP-KEGAVVIVTSSYNGKPPSNAGQFVQWLQEIK-----PGELEGVHYAVFGCGDHNWAS	587
BAI84248.1	LP-KEGAVVIVTSSYNGKPPSNAGQFVQWLQEIK-----PGELEGVHYAVFGCGDHNWAS	587
EFG90288.1	LL-EQGAVVIVTASYNGAPPDNAAGFVEWLEGLE-----EGRNLNGVSYAVFGCGNRSWAS	580
EFG91781.1	LP-KEGAVVIVTASYNGKPPSNAGQFVQWLQEIK-----PGELEGVHYAVFGCGDHNWAS	587
AEP85668.1	LP-KEGAVVIVTSSYNGKPPSNAGQFVQWLQEIK-----PGELEGVHYAVFGCGDHNWAS	587
AEP87558.1	LP-EQGAVVIVTASYNGAPPDNAAGFVEWLEGLE-----EGQLKGVSYAVFGCGNRSWAS	580
sp O08336.1 CYPB_BACSU	LP-EEGAVVIVTASYNGAPPDNAAGFVEWLKELE-----EGQLKGVSYAVFGCGNRSWAS	580
sp O08394.1 CYPD_BACSU	LP-KEGAVVIVTSSYNGKPPSNAGQFVQWLQEIK-----PGELEGVHYAVFGCGDHNWAS	587
AEP89812.1	LP-KEGAVVIVTSSYNGKPPSNAGQFVQWLQEIK-----LGELEGVHYAVFGCGDHNWAS	587

AEP91702.1	LP-EEGAVVIVTASYNGAPPDNAAGFVEWLKELE-----EGQLKGVSYAVFGCGNRSWAS	580
EHA31094.1	LP-EEGAVVIVTASYNGSPPDNAAGFVEWLKELE-----EGQLKGVSYAVFGCGNRSWAS	582
ADH07708.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEM28177.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
AFQ14162.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEM95517.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PEELKGVQYAVFGCGDHNWAS	590
EEN02344.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
AFU13781.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----SDELKGVQYAVFGCGDHNWAS	598
EEM70897.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	598
ADY22413.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEM82895.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEM52818.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----TDELKGVQYAVFGCGDHNWAS	590
EEM59126.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----GDELKGVQYAVFGCGDHNWAS	598
EEM47193.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	531
EEM76899.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	598
EEM88909.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	598
EEM38196.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EEM21858.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	593
ABK86139.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	598
EJQ37805.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
CCF04242.1	LP-KEGALLIITSSYNGKPPSNAGQFVQWLEEVK-----PGELEGVRYAVFGCGDHNWAA	586
CCF05972.1	LP-VKGAVVIVTASYNGAPPDNAAGFVKWMETLE-----DQELKGVSYAVFGCGDRNWAA	580
ABS73124.1	LP-KEGALLIITSSYNGKPPSNAGQFVQWLEEVK-----PGELEGVRYAVFGCGDHNWAA	586
ABS74786.1	LP-VKGAVVIVTASYNGAPPDNAAGFVKWMETLE-----DQELKGVSYAVFGCGDRNWAA	580
EKE46398.1	LP-KEGALLIITSSYNGKPPSNAGQFVQWLEEVK-----PGELEGVRYAVFGCGDHNWAA	586
EKE48022.1	LP-VKGAVVIVTASYNGAPPDNAAGFVKWTETLE-----DQELKGVSYAVFGCGDRNWAA	580
CCG48683.1	LP-KEGALLIITSSYNGKPPSNAGQFVQWLEEVK-----PGELEGVRYAVFGCGDHNWAA	586
AFJ60789.1	LP-KEGALLIITSSYNGKPPSNAGQFVQWLEEVK-----PGELEGVRYAVFGCGDHNWAA	593
AFJ62808.1	LP-VKGAVVIVTASYNGAPPDNAAGFVKWMETLE-----DQELKGVSYAVFGCGDRNWAA	580
EEK66903.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	604
EJQ52935.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJS69574.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EJV63294.1	LP-KEGAVLIVTSSYNGKPPSNAGQFVQWLEELK-----PDELKGVQYAVFGCGDHNWAS	590
EKF35778.1	LP-ESGAVLIVTASYNGHPPDDAKQFVDWVTQDE-----EQDLSNVTFAVFGCGDRNWAS	578
EGP08506.1	LP-DKGGVLIFCASYNGAAPPDNATQFVKWLSDL----AKDALSGVRYAVFGCGNSDWAA	593
BAL78328.1	LP-QEGGVLIICASYNGAPPDNATQFVKWLSDL----PKDAFANVRYAVFGCGNSDWAA	593
BAC48147.1	LP-QEGGVLIICASYNGAPPDNATQFVKWLSDL----PKDAFANVRYAVFGCGNSDWAA	594
BAL12135.1	LP-HEGGVLIIICASYNGAPPDNATQFVKWLSDL----PEDAFANVRYAVFGCGNSDWAA	594

CCE00185.1	LP-KDGGVLIFCASYNGAPPDNAGKFVSLHDEL----APDAFKGLRYAVFGCGNRDWAA	597
EIG57609.1	LP-REGGVLIICASYNGAPPDNATQFVKWLGDEL----PKDAFANVRYAVFGCGNSDWAA	593
EHR02046.1	LP-QEGGVLIICASYNGAPPDNAIQFVKWLGDEL----PKDAFANVRYAVFGCGNSDWAA	593
EJN11211.1	LP-QEGGVLIICASYNGAPPNASQFVKWLGDDL----PKDAFANVRYAVFGCGNSDWAA	594
CCF15606.1	LP-KEGAVFIITSSYNGKPPSNAKDFVQWLKEAE----PGEFTGVNYTVFGCGDHNWAS	525
CCF12687.1	LP-KEGVVLIVTASYNGKPPNNARKFVQWLGGVE----ADALQGVTYAVFGCGDRNWAN	589
ABB05850.1	LG-GYPAIIVVTASYEGQPPDNAKSFVPYVEALD----EGALDGVHSVLGCGNKQWAR	591
EHP43606.1	LP-TDGLAVIVAATYNGRAPDSARRFEAMLDGDA---GGYRAANLRFALLGCGNSQWA-	611
ABF10339.1	LP-TSGLVVVVAATYNGRAPDSARKFEAMLDADDA---SGYRANGMRLALLGCGNSQWA-	586
CAJ95800.1	LP-TTGLAVIIIAATYNGRAPDSARRLEALLDGAA---SGYRAEALSVAVLGCNSQWP-	613
AEI79937.1	LP-TTGLAVIIIAATYNGRAPDSARRLEALLDGAA---SGYRAEGLSVAVLGCNSQWP-	613
AFD27790.1	LP-TQGAVVIVTSSYSGQPPANARRFMAWAQSLD----AGALAGVQYAVFGCGNRDWAA	588
ABC62112.1	LP-TDGAVALIACASYNGMPPDNAAKFVDWLEQADA---ADAPLSNVSYLVLGCGNSDWAA	588
EAQ27850.1	LP-EDGAVALIACASYNGMPPDNAAKFIDWIEKGKD---AAPDLGVSYSYMLGCGNSDWAA	589
EIT84377.1	LP-TDGAVALIVTSSYNGKPPKNAERFLNLSTLD----ETALRGVSFSVFGCGDHNWAA	576
CCG43686.1	LP-AEGAVLIVSASYNGNPPDNADAFVRWLKEAD----GEEAKGVSYAVFGCGDRNWAS	582
ABX05160.1	LP-TTGAVSIVAASYNGQPADNAQAFCQWLAVGVE----PNSLKGVRYSVFGCGNRDWQS	581
BAJ96920.1	LP-TSGGVVIVTSSYEGHTDNAKQFVSWLDTLQ----PDSLKGVKYTVFGCGDRDWLR	584
GAB96874.1	LP-TDGAVALVVSASYEGQPPDNAKAFVRWLDEQP----DGALDGVRFAVFGCGNTDWAR	639
EFH80345.1	LP-TEGVVVVVTSYNGTPPDNAAAFCAWLQEDM---AANSLKGVKYTVFGSGNHDWFA	595
EFH88481.1	LP-KEGLVVLVLTSSYNGMPPDNASAFCQWLQLSDL---APDALKGVNYTIFGCGNHEWAG	596
EAW32450.1	LP-SDGAVALLITGSYNGTPTDDAKTFMAWLEST----EQSLGHVRYGVFGVGNRDWAT	586
EIZ82104.1	LP-KECAVIVVTASYEGHPPDNARRFLAWVEGLG----PEALAGVRFTVFGCGNRQWAR	584
AEV70722.1	LP-DADAILIITSSYNGQPTDDARAFLTWTLDG----AALRGNPNVAVLGVGDRNWAD	579
EFC41452.1	IP-LDTPILIVTASYEGQPTEDAKQFVGWLEHVP----ENTLKGKLYAVFGCGHSDWVD	616
ACV78954.1	LP-VDRPLVVITASYNGQPAAGARDFVSWLSAAP----DGAAHGVRAVFGCGDHNWPT	605
ACV78964.1	VP-ANGALIVVSASYNGMPPEAEDFVAWMRDPSSL---PSDAFAGLSFTVFGCGDTDWAS	591
ACV81379.1	LP-AEGAVLVSASYNGEAPENAAAFVDKLRSRAV---PDGAYAGVRFTVFGCGDTDWAA	594
EIZ78677.1	LP-RDGAVIIVTASYEGQPPDNARRFTWIEGLG----AETLKGVRFAIFGCGNRQWAR	585
EJW15291.1	LP-KEGITFIVTASYNGQPPSNARRFKWLKEVE----PESLKGVSYCVFGCGDHNWPS	584
EJW16173.1	LP-RTGAVLIVTSSYNGKPPSNAQTFVEWLERLD----DGELEGVRYSVFGCGDRNWAS	587
EHQ58913.1	LP-AEGVIYIVTSSYNGMPPNNARGFVQWLREAA----PGELEGIRYCVFGCGDRNWAS	585
EHQ59900.1	LP-KEGVVFIVSASYNGKPPSNAREFVQWLEGAE----PGAFEGVRYAVFGCGDHNWAG	584
EHB66924.1	LP-KEGAVVIVSASYNGQPPSNAKSFVWELENAD----ESELQGVRYAVFGCGDHNWAS	585
AFH60445.1	LP-KEGAVFIVTASYNGSPPDNARAFVQWLQAE----PGSLDGVRAYAVFGCGDHNWAS	584
AEI42011.1	LP-KEGAVFIVTASYNGSPPDNARAFVQWLQAE----PGSLDGVRAYAVFGCGDHNWAS	584
ADO57681.1	LP-KEGVVLITTATYNGHPPDNADAFVEWLKEVD----EGQLAGIRYAVFGCGDRNWAS	583
EGG32133.1	LP-KEGVVVIVTASYNGQPPSNAKTFMEWLENAN----ESEIEGVRYAVFGCGDHNWAS	587

EGL17662.1	LP-KEGAVFLVTASYNGKPPSNAKDFMDWLESAE-----PSEIAGVRFAVFGCGDHNWAS	586
ACX65034.1	LP-KEGVVVIVTASYNGQPPSNAKAFMEWLENAN-----ESEIEGVRYAVFGCGDHNWAS	587
ACT11327.1	LP-QTGALIVITASYEGMPPNNARHFVPWVEGLA-----DDALSGLKFVFGCGNLQWVR	588
AEA28016.1	LP-KEGGLVVVCASYNGMPPDNAERFCAWIRDAAT---PADTAAGAAYAVFGCGNMDWAS	598
EFP68091.1	LP-QQGVLIVVAATYNGRAPDSARTLEARLDAAAA---LTRQATGLRYAVLGCGNSQWP-	599
EGY61507.1	LP-QQGVLIVVAATYNGRAPDSARTLEARLDAAAA---LTRQATGLRYAVLGCGNSQWP-	599
EIE85788.1	KL-DKQLVVICTATYNGQPPDNAENFDKFLDKKMRETDHENIFTGLSYAVFGLGNKNWR-	698
EIE92534.1	KL-DKELVVICTATYNGQPPDSAEKFDSFLDNKMRREDDHENILTGLSYAVFGLGNKNWR-	701
BAE46296.1	-----	510
BAH31604.1	-----	466
EEN84644.1	-----	466
EEN88978.1	-----	550
ABG96413.1	-----	498
BAH52971.1	-----	465
EHI44575.1	-----	500
EID73168.1	-----	465
EHK83749.1	-----	441
EJI96173.1	-----	465
ABI79384.1	-----	497
CAR47816.1	-----	498
AEK26937.1	-----	473
ABE39056.1	LP-EEGGVLIIFTASYNGAPPDNATQFVQWLSDL---PKDAFAKLRYAVFGCGNRDWTA	594
ABD08340.1	LP-EEGGVLIIFAASYNGAPPDNATQFVRLSDL---PPDAFAKLRYAVFGCGNRDWTA	591
CAM03474.1	LP-SDRPVIVVAASYNGRPTDDAVSFSRWLDEAE---PGAADGVDFAVLGVGDRNWAA	589
EJF54063.1	AQ-NKGHYVIITASYEGQPTHDAEEFVDWIVAQP----EGSLNQVQYSLFGCNSDWIH	599
AFC23737.1	AQ-NKGHYVIITASYEGQPTHDAEEFVDWIVEQP----EGSLDQVQYSLFGCNSDWIH	587
ADG98903.1	-----	471
EGI54680.1	LP-DGVPLIIATASYEGRPPDNAARFVPWLECLP----EQALAGRRTVFGCGNRQWAR	581
AEW97204.1	LP-RTSPVVVVAASYNGRPTDDAAGFVSWLEQAG----PGAADGVRYAVLGVGDRNWAA	603
CAJ88567.1	-----DAASAPRCPVPRADD-----	516
BAC68285.1	LP-TEGLLVVVASSYNGKAPDNAQRFDLLAAGLP---EGS-LSNVRFALLGAGNTQWVA	588
BAC75137.1	-----PEVSS-GPRCPVTGAGE-----	504
EDY51256.1	AP-G-QPVLIVASSYNGRPTDDACRFVWELESQA-----APADVPYAVLGIGDRNWAA	588
EFG07822.1	AP-G-QPVLIVASSYNGRPTDDACRFVWELESQA-----APADVPYAVLGIGDRNWAA	620
EHN78335.1	-----NAGSASRPCPVHRAGD-----	525
CAB66201.1	-----DTVSAPGCPVHRAGD-----	527
EGG48117.1	-----EDSSAPGRPVRGAGE-----	517
EFL20831.1	TP-GAGPVVIVAASYNGRPTDDATEFVAWLEGLE-----PGSLDGVQYAVLGVGDRNWAA	595

EFL28515.1	LP-TDRPVVITAASYNGQPTDDAAFLAWLETAE-----PGAADGVEYAVLGVGDRNWAA	590
AEY93311.1	-----GPAQPPSASRCPVHGAAD-----	542
AEY93321.1	LP-TDRPVVIAAASYNGRPTDDAVFTAFLDGTP-----DLTGVTYAVLGVGDRNWAA	590
EFD71156.1	-----DTVSAPGCPVHRAGD-----	529
CBG67789.1	SA-VDGPVVIVAASYNGRPTDDATRFMEWLDDLA-----PGSLDGLRYAVLGVGDRNWAA	591
CBG68112.1	-----PPTPSSAPSAPGRPVGTGAGE-----	513
EFL10082.1	-----	501
EFF88741.1	SG-AKGPVVIVAASYNGKPTDDAAQFMKYLEGLE-----PGSLDGLTYAVLGVGDRNWAA	592
EDY58112.1	-----EAPVPASESGCPVHRAVD-----	506
EFL36674.1	-----EPASELRCPVPGAGD-----	510
EFL36680.1	LP-TDRPVVITAASYNGRPTDDATAFAARLEETH-----DLTGVTYAVLGVGDRNWAA	640
EFE65335.1	-----RVNPAASYRRSPGPRRAGAG-----	526
EGX54696.1	-----	491
ACZ89135.1	LP-AEGAVVVVTASYNGQPPDNARDFTWLSDVP-----RGALEGVRYAVFGCGSRDWLS	581
ABD83817.1	LP-DSGGVLIFCASYNGAPPDNATKFVGWLRGEL-----PNDAAFKLRYAVFGCGNRDWAA	594
ADU39615.1	LP-ANGAVAIVCASYNGVAPDNAAEFHRWLD--K----ADDALNGVRFSVFGCGNTDWAA	591
EJL72014.1	LP-ANGAVAIVCASYNGVAPDNAAEFHRWLD--K----ADDALNGVRFSVFGCGNTDWAA	592

sp P14779.2 CPXB_PRIM2	TYQKVPFIDETLAAGAENIADRGEADASDDFEGTYEEWREHMWSVAAYFNLDIENS-	636
ADF40088.1	TYQKVPFIDETLAAGAENIADRGEADASDDFEGTYEEWREHMWSVAAYFNLDIENS-	636
ADE70259.1	TYQKVPFIDETLAAGAENIAERGEADASDDFEGTYEEWREHMWSDLAAYFNLDIENS-	636
AEN88827.1	TYQKVPFIDETLAAGAENIAERGEADASDDFEGTYEEWREHMWSVAAYFNLDIENS-	636
KFN05180.1	TYQKVPFIDETLAAGAENIADRGEADASDDFEGTYEEWREHMWSVAAYFNLDIENS-	636
ACZ37122.1	TYQKVPFIDETLAAGAENIAERGEADASDDFEGTYEEWREHMWSDLAAYFNLDIENS-	636
ADA57055.1	TYQKVPFIDETLAAGAENIADRGEADASDDFEGTYEEWREHMWSVAAYFNLDIENS-	636
ADA57058.1	TYQKVPFIDETLAAGAENIAERGEADASDDFEGTYEEWREHMWSDLAAYFNLDIENS-	636
ADA57059.1	TYQKVPFIDETLAAGAENIADRGEADASDDFEGTYEEWREHMWSVAAYFNLDIENS-	636
ADA57061.1	TYQKVPFIDETLAAGAENIAERGEADASDDFEGTYEEWREHMWSDLAAYFNLDIENS-	636
ADA57062.1	TYQKVPFIDETLAAGAENIADRGEADASDDFEGTYEEWREHMWSVAAYFNLDIENS-	636
ADA57068.1	TYQKVPFIDETFAAKGAENIAERGEADASDDFEGTYEEWREHMWSDLAAYFNLDIENS-	636
AAT62301.1	TYQRIPRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
AAM54108.1	TYQRVPTLIDEAMAAAGARRLTERGATDARADFFGDWERWYEPWLPLSAECGVGEI-	640
EFQ83738.1	-----	505
EFL88452.1	TFQATPRIIDEHMKRAGATAYVETGEGDAKEDLDAEFDFTWFGPVWQHTGKALGLDV----	644
BAF89518.1	TFQKFPKTIASGLAALGGTALLDEGTADAAGDYEEAVEGWTAAALWPALAAFGGAAGAAV	740
CBI43648.1	TYQRIPRILIDKVLEEKGAERLTSIGEGDNADDFEYSQEAWEDSFWKDIMKAFHIEAA---	637
AEB22839.1	TYQAVPRILIDEKLAEKGAERFSSRGEGDVSGDFEGKLDEWKSMWKDAMKAFGLKLNENA	647
EDT22025.1	TYQRIPRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKQRMWSDAMKVFGLKLNENA	650
AFH84458.1	TYQRIPRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKQRMWSDAMKVFGLKLNENA	658
ADP31197.1	TYQDVPRIIDEQLAQKGAAFRSARGEVDGDFEGQLDWQKQTMWSDAMNAFGLKLNENA	647
ACP19384.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
ADL27534.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
ACO29732.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQRMWSDAMKAFGLELNKNM	650
EDX65100.1	TYQRIPRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKQRMWSDAMKAFGLELNKNM	650
EEK61456.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
EEL16232.1	TYQRIPRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKQRMWSDAMKAFGLELNKNM	658
EDZ53094.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
EEL81346.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELTKT-	663
EEL87105.1	TYQRIPRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNI	664
EEL75761.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQNMWSDAMKAFGLELNKNM	591
ACK88541.1	TYQRIPRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKQRMWSDAMKAFGLELNKNM	650
EJQ05303.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
EEK50040.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
AAS42149.1	TYQRIPRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKESMWSDAMKAFGLELNKNM	650
AAP10153.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQNMWSDAMKAFGLELNKNM	650
EEK83466.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNM	658

ACK63698 .1	TYQRI PRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQSMWSDAMKAFGLELNKNM	591
EJS57156 .1	TYQRI PRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQNMWSDAMKAFGLELNKNM	650
EJS56605 .1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFFEEQLEQWKQSMWSDAMKAFGLELNKNI	650
EJS68951 .1	TYQNV PRYIDEQMAQQGATRFSTRGEGDASGDFFEEQLNQWKQSMWSDAMKAFGLEFENV	649
EJQ10567 .1	TYQRI PRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
EJQ13433 .1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
EJQ20399 .1	TYQRI PRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
EJQ30236 .1	TYQRI PRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
EJQ51278 .1	TYQNV PRYIDEQMAQQGATRFSTRGEGDASGDFFEEQLNQWKQSMWSDAMKAFGLEFENV	649
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EEK99882 .1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFFEEQLEQWKQSMWSDAMKSFGLELNKNM	653
EEK55784 .1	TYQRI PRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQRMWSDAMKAFGLELNKNM	658
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AFQ11690 .1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFFEEQLEQWKESMWSDAMKAFGLELNKNM	650
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ACK94296 .1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFFEEQLEQWKQGMWSDAMKAFGLEFNKNM	650
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EJV84218 .1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFFEEQLEQWKQRMWSDAMRAFGLELNKNI	650
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EJJ80339 .1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFFEEQLEQWKQSMWSDAMKAFGLELNKNV	650
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EEL21990 .1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFFEEQLEQWKQSMWSDAMRAFGLELNKNM	658
EEL33825 .1	TYQRI PRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQSMWSDAMRAFGLELNKNM	658

EEL44933.1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKQRMWSDAMKAFGLELNKNM	658
EEL50167.1	TYQNVPRYIDEQMAQQGATRFSTRGEGDASGDFEEQLNQWKQSMWSDAMKAFGLELNENV	728
EJR22930.1	TYQRI PRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
EJP91231.1	TYQRI PRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQGMWSDAMKAFGLEFNKNM	650
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EJR64551.1	TYQRI PRYIDEQMAQKGATRFSKRGEADASGDFEEQLEQWKQSMWSDAMRAFGLELNKNM	650
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EJR91135.1	TYQEVPFRIDKLLVQKGATRFSSQRGEADVSGDFDKQLEEWKFQMWKDARKIFDLRLNENN	647
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EDX58768.1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKQRMWSDAMKAFGLELNKNM	650
AAU24352.1	TYQRI PRLIDSVEKKGAQRLHLGEGDAGDDFEGQFESWKYDLWPLLRTESLAEPN	644
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EJD68347.1	TYQRI PRlidkvleekgakrltsigegdnaddfeysqeawedsfwkdimkafhieaa---	637
EFV73436.1	TYQRI PRlidsvlekkgaqrlhlgegdagddfegqfeswkylwpllrtefslaepn	658
CBY93692.1	TYQRI PRYIDEQMAQKGATRFSTRGEADASGDFEEQLEQWKQSMWSDAMKAFGLELNKNM	650
AFI27355.1	TYQDVPRFIDEQLAEKGATRFSARGEVDGDFEGQLDEWKKSWMADAIAKAFGLELNENA	647
AFI29229.1	TYQRI PRlidealerkgakrtltaigegdaaddfeshreswenrfwketcldafinei---	637
EIL85422.1	TYQRI PRlidealerkgakrvtdigegdaggdmdedketfqktvdelakenftnltlq---	635
ADV93500.1	TYQRI PRlidekmmkakgasrlteigegdaaddfeshreswenrfwketcldafinei---	637
ADV95715.1	TYQYVPRFIDEQLAEKGATRFSARGEVDGDFEGQLDEWKKSWMADAIAKAFGLELNENA	647
BAI84248.1	TYQYVPRFIDEQLAEKGATRFSGRGEVDGDFEGQLDEWKKSWMADAIAKAFGLELNENA	647
EFG90288.1	TYQRI PRlidekmmkakgasrltaigegdaaddfeshreswenrfwketcldafinei---	637
EFG91781.1	TYQYVPRFIDEQLAEKGATRFSERGEVDGDFEGQLDEWKKSWMADAIAKAFGLELNENA	647
AEP85668.1	TYQYVPRFIDEQLAEKGATRFSARGEVDGDFEGQLDEWKKSWMADAIAKAFGLELNENA	647
AEP87558.1	TYQRI PRlidekmmkakgasrltaigegdaaddfeshreswenrfwketcldafinei---	637
sp O08336.1 CYPB_BACSU	TYQYVPRFIDEQLAEKGATRFSARGEVDGDFEGQLDEWKKSWMADAIAKAFGLELNENA	647
sp O08394.1 CYPD_BACSU	TYQYVPRFIDEQLAEKGATRFSARGEVDGDFEGQLDEWKKSWMADAIAKAFGLELNENA	647
AEP89812.1	TYQDVPRFIDEQLAEKGATRFSARGEVDGDFEGQLDEWKKSWMADAIAKAFGLELNENA	647

AEP91702.1	TYQRIPRIPLIDDEMMKAKGASRLTAIGEGDAADDFESHRESWENRFWKETMDAFDINEI---	637
EHA31094.1	TYQRIPRIPLIDDEMMKAKGASRLTEIGEGDAADDFESHRESWENRFWKETMDAFDINEI---	639
ADH07708.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQNMWSDAMKAFLGLENKNM	650
EEM28177.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQNMWSDAMKAFLGLENKNI	650
AFQ14162.1	TYQRIPRYIDEQMAQKGATRFSKRGEADAGGDFFEEQLEQWKQGMWSDAMKAFLGLENKNM	650
EEM95517.1	TYQRIPRYIDEQMAQKGAKRFSKRGEGDASGDFFEEQLEQWKQSMWSDAMTFGLELNKNM	650
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EEM52818.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQSMWSDAMKAFLGLENKNM	650
EEM59126.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQSMWSDAMKAFLGLENKNM	658
EEM47193.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQNMWSDAMKAFLGLENKNM	591
EEM76899.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQRMWSDAMKAFLGLENKNM	658
EEM88909.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQSMWSDAMKAFLGLENKNM	658
EEM38196.1	TYQRIPRYIDEQMAQKGATRFSKRGEADAGGDFFEEQLEQWKQGMWSDAMKAFLGLENKNM	650
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ABK86139.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQRMWSDAMKAFLGLENKNM	658
EJQ37805.1	TYQRIPRYIDEQMAQKGATRFSKRGEADASGDFFEEQLEQWKQSMWSDAMRAFGLENKNM	650
CCF04242.1	TYQAVPRIPLIDEKLAEKGAERFSARGEVDVSGDFEGKLDEWKSMWTDAMKAFLGLKLNENA	646
CCF05972.1	TYQRIPRIPLIDKVLEEKGAKRLTSIGEGDNADDFEYSQEAWEDSFWKDIMKAFHIEAA---	637
ABS73124.1	TYQAVPRIPLIDEKLAEKGAERFSSRGEGDVSGDFEGKLDEWKSMWTDAMKAFLGLKLNENA	646
ABS74786.1	TYQRIPRIPLIDKVLEEKGAKRLTSIGEGDNADDFEYSQEAWEDSFWKDIMKAFHIEAA---	637
EKE46398.1	TYQAVPRIPLIDEKLAEKGAERFSARGEVDVSGDFEGKLDEWKSMWTDAMKAFLGLKLNENA	646
EKE48022.1	TYQRIPRIPLIDKVLEEKGAKRLTSIGEGDNADDFEYSQEAWEDSFWKDIMKAFHIEAA---	637
CCG48683.1	TYQAVPRIPLIDEKLAEKGAERFSSRGEGDVSGDFEGKLDEWKSMWTDAMKAFLGLKLNENA	646
AFJ60789.1	TYQAVPRIPLIDEKLAEKGAERFSSRGEGDVSGDFEGKLDEWKSMWTDAMKAFLGLKLNENA	653
AFJ62808.1	TYQRIPRIPLIDKVLEEKGAKRLTSIGEGDNADDFEYSQEAWEDSFWKDIMKAFHIEAA---	637
EEK66903.1	TYQRIPRIPLIDKVLEEKGAKRLTDIGEGDAGGDMDEDKEIFQKTVFEDLAKEFDLTLQ---	635
EJQ52935.1	TYQSPVPRMLDEQLAAHGAKSIVTRGEGDARDDLDGQFERWFAKLGAASMKEFGLDAGSGA	653
EJS69574.1	TYQSPVPRFIDEQLSKHGGRAVYPRGEVDARSDDLQFQKWFPAQQVATKEFGIDW----	649
EJV63294.1	TYQSPVPRFIDEQLSKHGGRAVYPRGEVDARSDDLQFQKWFPAQQVATKEFGIDW----	650
EKF35778.1	TYQSPVPRFIDEQLSKHGGRAVYPRGEVDARSDDLQFQKWFPAQQVATKEFGIDW----	650
EGP08506.1	TYQSPVPRFIDEQLSKHGGRAVYPRGEVDARSDDLQFQKWFPAQQVATKEFGIDW----	650
BAL78328.1	TYQSPVPRFIDEQLSKHGGRAVYPRGEVDARSDDLQFQKWFPAQQVATKEFGIDW----	650
BAC48147.1	TYQSPVPRFIDEQLSKHGGRAVYPRGEVDARSDDLQFQKWFPAQQVATKEFGIDW----	650
BAL12135.1	TYQSPVPRFIDEQLSKHGGRAVYPRGEVDARSDDLQFQKWFPAQQVATKEFGIDW----	650

CCE00185.1	TYQSVPRFIDDALAAHGAKRVHERGEGDARSLDQFETWFAALGAAVKEFGLDS---	653
EIG57609.1	TYQSVPRFIDEQLSAH GARAVY PRGE GDARS LDQF QKWF PAAA QVAT KEG FIDW---	649
EHR02046.1	TYQSVPRFIDEQLSAH GARAVY PRGE GDARS LDQF QKWF PAAA QVAT KEG FIDW---	649
EJN11211.1	TYQSVPRFIDEQLS RHSARAI Y PRGE GDARS LDQF QKWF PAAA QVAT KEG FIDW---	650
CCF15606.1	TYQQVPHLIDKQLEAKGATRLMKQGEGDASGDFEKQLEDWRHQLWPGVMNALGLKINNR	585
CCF12687.1	TYQDVPRFIDEQLTLKGAKRLSLRGEADTSGDFEKQLEDWQKRMWLDMETFILQEN---	646
ABB05850.1	TYQAIPKRVDEALEKAGATRVHFRGELDSGGDFGEFDRWYTEMWNRFAISAGKEIPV--	649
EHP43606.1	TYQAFPKRLHGFFSAAGAVPLLARGEADGNGDFDHAAESWLAALWQSLQALRVEQGAA--	669
ABF10339.1	TYQAFP RRVFDFFITAGAVPLLPRGEADGNGDFDQAAERWLAQWLQALQADG-----	638
CAJ95800.1	TYQAFP RRVYEFFTNA GASPLLPRGEADGNGDFDQAAERWLWQALQAGD---GVG--	668
AEI79937.1	TYQAFP RRVYEFFTNA GASPLLPRGEADGNGDFDQAAERWLWQALQAGD---SVG--	668
AFD27790.1	TYQAVPKQLDALLE DAGARRFCGRGEADARGDFFGGFADWYTTFWIEFGTAFGPLQTP--	646
ABC62112.1	TFQV VPRKIDALMEQHQGAERLVPAAEELDARGDL DTQFHDWL DGLIPQLGDAFDIDLES--	646
EAQ27850.1	TFQAVP RLIDARMEELGAKRIVPTTELDARS DVTQFH TWL DALMPQLGEHF DLDLSG--	647
EIT84377.1	TYQAVP RQLEQ LLLAKGATVFSMR GEGDVAHDVEQAWQHWKQHMWKD ACETFDLKVEETD	636
CCG43686.1	TYQRVPTLIDEELQ ALGAERI LAREGG DASED FEGD LEKWEA ALWP ALADTFN LELEEAD	642
ABX05160.1	TYQAVPTQIDQH LQ AAGAERL LQ RGAADAR SDFFGD FERWYAP FWQ THN QTFAIASAE--	639
BAJ96920.1	TYQAIPK RIDEK LAESGATRIKDRGEADAKGDF FGFDQWNSTLWSTLSEKLGTKTV A--	642
GAB96874.1	TYQAVP THLDEALARAGATRIVDRGEANARGDFFGDFDAWHEGLWPAIGEALGI DATPA-	698
EFH80345.1	TFQAI PRLVDSRLEQYGAQRIYPRGE GDAADD FDQF QAWYQ LLLWSELGQ TLNLDLGA--	653
EFH88481.1	TYQAIPKLLD SALEQAGARRVYQRGEGD AAGDFDGQFRSWYNGLWNSVAQALSLTPQE--	654
EAW32450.1	TYQRVPRLIEQRLET LGAE CVVARGEADARGDFFGDIDS YAKTVWPELAVSLGLTV---	642
EIZ82104.1	TYQAIPKRTDAALAKAGAQRVRERGETDAGGDFFGFD AWYAGLWADLGRALGQTGRRG-	643
AEV70722.1	TYQAVPKRIDERLTEL GAMPLLPRAEADTSGDL GTVEEFEVALWTAMAQHFGDPDA API	639
EFC41452.1	TYQRIPTFIDNKLSEAGGERIAQRGIGNAAKDLFCEFDQWRKTLWSSFDPHTS-----	669
ACV78954.1	TYQAVPALIDRELVRIGGERLIDRGE GDSSG DLDG AFTRWSRS L WQALDAGR PGPP--	661
ACV78964.1	TYQAVPTL LDTELERHGATRVHPRGAGDAHADFDDQYRSWHAGLWADLATALGLPATA--	649
ACV81379.1	TYQAVPILLDAE LERL GGTRI HPRGAGDAQADFDGQYRAWHADLWADLAAGLGLSERQ--	652
EIZ78677.1	TYQAIPK RIDAAMEGAGATRIKPRGETDAAGDFFGAFDAWYGNLWTDLGTALGKQA---	641
EJW15291.1	TYQSIP IFIDEQLA AKGAN RLLPV GHGD ASGEFETEVEEW RDKLWPA VMRS LDKFDG ID	644
EJW16173.1	TYQDVPRFVDEQM QKKGAERLMMRGE GDASGDFELNVESWRTKLWPDMMNVGLQPTKQS	647
EHQ58913.1	TFQSVPTWIDGQMAAKGAKR LVLPGGGDVG GDFETEVENWRDQ LWP AVM S LGLSFQAME	645
EHQ59900.1	TYQQVPRFIDEALADKGATRIVARGEADASGDFEKQLEEWGDRLWQDVNLALGLKSGGQP	644
EHB66924.1	TYQRI PRLIDEQLA IKGAQ RLLPRGESDASGDFEREVD AWTAE LPDLMQAL GLPVI AVN	645
AFH60445.1	TYQQVPRKIDALLADKGAKR LAGLGE GDVSDDFEEQ QLESWRGGLWPQVMEAFGLS LNENA	644
AEI42011.1	TYQQVPRKIDALLADKGAKR LAGLGE GDVSDDFEEQ QLESWRGGLWPQVMEAFGLS LNENA	644
ADO57681.1	TYQRI PRM IDELMTAKGAKR LYDRGE GDASGDFEKDWEVWNHGLWP ELLNAFGIEHSDTE	643
EGG32133.1	TYQRI PRFIDEQLA LKG AQR LIQ RGE SDASGDFEREVDEWTEHLWPDLMQAL GLPVT AVH	647

EGL17662.1	TYQDVPRRADELLASKGGQRILAGRGEGDASGDFEKQLEDWREALRPDVMKALGLELAEIS	646
ACX65034.1	TYQRIPRILIDEQLSLKGQRLIHRGESDASGDFEREVDEWTEHLWPDLMQSLGLPVTAVH	647
ACT11327.1	TYQAIPKRVDLALEHAGGERIHERGVADSGGDFFGNFDDWYTKLWPALTTAFGRQGAV--	646
AEA28016.1	TYQAIPTMLDEQLERHGGRRVVPRGEGDARSDFDGQYEAWYATLWPAMTEALGLETAA--	656
EFP68091.1	AFQAFPKRVEAMLAAAGAQAIIVPRGEADGNAGFDAAVEAWTRSLWSALGARQ-----	651
EGY61507.1	AFQAFPKRVEAMILAAAGAQAIIVPRGEADGNAGFDAAVEAWTRSLWSALGARQ-----	651
EIE85788.1	TYQRFPNキンQCLSEFGAERFFTSGEGDSDKMDATFNDWCARFWSHLLGTYGIAASESN	758
EIE92534.1	TYQHFPIKVSQCLSELGAERLFASGEGDNDKDMDAAFNDWCARFWSHLLEIHGIAACESK	761
BAE46296.1	-----	510
BAH31604.1	-----	466
EEN84644.1	-----	466
EEN88978.1	-----	550
ABG96413.1	-----	498
BAH52971.1	-----	465
EHI44575.1	-----	500
EID73168.1	-----	465
EHK83749.1	-----	441
EJI96173.1	-----	465
ABI79384.1	-----	497
CAR47816.1	-----	498
AEK26937.1	-----	473
ABE39056.1	TYQAIPRLVDERLAAHGRNIFLRGEGDARDLEGQFESWFAKLGPLAVKEFGIDA--	650
ABD08340.1	TYQAIPRLIDERLAAHGRNI FVRGEVDARDLEGQFEAWFATLGPLAVKEFGIDA---	647
CAM03474.1	TYQHVPTRIDARLAELEGGTRILERGEADASGDLAGAVRRFSAALETALLERSGDPDAVA	649
EJF54063.1	SYQAVPRKIDAQLQRLGAQPFLAPAEGNAKQNFFVSFNQWHDELWPALAKSLGQDAVS--	657
AFC23737.1	SYQAVPRKIDAQLKRLGAQPFLAPGEAEGNAKQNFFASFNQWHDELWPALAKSLGQDAIS--	645
ADG98903.1	-----	471
EGI54680.1	TWQAIPKRVDAAALAKAGAQAFHPRGEFDAAGDLGFAGFESWYADLWSSLAASEGREP--	637
AEW97204.1	TYQKVPTLIDERLAEKGATRLLERAADAAGDLAGTVRGFGEALRRALLAEYGDPDSVGA	663
CAJ88567.1	-----	516
BAC68285.1	TYQGFPKRIEAGLLAAGATRVIERGIADAAGDFDGMATRWMDTLWTTLAEYY---AAD--	643
BAC75137.1	-----	504
EDY51256.1	TYQRVPTLIDEQLTAAGSTPLVERAAVDVSADVATEVERWSGRVGALLDRYGVVDPAE	648
EFG07822.1	TYQRVPTLIDEQLTAAGSTPLVERAAVDVSADVATEVERWSGRVGALLDRYGVVDPAE	680
EHN78335.1	-----	525
CAB66201.1	-----	527
EGG48117.1	-----	517
EFL20831.1	TYQRIPTLIDERLTAAGAVRLLERGAADASGDFAGTVDRWTGDLWTVLFDRYGAEGEAAA	655

EFL28515 .1	TYQRVPTLIDERLAALGATRLIDRAAADASGDLSGTVRDFTERLRTALLERHGDPATVGA	650
AEY93311 .1	-----	542
AEY93321 .1	TYQQVPTRIDARLAEGLGATRLTERAAADASGDLTGAVREFTARVRSALLSAYGDPDAGHD	650
EFD71156 .1	-----	529
CBG67789 .1	TYQRVPALIDERLSAAGATALLERGAADASGDFAGTVDRWTGELWTTLLDRHGTAQDGVA	651
CBG68112 .1	-----	513
EFL10082 .1	-----	501
EFF88741 .1	TYQRIPTLIDERLTAAGATPLLERCAADASGDFASVVDRWTEELWNALLEQHGEAEVGVA	652
EDY58112 .1	-----	506
EFL36674 .1	-----	510
EFL36680 .1	TYQHVPTRIDERLAESGATRLLDRAAADASGDLTGTVREFTAALRTALLQQYGDPA	700
EFE65335 .1	-----	526
EGX54696 .1	-----	491
ACZ89135 .1	TYQAVPTMIDERLQGAGAQRVVARGEADAGGDFFERWYAPFWESLGDSLGVKEGG--	639
ABD83817 .1	TYQSVPRLIDETLSAHGGKRVFPRGEGDARSIDLQFESWFAALGAAA	650
ADU39615 .1	KFGLES---	648
EJL72014 .1	TYQAVP RIDERLEALGATRVHPRGEGDAREDMGAFQDWSDALWPELVKA	649
	KAFGIKAG---	
	TYQAVP RIDERLEALGATRVHPRGEGDAREDMGAFQDWSDALWPELVKA	
	KAFDIKTG---	

sp P14779.2 CPXB_PRIM2	-----EDNKS-----	TLSLQFVDSA-----	ADMPLAKMHGAFS	664
ADF40088.1	-----EDNKS-----	TLSLQFVDSA-----	ADMPLAKMHGAFS	664
ADE70259.1	-----EENAS-----	TLSLQFVDSA-----	SDMPLAKMHRAFS	664
AEN88827.1	-----EDNKS-----	TLSLQFVDSA-----	ADMPLAKMHGAFS	664
KFN05180.1	-----EDNKS-----	TLSLQFVDSA-----	ADMPLAKMHGAFS	664
ACZ37122.1	-----EENAS-----	TLSLQFVDSA-----	ADMPLAKMHRAFS	664
ADA57055.1	-----EDNKS-----	TLSLQFVDSA-----	ADMPLAKMHGAFS	664
ADA57058.1	-----EENAS-----	TLSLQFVDSA-----	ADMPLAKMHRAFS	664
ADA57059.1	-----EDNKS-----	TLSLQFVDSA-----	ADMPLAKMHGAFS	664
ADA57061.1	-----EENAS-----	TLSLQFVDSA-----	ADMPLAKMHRAFS	664
ADA57062.1	-----EDNKS-----	TLSLQFVDSA-----	ADMPLAKMHGAFS	664
ADA57068.1	-----EENAS-----	TLSLQFVDSA-----	ADMPLAKMHRAFS	664
AAT62301.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
AAM54108.1	-GPR-----	FR-----VVE-----	SDAADGLGDLAS	660
EFQ83738.1	-----	-----	-----	505
EFL88452.1	DF--EETLDDAP-----	LYEVTFKLD-A-----	SQNPLVEQMGAKP	677
BAF89518.1	IGSAEAA-AEAP-----	AVKVEVVNFAGAATGAAPRTGTRLDQGAQL	-----	781
CBI43648.1	-P---KQTNK-----	QLSIEYVSEA-----	AETPIAKTYKAFE	667
AEB22839.1	-----EKERS-----	TLGLQFVSGL-----	GGSPLAQTYEAVY	675
EDT22025.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
AFH84458.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	686
ADP31197.1	-----EKERS-----	TLSLEFVRGL-----	GGSPLARSYEAVH	675
ACP19384.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
ADL27534.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
ACO29732.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
EDX65100.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
EEK61456.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
EEL16232.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	686
EDZ53094.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
EEL81346.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
EEL87105.1	-----	-----	-----	663
EEL75761.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	692
ACK88541.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	619
EJQ05303.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
EEK50040.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
AAS42149.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
AAP10153.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	678
EEK83466.1	-----EKERS-----	TLSLQFVSRL-----	GGSPLARTYEAVY	686

ACK63698.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 619
EJS57156.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJS56605.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJS68951.1	-----EKERS-----TLSLQFVSGL-----GGSPLARSYEAMN 677
EJQ10567.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJQ13433.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJQ20399.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJQ30236.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJQ51278.1	-----EKERS-----TLSLQFVSGL-----GGSPLARSYEAMN 677
EEL10858.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EEL05393.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 692
EEK94080.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 681
EEK99882.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 681
EEK55784.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 686
ADK05784.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
AAU17340.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EEL64394.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
AEW56259.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
AFQ11690.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EAL16831.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
ACK94296.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EDZ58760.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJV84218.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJJ69212.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJJ80339.1	-----EKERS-----TLSLQFVSCL-----GGSPLARTYEAVY 678
EJV81602.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJQ95474.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EEK44229.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 686
EEK88560.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EJR07451.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 675
EJR16542.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
BAL18840.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EDX69960.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
ACM13462.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EEK75631.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 678
EEL25491.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 619
EEL21990.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 686
EEL33825.1	-----EKERS-----TLSLQFVSR-----GGSPLARTYEAVY 686

EEL44933.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	686
EEL50167.1	-EKERS-----TLSLQFVSGL-----GGSPLARSYEAVN	756
EJR22930.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJP91231.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJR37623.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJR50635.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJR64551.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJR75620.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJR82049.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJR83659.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJR91135.1	-EKEQN-----TLNIQFVNWL-----VETPLAKSSEVLH	675
EJR97241.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJS05852.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EDX58768.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
AAU24352.1	-Q---TETDRQ----ALSVEFVNAP----AASPLAKAYQVFT	674
ABY44122.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EDW23201.1	-E---KGKENP----KLSVAYTNEL----VERPVAKTYGAFS	665
ABV62358.1	-E---KGKETP----KLSVAYTNEL----VERPVAKTYGAFS	665
EIF12263.1	-EKERS-----ALGLQFVSGL-----GGSPLAQTYEAVY	674
EIF14027.1	-P---KQTNKS----QLSIEYVSEA----AETPIAKTYKAFE	667
EHL75405.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJD67577.1	-EKERS-----ALGLQFVSGL-----GGSPLAQTYEAVY	674
EJD68347.1	-P---KQTNKS----QLSIEYVSEA----AETPIAKTYKAFE	667
EFV73436.1	-Q---TETDRQ----ALSVEFVNAP----AASPLAKAYQVFT	688
CBY93692.1	-EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
AFI27355.1	-DKERS-----TLSLQFVRGL----GESPLARSYEAAH	675
AFI29229.1	-A---QKEDRP----SLSITFLSEA----TETPVAKAYGAFE	667
EIL85422.1	-E---KRQEKP----NLSIAYTNEL----VERPVAKTYGAFS	665
ADV93500.1	-A---QKEDRP----SLSIAFLSEA----TETPVAKAYGAFE	667
ADV95715.1	-DKERS-----TLSLQFVRGL----GESPLARSYEASH	675
BAI84248.1	-DKERS-----TLSLQFVRGL----GESPLARSYEASH	675
EFG90288.1	-S---QKEDRP----SLSIAFLSEA----TETPLAKAYGAFE	667
EFG91781.1	-DKERS-----TLSLQFVRGL----GESPLARSYEAAH	675
AEP85668.1	-DKERS-----TLSLQFVRGL----GESPLARSYEASH	675
AEP87558.1	-A---QKEDRP----SLSITFLSEA----TETPLAKAYGAFE	667
sp O08336.1 CYPB_BACSU	-A---QKEDRP----SLSITFLSEA----TETPVAKAYGAFE	667
sp O08394.1 CYPD_BACSU	-DKERS-----TLSLQFVRGL----GESPLARSYEASH	675
AEP89812.1	-DKERS-----TLSLQFVRGL----GESPLARSYEASH	675

AEP91702.1	-A----QKEDRP-----SLSITFLSEA-----TETPVAKAYGAFE	667
EHA31094.1	-A----QKEDRP-----SLSIAFLSEA-----TETPVAKAYGAFE	669
ADH07708.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EEM28177.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
AFQ14162.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EEM95517.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EEN02344.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
AFU13781.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	686
EEM70897.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	686
ADY22413.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EEM82895.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EEM52818.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EEM59126.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	686
EEM47193.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	619
EEM76899.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	686
EEM88909.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	686
EEM38196.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EEM21858.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	681
ABK86139.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	686
EJQ37805.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
CCF04242.1	-----EKERS-----ALGLQFVSGL-----GGSPLAQTYEAVY	674
CCF05972.1	-P---KQANKS-----QLSIEYVSEA-----AETPIAKTYKAFE	667
ABS73124.1	-----EKERS-----ALGLQFVSGL-----GGSPLAQTYEAVY	674
ABS74786.1	-P---KQTNKS-----QLSIEYVSEA-----AETPIAKTYKAFE	667
EKE46398.1	-----EKERS-----ALGLQFVSGL-----GGSPLAQTYEAVY	674
EKE48022.1	-P---KQANKS-----QLSIEYVSEA-----AETPIAKTYKAFE	667
CCG48683.1	-----EKERS-----SLGLQFVSGL-----GGSPLAQTYEAVY	674
AFJ60789.1	-----EKERS-----SLGLQFVSGL-----GGSPLAQTYEAVY	681
AFJ62808.1	-P---KQTNKS-----QLSIEYVSEA-----AETPIAKTYKAFE	667
EJK66903.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	692
EJQ52935.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJS69574.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EJV63294.1	-----EKERS-----TLSLQFVSRL-----GGSPLARTYEAVY	678
EKF35778.1	-E---KSQESP-----DLSVVTTEL-----VERPVAKTYGAFS	665
EGP08506.1	SF--ARSADDAP-----LYQLEPVAP-T-----AVNTIVVQGGVVQ	686
BAL78328.1	NF--TRTAEDDP-----LYAIEPVAV-T-----AVNTIVAQGGAVA	682
BAC48147.1	NF--TRTAEDDP-----LYAIEPVAV-T-----AVNTIVAQGGAVA	683
BAL12135.1	NF--TRTAEDDP-----LYAIEPVAV-T-----AVNTIVAQGGAVA	683

CCE00185.1	GF--SRSAAEDAP-----	LYSVEPLAP-T-----	AAGAVAALGGAAP	686
EIG57609.1	NF--TRTAEDDP-----	LYAIEPVAV-T-----	AVNTIVAQGGAVA	682
EHR02046.1	NF--TRTAEDDP-----	LYAIEPVAV-T-----	AVNTIVAQGGAVA	682
EJN11211.1	NF--TRTAEDDP-----	LYAIEPVAV-T-----		670
CCF15606.1	-----ERERS-----	TLSVQYVNNGI-----	AGVPLAESYDALR	613
CCF12687.1	-L---EEKHHG-----	TLTIQFMNDL-----	SDVPLALKNAVY	676
ABB05850.1	----IQHDDV-----	ALKVSFAGSS-----	REKVLNLGDMAH	677
EHP43606.1	----PDAAGAS-----	QIAVRLRDI-A-----	TIRASTLPPSTQA	699
ABF10339.1	----AGTGGL-----	GVDVQRSM-A-----	AIRAETLPAGTQA	667
CAJ95800.1	----GPAHGTP-----	PVRVQVKDV-A-----	EIRASTLPANTEA	698
AEI79937.1	----GPAHGTP-----	PVRVQMRDV-A-----	EIRASTLPANTQG	698
AFD27790.1	----APGPAT-----	DAGAQIQRGA-----	RPRLLRQGDLQT	674
ABC62112.1	----GFDAVFEP-----	LYTVEITDS-I-----	TGNTVADRVGARE	677
EAQ27850.1	----EAAGIAEP-----	LYKVEVTQS-V-----	TANTVASRVGAHA	678
EIT84377.1	----VPSVA-----	ALEVEWVTHE-----	KTLPLLDHYGAFK	664
CCG43686.1	----DPSS-----	HVSMEFVSGV-----	TQTPLARTHHAFT	669
ABX05160.1	----INSKP-----	LYKVELLPSS-----	SDQLAQQTGFMF	666
BAJ96920.1	----TTAEP-----	MFEVEIVKET-----	RSVFLRQTDLQP	669
GAB96874.1	----ADAP-----	QLSVDIIGPG-----	REQLLRASDLQL	724
EFH80345.1	----SDAATGP-----	RYEVEVLTETE-----	APNPFFVASFGAHL	684
EFH88481.1	----EVKRQYRP-----	RYDIEIIRR-P-----	HPYPFINSFGAQP	685
EAW32450.1	----AAPVDRGD-----	RFTV DLLTDND-----	RDTVFLQHSLTP	674
EIZ82104.1	----GDREAAEPAGT-----	GLDVEILRSG-----	RETALHLDLNP	676
AEV70722.1	SD----TDEP-----	LYDLRPIEG-P-----	VTTALDERFMVVP	668
EFC41452.1	----HELP-----	PVETTI IKGH-----	RETILHFQSLEP	695
ACV78954.1	----RETRNPVGRYVASEVGRASADGPADAFGMGEAWRSV-----	TELTRRPPDLG-	709	
ACV78964.1	----AEPAAGP-----	RLSITIVNR-Q-----	LANPVVLSYEAQA	680
ACV81379.1	----AQVTAAGP-----	RLTIATVNR-Q-----	LTPVVVSYDATP	683
EIZ78677.1	----AATVAP-----	GLDVEIVRSG-----	RLEALRLPDLGQ	669
EJW15291.1	GI----EKSTAS-----	SLTVEVVNIS-----	VESPFADAYNVHC	675
EJW16173.1	----EGARS-----	TLTVEFKDY-----	AGSRLAQS YEAVH	675
EHQ58913.1	----HQAGP-----	DLSVDVVVRGM-----	IEAPLAESYDAHY	673
EHQ59900.1	----HRERT-----	TLSIQFVSGL-----	IGTPLAETYDALL	672
EHB66924.1	----ETKRS-----	SLSVQFVPGA-----	AAVPLANTYHAAC	673
AFH60445.1	----GQERS-----	SLTVQFVSGL-----	IGTPLAESYDALQ	672
AEI42011.1	----GQERS-----	SLTVQFVSGL-----	IGTPLAESYDALQ	672
ADO57681.1	----PQDTS-----	SLSIEFVSDV-----	LSAPLAANYEAAT	671
EGG32133.1	----GLKRS-----	ALSVRFVQGA-----	AAVPLAETYRAVT	675

EGL17662.1	-----EKEKS-----	SLSLQFVSGF-----	AGTPLAESYDAVH	674
ACX65034.1	-----GQKRS-----	ALSVQFVQGT-----	AAVPLTETYRAVT	675
ACT11327.1	-----AEDAT-----	ELELEFVHTD-----	RVSTLQIPDMGR	673
AEA28016.1	-----VGTAAGP-----	RLTVMTNR-Q-----	TTNPVVVSYRARP	687
EFP68091.1	-----AQADGP-----	SVHVDYVAP-D-----	AVRAATLPSAARA	680
EGY61507.1	-----AQADGP-----	SVHVDYVAP-D-----	AVRAATLPSAARA	680
EIE85788.1	SVVPSAAAAKES-----	IVKVKFIQPSN-----	KEAWEKAANDFYGSPN	797
EIE92534.1	PVVPTAA-IKES-----	SVDIKFVQPSD-----	KEAWNSAINNHGNPN	799
BAE46296.1	-----	-----	-----	510
BAH31604.1	-----	-----	-----	466
EEN84644.1	-----	-----	-----	466
EEN88978.1	-----	-----	-----	550
ABG96413.1	-----	-----	-----	498
BAH52971.1	-----	-----	-----	465
EHI44575.1	-----	-----	-----	500
EID73168.1	-----	-----	-----	465
EHK83749.1	-----	-----	-----	441
EJI96173.1	-----	-----	-----	465
ABI79384.1	-----	-----	-----	497
CAR47816.1	-----	-----	-----	498
AEK26937.1	-----	-----	-----	473
ABE39056.1	KF--ARAVDDAP-----	LYRIEPVAP-A-----	AGNAVAAAGGAVP	683
ABD08340.1	AF--DRGADDTP-----	LYGIEPLAP-A-----	ASQPLAATGVAVA	680
CAM03474.1	AP-E---GDGP-----	AYTVSEVTG-G-----	ALDSLAARHGMVE	679
EJF54063.1	-----PIKKK-----	SYKVQLLHDW-----	HAEALGENDFVR	684
AFC23737.1	-----PINKK-----	SYKVQLLHDW-----	HAQTLGENDFVR	672
ADG98903.1	-----	-----	-----	471
EGI54680.1	-----AVQAQP-----	RIDVEVRRT-----	RERLLKLDELQR	665
AEW97204.1	VA---GAED-----	GYEVTEVTG-G-----	PLDALAARHEVVA	692
CAJ88567.1	-----	-----	-----	516
BAC68285.1	-----TSETTGP-----	RFEVQLLTE-A-----	EVRPAIVSEQAYP	673
BAC75137.1	-----	-----	-----	504
EDY51256.1	AADAERPAPVTG-----	PRH-TVTDT-D-----	AAPGLPVPDGLVP	682
EFG07822.1	AADAERPAPVTG-----	PRH-TVTDT-D-----	AAPGLPVPDGLVP	714
EHN78335.1	-----	-----	-----	525
CAB66201.1	-----	-----	-----	527
EGG48117.1	-----	-----	-----	517
EFL20831.1	VETEADH--DAG-----	LYELQDTTD-S-----	VIGELAARHGVQS	688

EFL28515.1	AP-AADAADDGP-----	AYTVTEVTG-G-----	PLDGLARQHGMVA	684
AEY93311.1	-----	-----	-----	542
AEY93321.1	TT-----DEPAH-----	AYAVRTLSG-G-----	PLDALAERHGLVP	680
EFD71156.1	-----	-----	-----	529
CBG67789.1	AQPDTDA--EGG-----	LYVLEDTTD-S-----	VIGGLAARHGVQP	684
CBG68112.1	-----	-----	-----	513
EFL10082.1	-----	-----	-----	501
EFF88741.1	ATAEPQD--GER-----	LYEIQDAPD-S-----	VIGELAARHGVQP	685
EDY58112.1	-----	-----	-----	506
EFL36674.1	-----	-----	-----	510
EFL36680.1	DT-----GEPTA-----	AYEVRTL TG-G-----	PLDALAERHGLVP	730
EFE65335.1	-----	-----	-----	526
EGX54696.1	-----	-----	-----	491
ACZ89135.1	-----VETGP-----	LYEVEVIPSP-----	SAELVAQNRLGL	666
ABD83817.1	RF--SRSADDAP-----	LYSVEPVAP-S-----	AVNAVAALGGTVP	683
ADU39615.1	-A--DTPAEAEP-----	LYTLEELPP-P-----	QKNALVDALGAVA	680
EJL72014.1	-A--DSPAQSEP-----	LYTLEELPP-P-----	QKNAIVDALGAVA	681

sp P14779.2 CPXB_PRIM2	TNVVASKELQQPG-----SARSTRHLEIELP-----KEASYQEGDHLGVIPRN	707
ADF40088.1	TNVVASKELQQPG-----SARSTRHLEIELP-----KEASYQEGDHLGIIPRN	707
ADE70259.1	ANVVASKELQKPG-----SARSTRHLEIELP-----KEASYQEGDHLGVIPRN	707
AEN88827.1	ANVVASKELQQPG-----SERSTRHLEIELP-----KEASYQEGDHLGVIPRN	707
KFN05180.1	TNVVASKELQQPG-----SARSTRHLEIELP-----KEASYQEGDHLGVIPRN	707
ACZ37122.1	ANVVASKELQKPG-----SARSTRHLEIELP-----KEASYQEGDHLGVIPRN	707
ADA57055.1	ANVVASKELQQLG-----SERSTRHLEIALP-----KEASYQEGDHLGVIPRN	707
ADA57058.1	ANVVASKELQKPG-----SARSTRHLEIELP-----KEASYQEGDHLGVIPRN	707
ADA57059.1	ANVVASKELQQLG-----SERSTRHLEIALP-----KEASYQEGDHLGVIPRN	707
ADA57061.1	ANVVASKELQKPG-----SARSTRHLEIELP-----KEASYQEGDHLGVIPRN	707
ADA57062.1	ANVVASKELQQPG-----SERSTRHLEIALP-----KEASYQEGDHLGVIPRN	707
ADA57068.1	ANVVASKELQKPG-----SARSTRHLEIELP-----KEASYQEGDHLGVIPRN	707
AAT62301.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
AAM54108.1	AVVLENRELVR-----GPDAGSKRHELRP-----DGTSYRTGDLVLPQN	703
EFQ83738.1	-----	505
EFL88452.1	VVVRRTRELHSKSGP-----VPSERSTRHIRVKLA-----PGQSYTADHDLSVIPRN	724
BAF89518.1	SRIRVNRELLSPG-----AQGSTRHIEIPLP-----AGTSYAAGDHlavfpvn	824
CBI43648.1	AEVTTNKEHLTES-----SKRSVRHIELRLP-----ETETYQEGDHLGVLPQN	710
AEB22839.1	ASVAENRELQAPE-----SDRSTRHIEIIILP-----KEAAYNEGDDHLGVLPVN	718
EDT22025.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
AFH84458.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	729
ADP31197.1	ASVTENRELQSAD-----SDRSTRHIEIALP-----PGVTYQEGDHLGVLPNSN	718
ACP19384.1	ASILENRELQSPS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
ADL27534.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
ACO29732.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EDX65100.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EEK61456.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
EEL16232.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	729
EDZ53094.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
EEL81346.1	-----	663
EEL87105.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	735
EEL75761.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	662
ACK88541.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EJQ05303.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EEK50040.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
AAS42149.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
AAP10153.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
EEK83466.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGGHHLGVLPIN	729

ACK63698.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	662
EJS57156.1	ASILENRELQSPS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
EJS56605.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	721
EJS68951.1	ATIVENRELQSAG-----SDRSTRHIEVALP-----QGVTYHEGDHLGVLPHN	720
EJQ10567.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
EJQ13433.1	ASILENRELQSSS-----SDRSTQHIEISLP-----EGATYQEGDHLGVLPIN	721
EJQ20399.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
EJQ30236.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
EJQ51278.1	ATIVENRELQSAG-----SDRSTRHIEVALP-----QGVTYHEGDHLGVLPHN	720
EEL10858.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
EEL05393.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	735
EEK94080.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	724
EEK99882.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	724
EEK55784.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	729
ADK05784.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
AAU17340.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EEL64394.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
AEW56259.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
AFQ11690.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EAL16831.1	ASILENRELQTSS-----SERSTRHIEVSLP-----EGATYKEGDHLGVLPIN	721
ACK94296.1	ATILENRELQSSS-----SDRSTRHIEVSLP-----EGATYQEGDHLGVLPIN	721
EDZ58760.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EJV84218.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	721
EJQ69212.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	721
EJQ80339.1	ASVLENRELQLSS-----SDRSTRHIEISLP-----EGATYQEGDHLGVLPSN	721
EJV81602.1	ASILENRELQSPS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
EJQ95474.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EEK44229.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	729
EEK88560.1	ASILENRELQSPS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
EJR07451.1	ATILENRELQSSS-----SDRSTRHIEVSLP-----EGATYQEGDHLGVLPIN	718
EJR16542.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
BAL18840.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EDX69960.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
ACM13462.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EEK75631.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	721
EEL25491.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	662
EEL21990.1	ASILENRELQSSS-----SDRNTRHIEVSLP-----EGATYQEGDHLGVLPIN	729
EEL33825.1	ASILENRELQSSS-----SDRSTRHIEVFLP-----EGATYQEGDHLGVLPIN	729

EEL44933.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	729
EEL50167.1	ATIVENRELQSTG-----SDRSTRHIEVALP-----QGVTYHEGDHLGVLPHN	799
EJR22930.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
EJP91231.1	ATILENRELQSSS-----SDRSTRHIEVSLP-----EGATYQEGDHLGVLPIN	721
EJR37623.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
EJR50635.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EJR64551.1	ASILENRELQSSS-----SDRSTRHIEISLP-----EGATYQEGDHLGVLPIN	721
EJR75620.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
EJR82049.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
EJR83659.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
EJR91135.1	VSFENCESQQSN-----SEQSKRHIEIQLS-----KGVTYKEGDSLGVFPRN	718
EJR97241.1	ASILENRELQSPS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
EJS05852.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	721
EDX58768.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
AAU24352.1	AKISANRELQCEK-----SGRSTRHIEISLP-----EGAAYQEGDHLGVLPQN	717
ABY44122.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	721
EDW23201.1	AVVLKNEELQSEK-----SERQTRHIELQLP-----EGKKYKEGDHIGIVPKN	708
ABV62358.1	AVVLKNEELQSQK-----SERKTRHIELRLP-----EGKKYKEGDHIGIVPKN	708
EIF12263.1	ASVAENRELQAPE-----SGRSTRHIEITLP-----KEAAYHEGDHLGVLPVN	717
EIF14027.1	AEVITNKELHTS-----SKRSVRHIELRLP-----ETETYQEGDHLGVLPQN	710
EHL75405.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLPVN	721
EJD67577.1	ASVAENRELQAPE-----SGRSTRHIEITLP-----KEAAYHEGDHLGVLPVN	717
EJD68347.1	AEVITNKELHTS-----SKRSVRHIELRLP-----ETETYQEGDHLGVLPQN	710
EFV73436.1	AKISANRELQCEK-----SGRSTRHIEISLP-----EGAAYQEGDHLGVLPQN	731
CBY93692.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
AFI27355.1	ASIAENRELQSAD-----SDRSTRHIEIALP-----PDVEYQEGDHLGVLPKN	718
AFI29229.1	GIVLENRELQSAD-----STRSTRHIELEIP-----EGKTYKEGDHIGILPKN	710
EIL85422.1	AVVLKNQELQSEK-----STRQTRHIELQLP-----EGKHYKEGDHIGIVPKN	708
ADV93500.1	GVVLENRELQTAD-----STRSTRHIELEIP-----AGKTYKEGDHIGIMPKN	710
ADV95715.1	ASIAENRELQSAD-----SDRSTRHIEIALP-----PDVEYQEGDHLGVLPKN	718
BAI84248.1	ASIAENRELQSAD-----SDRSTRHIEIALP-----PDVEYQEGDHLGVLPKN	718
EFG90288.1	GNVLENRELQTAD-----SPRSTRHIELQIP-----DAKYTYKEGDHIGILPKN	710
EFG91781.1	ASIAENRELQSAD-----SDRSTRHIEIALP-----PDVEYREGDHLGVLPRN	718
AEP85668.1	ASISENRELQSAD-----SDRSTRHIEITLP-----PDVEYREGDHLGVLPRN	718
AEP87558.1	GNVLENRELQTAD-----SPRSTRHIELQIP-----DAKYTYKEGDHIGILPKN	710
sp O08336.1 CYPB_BACSU	GIVLENRELQTA-----STRSTRHIELEIP-----AGKTYKEGDHIGILPKN	710
sp O08394.1 CYPD_BACSU	ASIAENRELQSAD-----SDRSTRHIEIALP-----PDVEYQEGDHLGVLPKN	718
AEP89812.1	ASIVENRELQSAD-----SDRSTRHIEIALP-----PDVEYQEGDHLGILPKN	718

AEP91702.1	GIVLENRELQTA-----STRSTRHIELEIP-----DGKTYKEGDHIGILPKN	710
EHA31094.1	GVVLENRELQTAD-----STRSTRHIELEIP-----AGKTYKEGDHIGIMPKN	712
ADH07708.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
EEM28177.1	ASILENRELQSPS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
AFQ14162.1	ATILENRELQSSS-----SDRSTRHIEVSLP-----EGATYQEGDHLGVLPIN	721
EEM95517.1	ASVLENRELQSSS-----SERSTRHIEVSLP-----EGATYQEGDHLGVLPIN	721
EEN02344.1	ATILENRELQSSS-----SDRSTRHIEVSLP-----EGATYQEGDHLGVLPIN	721
AFU13781.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYQEGDHLGVLPIN	729
EEM70897.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	729
ADY22413.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	721
EEM82895.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
EEM52818.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	721
EEM59126.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	729
EEM47193.1	ASILENRELQSSS-----SDRSTRHIEVSLP-----EGATYKEGDHLGVLVPN	662
EEM76899.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	729
EEM88909.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	729
EEM38196.1	ATILENRELQSSS-----SDRSTRHIEVSLP-----EGATYQEGDHLGVLPIN	721
EEM21858.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	724
ABK86139.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	729
EJQ37805.1	ASILENRELQSSS-----SDRNTRHIEVSLP-----EGATYQEGDHLGVLPIN	721
CCF04242.1	ASVAENRELQAPE-----SGRSTRHIEITLP-----KEAAYHEGDHLGVLVPN	717
CCF05972.1	AEVITNKELHTES-----SKRSVRHIELRLP-----KTETYREGDHLGVLPN	710
ABS73124.1	ASVAENRELQAPE-----SGRSTRHIEITLP-----KEAAYHEGDHLGVLVPN	717
ABS74786.1	AEVITNKELHTES-----SKRSVRHIELRLP-----ETETYQEGDHLGVLPN	710
EKE46398.1	ASVAENRELQAPE-----SGRSTRHIEITLP-----KEAAYHEGDHLGVLVPN	717
EKE48022.1	AEVITNKELHTES-----SKRSVRHIELRLP-----KTETYREGDHLGVLPN	710
CCG48683.1	ASVAENRELQAPE-----SGRSTRHIEITLP-----KEAAYHEGDHLGVLVPN	717
AFJ60789.1	ASVAENRELQAPE-----SGRSTRHIEITLP-----KEAAYHEGDHLGVLVPN	724
AFJ62808.1	AEVITNKELHTES-----SKRSVRHIELRLP-----ETETYQEGDHLGVLPN	710
EEK66903.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYKEGDHLGVLPIN	735
EJQ52935.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	721
EJS69574.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	721
EJV63294.1	ASILENRELQSSS-----SERSTRHIEISLP-----EGATYQEGDHLGVLPIN	721
EKF35778.1	AVVLKNRELQSEQ-----SARQTRHIELQLP-----EGKPYKEGDHIGIVPKN	708
EGP08506.1	MRVLANDELQNVSAGA-----NPSTRSTRHIEVELP-----DNLYRVGDHLSVIPRN	733
BAL78328.1	MKVLVNDELQNKTGS-----NPSENSTRHIEVQLP-----ANISYRVDHLSVVPRN	729
BAC48147.1	MKVLVNDELQNKGSGS-----NPSENSTRHIEVQLP-----SNITYRVDHLSVVPRN	730
BAL12135.1	MKVLVNDELQNKGFA-----NPSENSTRHIEVQLP-----SNITYRVDHLSVVPRN	730

CCE00185.1	MTILVNRELQNKSGA-----HPSERSTRHIEVQLP-----AGASYRVDHLSVVPRN	733
EIG57609.1	MKVLGNDLQNKGSS-----NPSERSTRHIEVQLP-----SNINYRVDHLSVVPRN	729
EHR02046.1	MKVLVNDLQNKGSS-----NPSERSTRHIEVQLP-----SNINYRVDHLSVVPRN	729
EJN11211.1	-----	670
CCF15606.1	SYVTENRELQGET-----SERSTRHIEIAIP-----AGVHYHEGDHLGVLPKN	656
CCF12687.1	AYIKENRELESAN-----CGRSIRRVEITLP-----DGLSYQEGDQIGVLPKN	719
ABB05850.1	ASIVDNRELVDIS-----VAGSRSKKHIELKL-----EAMTYRSGDYLAVALPRN	722
EHP43606.1	FTVLANTELVNDPAGLWDFALEAPRTATRDIQLRLP-----GGASYATGDHLAVYPQN	752
ABF10339.1	FTVLSNDELVGDPGLWDFSIEAPRTSTRDIRLQLP-----PGITYRTGHDIAVWPQN	720
CAJ95800.1	FTVLANTELVNDPGLWDFSHEAPRTSTRDIRLRLP-----DGVRYATGDHLAVYPQN	751
AEI79937.1	FTVLANTELVNDPGLWDFSREAPRTSTRDIRLRLP-----AGVRYATGDHLAVYPQN	751
AFD27790.1	GRVTANRELVSPD-----HPQGRSKRHL DIELP-----EGMTYRAGDYLAVLPDN	719
ABC62112.1	VEVVANRELKDTS-----KDEGRSTRHLEVR LP-----EGMEYE PGDHL C VVPVN	722
EAQ27850.1	VKMVANRELKNTD-----IGEGRSTRHIEVELA-----QGETYQPGDHL C VVPEN	723
EIT84377.1	ASVIKNDLQR-G-----HERSTRHLELLLP-----AHVSYHAGDHIGILPSN	706
CCG43686.1	AMVNENRELQV-S-----SERSTRHLELKLP-----EGVNYQEGDHLGVLPQN	711
ABX05160.1	ASVLENRELVDLS-----SPLGRSKRHL ERLP-----NELQYQAGDYLAILPQN	711
BAJ96920.1	GEIIENKQLAG-----GPRPKRHI EVALP-----EGITYRAGDYL VVLP MN	710
GAB96874.1	GQIVANRELVDT-----VPGARSKRHL EIALP-----AGQTYETGDYLAVLPLN	769
EFH80345.1	MRVVANRELNSK-----EAERSTRHVELALP-----TGSAYRAGDHLGVARN	727
EFH88481.1	MTILENRELVQHQPD-----ALNGDSTRHLQVSLP-----PNMPYRTGHDHLGV ASN	732
EAW32450.1	MTVTVNDEMVDTR-----VDYGLSKRHISVNLP-----EGVNYKTGDHLLVM PRN	719
EIZ82104.1	ARILENRELVDTA-----SPLGTSKRHIEIALP-----AGMTYRTGDYLAVLPRN	721
AEV70722.1	MTVVQNDELVSAT-----NALNQAKRHRVRALP-----DDFTYNTGHD LTVLADN	713
EFC41452.1	GKVIENYDLVPED-Y---CDDHGTCRSKRHIEIQLP-----AGAHYESGDYLSVLPVN	744
ACV78954.1	-----SDLADI PDA---GPGADGERVTMHD VELD-----PAVSYRPGDHLLVLPQN	753
ACV78964.1	ARVTENRELT LTDPA-----SPGARSTRHLQVTL P-----EGVEYRAGDHLGVLPRN	727
ACV81379.1	TLVTRNVELT--ATG-----AAGVRSTRHVEVALP-----AGLSYRAGDHLGVLPRN	728
EIZ78677.1	GRIVENRELVDMT-----SPLGRSKRHI EIALP-----LGMRYRTGDYLAVLPRN	714
EJW15291.1	ATILDNHELQRGG-----NGRSTRHIEIELP-----EGVSYLEG DHLGVFPIN	718
EJW16173.1	AEVVSNC ELCQQEG-----SGRSTRHIEIALP-----NGV TYEEGDHLGVLPRN	718
EHQ58913.1	AKVVINRELQKAG-----GGRSTRHIEIALP-----EGSVYQEGDHLGVFPQN	716
EHQ59900.1	ANIVENRELQGEG-----SERSTRHLEIALP-----DGVTYREGDHLGVLPVN	715
EHB66924.1	GRIVHSRNLQHED-----SGRITQHIEISLP-----EGTEYHEGDHLGVLPAN	716
AFH60445.1	TTVAENRELQGEG-----SDRSTRHIEVVL P-----EEVSYREGDHLGVLP LN	715
AEI42011.1	TTVAENRELQGEG-----SDRSTRHIEVVL P-----EEVSYREGDHLGVLP LN	715
ADO57681.1	AVVTVNRELHAAE-----SERSTRHLEIQLP-----TGLSYREGDHLGVLPRN	714
EGG32133.1	GRIVLSRNLQHEG-----SGRITQHIEISLP-----PETEYLEG DHLGVLPVN	718

EGL17662.1	AVIAGNTTELQREE-----SGRSTRRIEVKLP-----EGVTYRVDHLDGVLPN	717
ACX65034.1	GRIVFSRNLQHEG-----SGRITQHIEISLP-----PGTEYREGDHLGVLVPN	718
ACT11327.1	GVVVENRELVDMT-----SPFARSKRHIEIRLP-----EGMAYRAGDYLAVLPRN	718
AEA28016.1	STVRVNRELNLDG-----ADRSTRHVIEIALA-----PGTEYQTGDHLGVLPRN	730
EFP68091.1	MTVLANAELVGDAASGLWDFAQEAPRGPTRHLTVR LP-----DGMTYATGDHLAVYPRN	733
EGY61507.1	MTVLANAELVGDAASGLWDFAQEAPRGPTRHLTVR LP-----DGMTYATGDHLAVYPRN	733
EIE85788.1	AVILANKELQKD-----SPRSTRHIEIDISKLLGVGEQGHLYHAGDHLEVM PEN	847
EIE92534.1	AIIVANSELQKDQ-----SPRSTRHIEVDISKLSGVGEQGQLYSAGDHLEVM PEN	849
BAE46296.1	-----	510
BAH31604.1	-----	466
EEN84644.1	-----	466
EEN88978.1	-----	550
ABG96413.1	-----	498
BAH52971.1	-----	465
EHI44575.1	-----	500
EID73168.1	-----	465
EHK83749.1	-----	441
EJI96173.1	-----	465
ABI79384.1	-----	497
CAR47816.1	-----	498
AEK26937.1	-----	473
ABE39056.1	MKVLANRELQDCA-----ASGRSTRHIEIALP-----EGISYRVDHLSVMPRN	727
ABD08340.1	MRVLENRELQDRA-----ASGRSTRHIEIALP-----QGMSYRVDHLSVIPRN	724
CAM03474.1	MTVTEVADLTAPD-----YP--RTKRFVRLALP-----EGTAYRTADHLAVLPVH	722
EJF54063.1	AQLLSKKELVQQD-----SPFASSKIELQIEVP-----EEQSYQTGGYIDILPQN	729
AFC23737.1	AQLLSKKELVQQE-----SPFASSKIELQIEVP-----EGQSYQTGGYIDILPQN	717
ADG98903.1	-----	471
EGI54680.1	GLVLINRELVDMQ-----RPGARSKRHIEIALP-----KGMTYRAGDYLAVLPSN	710
AEW97204.1	MTVTETGDLADLT-----HPLGRSKRFVRLALP-----DGATYRTGDHLAVLPAN	737
CAJ88567.1	-----	516
BAC68285.1	LTVVANEELVSDATGLWDFSIEPPRPAAKSITIELP-----DGVTYDTGNHLAVFAKN	726
BAC75137.1	-----	504
EDY51256.1	LTVVETGELADLD-----HPLGRSKRFLRLDLA-----HGMEYRTADHLLVRPAN	727
EFG07822.1	LTVVETGELADLD-----HPLGRSKRFLRLDLA-----HGMEYRTADHLLVRPAN	759
HN78335.1	-----	525
CAB66201.1	-----	527
EGG48117.1	-----	517
EFL20831.1	MEVLEAYELVVMD-----HPLGRSKRFVRLRLP-----DGVTYRTGDHLAVLPRN	733

EFL28515.1	MEVTETDSLSDPS-----YP--RVKRFVRLALP-----EGVAYRTADHLTVLPSN	727
AEY93311.1	-----	542
AEY93321.1	MTVTEARDLTAPG-----HP--RTKRFRLVALP-----EGVTYRTADHLTVL PAN	723
EFD71156.1	-----	529
CBG67789.1	MEVLDARELVDM-----HGLGRSKRFLRLRLP-----EGVTYRTGDHLAVLPRN	729
CBG68112.1	-----	513
EFL10082.1	-----	501
EFF88741.1	MQVLDARELVMD-----HELGRSKRFLRLRLP-----EGVTYRTGDHLAVLPGN	730
EDY58112.1	-----	506
EFL36674.1	-----	510
EFL36680.1	MRVTEAHDLTAPG-----YA--RRKRFVRVALP-----EGVTYRTADHLTVL PAN	773
EFE65335.1	-----	526
EGX54696.1	-----	491
ACZ89135.1	ATVVENRELVDVG-----SPLGRSKRHIEFALP-----EGTTYQAGDYLTVLPEN	711
ABD83817.1	MTILVSRELQNKG-----DASERSTRHIEVQLP-----GGMTYRVDHLSVVPCN	730
ADU39615.1	LRVVENRELQSPGG-----AGTSRSTRHVELMLP-----EGVNYYVPGDHLSVVPRN	727
EJL72014.1	LRVIENRELQN-GGN-----GEAGRSTRHVELMLP-----EGLVYRAGDHLSVVPRN	727

sp P14779.2 CPXB_PRIM2	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLAKTVSVEELLQ	752
ADF40088.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLAKTVSVEELLQ	752
ADE70259.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLGKTVSVEELLQ	752
AEN88827.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLGKTVSVEELLQ	752
KFN05180.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLAKTVSVEELLQ	752
ACZ37122.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLGKTVSVEELLQ	752
ADA57055.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLGKTVSVEELLQ	752
ADA57058.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLGKTVSVEELLQ	752
ADA57059.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLGKTVSVEELLQ	752
ADA57061.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLGKTVSVEELLQ	752
ADA57062.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLGKTVSVEELLQ	752
ADA57068.1	YEGIVNRVTARFGLDASQQIRLEAEEE-KL-----	AHLPLGKTVSVEELLQ	752
AAT62301.1	NEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
AAM54108.1	HPDLVRRAVARLGTRAERVTVESSAP--T-----	GLPVGRALRVDELLT	747
EFQ83738.1	-----		505
EFL88452.1	SPDLVRRVELRGQLQSASLVRLNSANE---GH-----	SALPTGRPIELRTILLE	769
BAF89518.1	PPALVAAAARCGLAPETQVLLTALHPDAASE-----	AGLPFGVPVSGELLA	872
CBI43648.1	SGELISRVRIFGLDPNQHFKIKG--R-QL-----	PHLPMDRPVNAPELLA	753
AEB22839.1	SKEQVSRLRYYNLNGNDQVLTASGQ-SA-----	AHLPLDRPVRLHDLLS	763
EDT22025.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
AFH84458.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	774
ADP31197.1	SQEKVNRILRRFGLKGNDQVTLTASGR-SA-----	AHLPLDRPVSLHDLLS	763
ACP19384.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILLDLLS	766
ADL27534.1	CEKNINRILRRFGLNGKDQVILSASGR-SI-----	NHIPLDSPVSILLDLLS	766
ACO29732.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EDX65100.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EEK61456.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILLDLLS	766
EEL16232.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	774
EDZ53094.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILLDLLS	766
EEL81346.1	-----		663
EEL87105.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSLFDLLS	780
EEL75761.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILLDLLS	707
ACK88541.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EJQ05303.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EEK50040.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILLDLLS	766
AAS42149.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
AAP10153.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILLALLS	766
EEK83466.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	774

ACK63698.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	707
EJS57156.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJS56605.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLLS	766
EJS68951.1	SEENVSRVLRRYNLNGNDKIVLTASGR-NA-----	AHLPLDMPVSILRDLLS	765
EJQ10567.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJQ13433.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSLLDLLS	766
EJQ20399.1	SEKNINRILRRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJQ30236.1	SEKNINRILRRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJQ51278.1	SEENVSRVLRRYNLNGNDKIVLTASGR-NA-----	AHLPLDMPVSILRDLLS	765
EEL10858.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EEL05393.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLLS	780
EEK94080.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	769
EEK99882.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	769
EEK55784.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	774
ADK05784.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
AAU17340.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EEL64394.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
AEW56259.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
AFQ11690.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EAL16831.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
ACK94296.1	SEKVNVRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EDZ58760.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EJV84218.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLLS	766
EJQ69212.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLLS	766
EJQ80339.1	SQKVNVRVLKRGFLNGKDQVILSASGR-SV-----	NHIPLESPISLFDLLS	766
EJV81602.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJQ95474.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EEK44229.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLFDLLS	774
EEK88560.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJR07451.1	SEKVNVRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	763
EJR16542.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
BAL18840.1	SEKVNVRILRRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EDX69960.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
ACM13462.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EEK75631.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILYDLLS	766
EEL25491.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	707
EEL21990.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLIS	774
EEL33825.1	SEKVNVRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLIS	774

EEL44933.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	774
EEL50167.1	SEENVSRVLRRYNLNGNDQVVLTASGR-NA-----	AHLPPLDMPASLRDLLS	844
EJR22930.1	SEKNINRILRKGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJP91231.1	SEKNVNRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJR37623.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJR50635.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
EJR64551.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHLPLDSPVSLFDLIS	766
EJR75620.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJR82049.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJR83659.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJR91135.1	SKENVDRILKRGFLNGKDQVILTTSGG-PA-----	FHLPLERPVSIFDLIS	763
EJR97241.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJS05852.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSLFDLIS	766
EDX58768.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	766
AAU24352.1	SEVLIGRVQRFLNGNEQILISGR-N-QA-----	SHLPLERPVHKDLFQ	761
ABY44122.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSLFDLIS	766
EDW23201.1	SDALVQRVINRFNLDPKQHIKLYSE-K-KA-----	NHLPLDQPIQMRELLA	752
ABV62358.1	RDVLVQRVIDRFNLDPKQHIKLSSE-K-EA-----	NHLPLGQPIQIRELLA	752
EIF12263.1	SKEQVSRLRFFNLNGNDQVLTASGQ-SA-----	AHLPILDPRPVRLHDLLS	762
EIF14027.1	SGELISRIVRFLDPNQHFKIKG--R-QL-----	PHLPMDRPVNAPELLA	753
EHL75405.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSLLDLLS	766
EJD67577.1	SKEQVSRLRFFNLNGNDQVLTASGQ-SA-----	AHLPILDPRPVRLHDLLS	762
EJD68347.1	SGELISRIVRFLDPNQHFKIKG--R-QL-----	PHLPMDRPVNAPELLA	753
EFV73436.1	SEVLIGRVQRFLNGNEQILISGR-N-QA-----	SHLPLERPVHKDLFQ	775
CBY93692.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLFDLIS	766
AFI27355.1	SPTNVSRLHRFLKGTDQVTLLASGR-SA-----	GHLPLGRPVSILNDLLS	763
AFI29229.1	SRELVQRVLSRFGLQSNHVIQISGS-A-HM-----	AHLPMDRPIKVADLLS	754
EIL85422.1	SATLVQRVTDRFKLDPEQHMILSSE-K-EA-----	SHLPLNQPIQVGElla	752
ADV93500.1	SRELVQRVLSRFGLQSNHVIKVSgs-A-HM-----	SHLPMDRPIKVADLLS	754
ADV95715.1	SQTNVSRLHRFLKGTDQVTLSASGR-SA-----	GHLPLGRPVSILHDLLS	763
BAI84248.1	SQTNVSRLHRFLKGTDQVTLSASGR-SA-----	GHLPLGRPVSILYDLLS	763
EFG90288.1	SQKLVQRVLSRFDLQSNHVIKITGG-P-HM-----	AHLPMDRPIKVTDLLA	754
EFG91781.1	SQTNVSRLHRFLKGTDQVTLSASGR-SA-----	GHLPLGRPVSILHDLLS	763
AEP85668.1	SQTNVSRLHRFLKGTDQVTLSASGR-SA-----	GHLPLGRPVSILHDLLS	763
AEP87558.1	SQKLVQRVLSRFDLQSNHVMKMSGG-P-HM-----	AHLLMDRPIKVMDLLA	754
sp O08336.1 CYPB_BACSU	SRELVQRVLSRFGLQSNHVIKVSgs-A-HM-----	AHLPMDRPIKVVDLLS	754
sp O08394.1 CYPD_BACSU	SQTNVSRLHRFLKGTDQVTLSASGR-SA-----	GHLPLGRPVSILHDLLS	763
AEP89812.1	SQTNVSRLHRFLKGTDQVTLSASGR-SA-----	GHLPLGRPVSILHDLLS	763

AEP91702.1	SRELVQRVLSRFGLQSNHVIKVSGS-A-HM-----	AHLPMDRPIRVVDLLS	754
EHA31094.1	SRELVQRVLSRFGLQSNHVIKVSGS-A-HM-----	SHLPMDRPIKVADLLS	756
ADH07708.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILDLLS	766
EEM28177.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILDLLS	766
AFQ14162.1	SEKNVNRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILDLLS	766
EEM95517.1	SEKNVNRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILFDLLS	766
EEN02344.1	SEKNVNRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILDLLS	766
AFU13781.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLIS	774
EEM70897.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	774
ADY22413.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLFDLLS	766
EEM82895.1	SEKNINRILRRFGLNGKDQVILSASGR-SI-----	NHIPLDSPVSILDLLS	766
EEM52818.1	SEKNINRILRRFGLNGKDQVILSASGR-SI-----	NHIPLDSPVSILDLLS	766
EEM59126.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	774
EEM47193.1	SEKNINRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILDLLS	707
EEM76899.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	774
EEM88909.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	774
EEM38196.1	SEKNVNRILKRGFLNGKDQVILSASGR-SI-----	NHIPLDSPVSILDLLS	766
EEM21858.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	769
ABK86139.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLYDLLS	774
EJQ37805.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLIS	766
CCF04242.1	SKKQVSRVLRRFNLngNDQVLLTASGQ-SA-----	AHLPPLDRPVRLHDLLS	762
CCF05972.1	SGELISRIVRFGFLDPNQHFKIKG--R-QL-----	PHLPMDRPVNAPELLA	753
ABS73124.1	SKEQVSRVLRRFNLngNDQVLLTASGQ-SA-----	AHLPPLDRPVRLHDLLS	762
ABS74786.1	SGELISRIVRFGFLDPNQHFKIKG--R-QL-----	PHLPMDRPVNAPELLA	753
EKE46398.1	SKKQVSRVLRRFNLngNDQVLLTASGQ-SA-----	AHLPPLDRPVRLHDLLS	762
EKE48022.1	SGELISRIVRFGFLDPNQHFKIKG--R-QL-----	PHLPMDRPVNAPELLA	753
CCG48683.1	SKEQVSRVLRRFNLngNDQVLLTASGQ-SA-----	AHLPPLDRPVRLHDLLS	762
AFJ60789.1	SKEQVSRVLRRFNLngNDQVLLTASGQ-SA-----	AHLPPLDRPVRLHDLLS	769
AFJ62808.1	SGELISRIVRFGFLDPNQHFKIKG--R-QL-----	PHLPMDRPVNAPELLA	753
EJK66903.1	SQKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVRLFDLLS	780
EJQ52935.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLLS	766
EJS69574.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLLS	766
EJV63294.1	SEKNVNRILKRGFLNGKDQVILSASGR-SV-----	NHIPLDSPVSILFDLLS	766
EKF35778.1	SAALVQRVTNRFKLDPQQHIMLSSA-K-EA-----	SHLPLNQAIQIRELLA	752
EGP08506.1	DPVLVDAVARRGFLPADQVRLHVAAG--RR-----	AQLPVDNAVSVGRLLT	778
BAL78328.1	DPTLVDSVARRGFLPADQIRLQVAEG--RR-----	AQLPVGDAVSVGRLLS	774
BAC48147.1	DPTLVDSVARRGFLPADQIRLQVAEG--RR-----	AQLPVGEAVSVGRLLS	775
BAL12135.1	DPTLVDSVARRGFLPADQIRLQVAEG--RR-----	AQLPVGDAVSVGRLLS	775

CCE00185.1 DPELVDRVARRFGSPADQIRLRVAEG--RR-----AQLPVGEAVSGRLLT 778
EIG57609.1 DPTLVDVARRGFLPADQIRLQVAEG--RR-----AQLPVGDAVSGRLLS 774
EHR02046.1 DPTLVDVARRGFLPADQIRLQVAEG--RR-----AQLPVGDAVSGRLLS 774
EJN11211.1 ----- 670
CCF15606.1 CPQLVERIVHRFGLNGNDYLILSGSGR-SA-----AHLPLDRPVSYDLLS 701
CCF12687.1 RKEHVERILRRFGGLNGNDHLILRAEGR-NI-----AHLPLDRPVRLDDLLS 764
ABB05850.1 AKNNVDRVLRRFRVSWDTQVVIEGT-S-S-N-----PRLPLGQAIGCGELFS 766
EHP43606.1 HRATVRDLCERLDLDPDAMVTLSAAHA--GA-----ARGLPLDEALPLRELLT 798
ABF10339.1 DAQLVSELCERLDLDPDQAQTISAP-H--GM-----GRGLPIDQALPVQQLLT 765
CAJ95800.1 QPGMVAALCERIGIDPDAIVTLSAS-G--GA-----ARGLPLGEALSVRQQLT 796
AEI79937.1 QPGMVAALCERIGIDPDAIVTLSAS-G--GA-----ARGLPLGEALSVRQQLT 796
AFD27790.1 PADLVERVLRNFNVAPDDQVAQAG--R-A-L-----GFLPGDLTLSAGDLLT 762
ABC62112.1 DPAVVDRLLKRGFLDRDTFVRIESRSD--MR-----GPFPMSGSTFSVNLAE 767
EAQ27850.1 DDAVVERLLRNFNLADTYVRIESRSE--MR-----GPFPMSGSTFSVYNLAK 768
EIT84377.1 SVDLIQRVIKRFALAPSAYVKLQASSS-LA-----THLPLGETVAIEDVLR 751
CCG43686.1 GTELVERVLRFFQLKGEEYVVLGEDTG-KA-----THLPTSQPISLRELLT 756
ABX05160.1 HPSLIERACKHFGKLPEQTIILHATRG--A-----ANLPIDRPISLGEELS 755
BAJ96920.1 SGYMICRALQKFGLNRESQIIHSD---KQ-----TYLPTGYSVNITVILA 753
GAB96874.1 PVPVIDRALARFDLAYDTRLQLS---G-A-A-----TSLPVDAPVLAGELFG 811
EFH80345.1 TPEMVRRVAAHFHFAEDAKIRLRQGDE--RR-----THLPINEPVRVF DLLA 772
EFH88481.1 PEEQVTRIADHFQFDRQTIIQLHANDE--RK-----PAAPVEEPISVY DLLA 777
EAW32450.1 PAVNVERAAVRFGLGIQQRLRLSLKHG--SA-----GAIPINSDITVNTLLS 764
EIZ82104.1 PHPDVERALRRFGLAGDTRILIRKGAG--T-A-----TALPAGYPVSAEILA 766
AEV70722.1 PPELVDAVLEGLGIDGAQRLAVNPRRS--SR-----RLIALDREVSVRELLT 758
EFC41452.1 SMKVVNKALSHFKLTHDDQIVLKRSET--ISS-----SSYPVNEPISAVNLFM 790
ACV78954.1 RQTIIWRAARTLKFDSLVELHATT--V-E-----TGVPLGQPTMMY DLLA 798
ACV78964.1 GIDLIRRVMFRFALAGMYLTIIIPNSG--TH-----THLPTDEQTPLLGV LG 772
ACV81379.1 NQAQIRRVMRMRFGLDMGTYVTITANSG--TH-----THLPVDEPSPLLGV LG 773
EIZ78677.1 PQVDVDRVLRFFGLAADTQVVIG-GQP--N-A-----TSLPSGYPVVALSQILA 758
EJW15291.1 ADNLVERVISRFDLNGSDHVVLRTTGN-SP-----SHLPLHRPV LINDLLS 763
EJW16173.1 HAAQVGRVLRRFGGLNGSDHLIVNASGR-SA-----AHLPTGQPVSLS DLLS 763
EHQ58913.1 RKELVERVLSRFGLDGNDHVILKTSGL-RV-----AHLPLDRPVKLYELLG 761
EHQ59900.1 AQELVDRVLRFFGLQGSDHLLIASGR-SA-----AHLPLDRPISVHDLLS 760
EHB66924.1 PATLVQRVLRRFKLDAGAHLILSAEGR-SG-----AHLPTGVPVRLDDLLS 761
AFH60445.1 PKDLVGRVLQRFGLQGGDHVLVSATGR-SA-----AHLPLGRPVR LS DLLG 760
AEI42011.1 PKDLVGRVLQRFGLQGGDHVLVSATGR-SA-----AHLPLDRPVRLSD DLLG 760
ADO57681.1 PALLVNRVMQRFKLQDQNYIVLRGSDR-DA-----AHLPLDRPVSGD DLLT 759
EGG32133.1 PKTLVQRVLRRFKLNSGSMLSAEGR-SG-----AHLPTGIPVRLDDLLS 763

EGL17662.1	SRESVARVLRRFGLQGSDHLILSGSGR-SA-----	AHLPLDRPVSLEDLLG	762
ACX65034.1	PKTLVQRVLRRFKLNAGSHLILSAEGR-SG-----	AHLPTGIPVRLDDLLS	763
ACT11327.1	SDDQIDRVLRRFGLSPDMMLVINQA-P--D-V-----	TGLPIGQPISCAELLG	762
AEA28016.1	NVDLIRRVIARFKLDAGTYVTITPTGG--SW-----	THLPLDEPAPLLGVLG	775
EFP68091.1	ADDRVDAAITRLALEGDALVTLTAR-H--AH-----	VRHLPLNQPVSVRQLLR	778
EGY61507.1	ADDRVDAAITRLALEGDALVTLTAR-H--AH-----	VRHLPLNQPVSVRQLLR	778
EIE85788.1	SKVIVEAIALKFGWLD SVFEIDQETLLNV-----	SPRSVASNVKGPC TIRNMLT	897
EIE92534.1	SKASVESIALSFGWILD SVFEINQETLSDV-----	SPRSLAANIKGPCTIRNMLT	899
BAE46296.1	-----	-----	510
BAH31604.1	-----	-----	466
EEN84644.1	-----	-----	466
EEN88978.1	-----	-----	550
ABG96413.1	-----	-----	498
BAH52971.1	-----	-----	465
EHI44575.1	-----	-----	500
EID73168.1	-----	-----	465
EHK83749.1	-----	-----	441
EJI96173.1	-----	-----	465
ABI79384.1	-----	-----	497
CAR47816.1	-----	-----	498
AEK26937.1	-----	-----	473
ABE39056.1	DPALVAAVAQRLGFAPDDQIKLQVAPG--RR-----	AQLPIGEAISVGRLLG	772
ABD08340.1	DPALVAAVAQRFGFAPDDQIRLSAAPG--RR-----	AQLPVGEAVSIGGLLG	769
CAM03474.1	DAALVERAAGVLGVLDLTVLDI RAK----RP-----	GRLTFDRSLTVRELLS	765
EJF54063.1	SPANIQRVLRHFQM QHD PYIKLESEQ--SVA-----	LKLPLDQHIRLTDLLK	775
AFC23737.1	SPATIQRVLRHFQM QHD PYIKLESEQ--SVA-----	LKLPLDQHIRLTDLLK	763
ADG98903.1	-----	-----	471
EGI54680.1	PPETVRRALARFGLEPDAEVIVHGAPG--V-P-----	SVLPVDRPVTAETLFG	755
AEW97204.1	DPALVERAARLLGADPDTVLGVRARRP--GR-----	GTLPVDRPVTVRELLT	782
CAJ88567.1	-----	-----	516
BAC68285.1	EPVLVNRALARLGVRDQVRLDQP-G--GG-----	RTHLPVGTPVTTGLLF	771
BAC75137.1	-----	-----	504
EDY51256.1	PAALVDRTAAVLGLDPERTVVLGAAPG--A-----	TGRGPSLPTGEPMTVRTL LT	775
EFG07822.1	PAALVDRTAAVLGLDPERTVVLGAAPG--A-----	TGRGPSLPTGEPMTVRTL LT	807
EHN78335.1	-----	-----	525
CAB66201.1	-----	-----	527
EGG48117.1	-----	-----	517
EFL20831.1	PDDL VQRVADRFGLLDRTVRLCARRS-----	RNILPVDRPLPLRLLT	778

EFL28515.1	DPELVTRAAKLLHADPGTVLSIVPARP---ARR-----	GSLAVDRPVSVRELLT	773
AEY93311.1	-----	-----	542
AEY93321.1	APELVDRAVAAFGLDADAVLDIPTRS---	RPGWSARTGEAERGGALAVDRPVTVRQLLT	780
EFD71156.1	-----	-----	529
CBG67789.1	PDHLVRRVTDRFGLDPDRTVRLRARRR--G-----	RNTLPVDRPLTVRRLLT	774
CBG68112.1	-----	-----	513
EFL10082.1	-----	-----	501
EFF88741.1	PEALVRRVADRFALDLERTVRIGTRRR--S-----	RAALPVDRPLTLRLLT	775
EDY58112.1	-----	-----	506
EFL36674.1	-----	-----	510
EFL36680.1	DPGLVTRAATALGVVLDEVLDIATRP---RR-----	DGIADVDRPVTVRQLLT	818
EFE65335.1	-----	-----	526
EGX54696.1	-----	-----	491
ACZ89135.1	HPELVERAARRFGIQTDAAVVLHSSRG--AMA-----	ASLPTGQPVSVRELLG	757
ABD83817.1	APALVDRVARRGFLPADQIRLAVAEG--RR-----	AQLPVGEAVSIGQLLT	775
ADU39615.1	SPAQVERAMARFGFDRSAHVRLSAAPG--RK-----	TALPVDQVIAVDRLLG	772
EJL72014.1	SPAQVERAMARFGFDRTSHVRLHAAAG--RK-----	AALPVEQVIAVDRLLG	772

sp P14779.2 CPXB_PRIM2	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEALLE-K----QAYKEQVLAKRLTMLE	803
ADF40088.1	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEALLE-K----QAYKEQVLAKRLTMLE	803
ADE70259.1	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEVILLE-K----QAYKEQVLAKRLTMLE	803
AEN88827.1	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEALLE-K----QTYKEQVLAKRLTMLE	803
KFN05180.1	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEALLE-K----QAYKEQVLAKRLTMLE	803
ACZ37122.1	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEVILLE-K----QAYKEQVLAKRLTMLE	803
ADA57055.1	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEALLE-K----QAYKEQVLAKRLTMLE	803
ADA57058.1	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEVILLE-K----QAYKEQVLAKRLTMLE	803
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ADA57061.1	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEVILLE-K----QAYKEQVLAKRLTMLE	803
ADA57062.1	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEALLE-K----QAYKEQVLAKRLTMLE	803
ADA57068.1	-YVELQDPVTRTQLRAMAAKTV--CPPHKVELEVILLE-K----QAYKEQVLAKRLTMLE	803
AAT62301.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-D----GVYQEQILKKRISMLD	818
AAM54108.1	RCVDLsapagagvvarlaercp--CPPERELAATTG-----ATLLE	787
EFQ83738.1	-----	505
EFL88452.1	DLVELQSPASRRDVQLLVKHTR--CPDSKPKEALAGDD-----FKDKVQGRTSILD	820
BAF89518.1	EHVDLAGPVTRRDLRRAWAQAAQ--CPPDRARIAGWL-----SDFPSAVAEAKPRMED	922
CBI43648.1	SYVELQEPATRAQLRELAHTV--CPPHQKELEHLYSDY-----AAKYENVLKKRMTMLD	806
AEB22839.1	SCVELQEAASRAQIREMAAYTV--CPPHKHELEGGL-E----GVYQEQILTLRVSMILD	815
EDT22025.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-D----GVYQEQILKKRISMLD	818
AFH84458.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-D----GVYQEQILKKRISMLD	826
ADP31197.1	YSVDVQEAATRAQIRELAAFTV--CPPHKRELEGGL-E----GVYQEKLQKRISMLD	815
ACP19384.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
ADL27534.1	YSVEVQEAATRAQIREMVTFTP--CPPHKKELEALLE-K----GVYHEQILKKRISMLD	818
ACO29732.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	818
EDX65100.1	YSVEVQEAATRAQIREMVAFTA--CPPHKKELESLL-D----GIYHEQILKKRISMLD	818
EEK61456.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
EEL16232.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-D----GVYQEQILKKRISMLD	826
EDZ53094.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
EEL81346.1	-----	663
EEL87105.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-E----GVYHEQILKKRMSMLN	832
EEL75761.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	759
ACK88541.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-D----GVYQEQILKKRISMLD	818
EJQ05303.1	YSVEVQEAATRAQIREMATFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLA	818
EEK50040.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
AAS42149.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-D----GVYHEQILKKRISMLD	818
AAP10153.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
EEK83466.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	826

ACK63698.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	759
EJS57156.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILRKRISMLD	818
EJS56605.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-E----GVYHEQILKKRMSMLN	818
EJS68951.1	YSVEVQEAATRAQIRELASFTV--CPPHKRELETLVE-E----GIYQEQILKKRISMLD	817
EJQ10567.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
EJQ13433.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-E----GVYHEQILKKRMSMLD	818
EJQ20399.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
EJQ30236.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
EJQ51278.1	YSVEVQEAATRAQIRELASFTV--CPPHKRELETLVE-E----GIYQEQILKKRISMLD	817
EEL10858.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
EEL05393.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELELLLE-E----GVYHEQILKKRMSMLD	832
EEK94080.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	821
EEK99882.1	YSVEVQEAATRAQIREMATFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	821
EEK55784.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	826
ADK05784.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	818
AAU17340.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-D----GVYHEQILKKRISMLD	818
EEL64394.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
AEW56259.1	YSVEVQEAATRAQIREMVAFTA--CPPHKKELESLL-D----GIYHEQILKKRISMLD	818
AFQ11690.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-D----GVYHEQILKKRISMLD	818
EAL16831.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	818
ACK94296.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
EDZ58760.1	YSVEVQEAATRAQIREMATFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	818
EJV84218.1	YSVEVQEAATRAQIREMVTFTS--CPPHKKELESLL-E----GVYHEQILKKRMSMLD	818
EJQ69212.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELELLLE-E----GVYHEQILKKRMSMLD	818
EJQ80339.1	YSVEVQEAATRAQIRELVTF--CPPHKKELESLL-E----GVYYEQILKKRISMLD	818
EJV81602.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
EJQ95474.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	818
EEK44229.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	826
EEK88560.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	818
EJR07451.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	815
EJR16542.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	818
BAL18840.1	YSVEVQEAATRAQIREMATFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	818
EDX69960.1	YSVEVQEAATRAQIREMVAFTA--CPPHKKELESLL-D----GIYHEQILKKRISMLD	818
ACM13462.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E----GVYQEQILKKRISMLD	818
EEK75631.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-D----GIYHEQILKKRISMLN	818
EEL25491.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E----GVYHEQILKKRISMLD	759
EEL21990.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-E----GVYHERILKKRISMLD	826
EEL33825.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-E----GVYHERILKKRISMLD	826

EEL44933.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELESLL-E-----GVYQEQILKKRISMLD	826
EEL50167.1	YSVEMQEAATRAQIRELASFTV--CPPHKRELETLVE-E-----EYKEQILKKRISMLD	896
EJR22930.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E-----GVYHEQILKKRISMLD	818
EJP91231.1	YSVEVQEAATRAQIREIVTFTA--CPPHKKELEALLE-E-----GVYHEQILKKRISMLD	818
EJR37623.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E-----GVYHEQILKKRISMLD	818
EJR50635.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E-----GVYQEQILKKRISMLD	818
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EJR82049.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E-----GVYHEKILKKRISMLD	818
EJR83659.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E-----GVYHEQILKKRISMLD	818
EJR91135.1	HCIEIQDAATLTQIREVAFTV--CPPHKCELEVLL-Q-----KIYEEQILKKRITMLD	815
EJR97241.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E-----GVYHEQILKKRISMLD	818
EJS05852.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELELLLE-E-----GVYHEQILKKRMSMLD	818
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AAU24352.1	HCVELQEPATRAQIRELAHTV--CPPHQRELEDLLK-D-----DVYKDQVLNKRMLD	813
ABY44122.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELELLLE-E-----GVYHEQILKKRMSMLD	818
EDW23201.1	SHVELQEPATRTQLRELAAHTV--CPPHRVELEQMA--G-----EAYQEAILKKRVTMLD	803
ABV62358.1	SHVELQEPATRTQLRELASYTV--CPPHRVELEQMA--G-----EAYQEAILKKRVTMLD	803
EIF12263.1	SCVELQEAASRAQIREMAAYTA--CPPHKRELEDFLE-E-----GVYQEEILTSRVSMLD	814
EIF14027.1	SYVELQEPATRAQLRELAAHTV--CPPHQKELEHLYSDD----TAYKENVLKKRMTMLD	806
EHL75405.1	YSVEVQEAATRAQIREMVTFTA--CPPHKKELEALLE-E-----GVYHEQILKKRISMLD	818
EJD67577.1	SCVELQEAASRVQIREMAAYTV--CPPHKRELEDFLE-E-----GVYQEQILTSRVSMLD	814
EJD68347.1	SYVELQEPATRAQLRELAAHTV--CPPHQKELEHLYSDD----AAYKENVLKKRMTMLD	806
EFV73436.1	HCVELQEPATRAQIRELAHTV--CPPHQRELEDLLK-D-----DVYKDQVLNKRMLD	827
CBY93692.1	YSVEVQEAATRAQIREMVTFTV--CPPHKKELESLL-E-----GVYQEQILKKRISMLD	818
AFI27355.1	YSVEVQEAATRAQIRELAFTV--CPPHKRELEELTA-E-----GVYQEQILKKRISMLD	815
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EIL85422.1	SHVELQEPTVTRTQLRELAKYTV--CPPHRIELEQMA--G-----EIYQEAVLKKRVTMLD	803
ADV93500.1	SYVELQEPAASRLQLRELASYTV--CPPHQKELEQLVLD----GIYKEQVLAKRMLD	807
ADV95715.1	YSVEVQEAATRAQIRELAFTV--CPPHRRELEELSA-E-----GVYQEQILKKRISMLD	815
BAI84248.1	YSVEVQEAATRAQIRELAFTV--CPPHRRELEELSA-E-----GVYQEQILKKRISMLD	815
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AEP85668.1	YSVEVQEAASRAQIRELAFTV--CPPHKRELEDLAT-E-----GIYQEQILKKRISMLD	815
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sp O08394.1 CYPD_BACSU	YSVEVQEAATRAQIRELASFTV--CPPHRRELEELSA-E-----GVYQEQILKKRISMLD	815
AEP89812.1	YSVEVQEAATRAQIRELAFTV--CPPHRRELEELTA-E-----GVYQEQILKKRISMLD	815

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EHA31094.1 SYVELQE PASRLQLRELASYTV--CPPHQKELEQLVLDD----GIYKEQVLAKRLTMLD 809
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CCF04242.1 SCVELQE AASRAQIREMAAYTV--CPPHKRELEDFLE-E----GVYQE QILTSRVSMLD 814
CCF05972.1 SYVELQE PATRAQLRELAHTV--CPPHQKELEHLYSDD----AAYKENVLKKRMTMLD 806
ABS73124.1 SCVELQE AASRAQIREMAAYTV--CPPHKRELEDFLE-E----GVYQE QILTSRVSMLD 814
ABS74786.1 SYVELQE PATRAQLRELAHTV--CPPHQKELEHLYSDD----AAYKENVLKNRMTMLD 806
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EKE48022.1 SYVELQE PATRAQLRELAHTV--CPPHQKELEHLYSDD----AAYKENVLKKRMTMLD 806
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BAL12135.1 EFVELQQVATRKQIQIMAEHTR--CPVTKP KLLAFVGEE-AEPLERYRTEILARRKSVD 832

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EJN11211.1 ----- 670
CCF15606.1 HSVELQEAATRAQLRELASYTT--CPPHKRELEALLE-E----DTYKTNIMNKRISMFN 753
CCF12687.1 QNVDLQATVTHAQLRELAAYTV--CPPHKRELQALLD-E----IIYEQQVEKNGMSMLE 816
ABB05850.1 SYVELAVPATRSQVSSLAAATR--CPPEKVELERLS-A----DGFECIEILGKRTTVM 817
EHP43606.1 HFIELQDVVSQTLRLTLLQYTR--CPVTRAALER-LG-S-DHADDGYAAQVAARRMGLVD 853
ABF10339.1 HFIELQDVVSQTLRALAQATR--CPFTKQSIEQ-LA-S-DDAEHGYATKVVARRLGILD 820
CAJ95800.1 HFVELQDVVSRHTLRLLSQSSR--CPVTRQALRQ-LA-S-DDAGSGYAAQVAPRRLGLAD 851
AEI79937.1 HFVELQDVVSRQTLRLLSQSSR--CPVTRQALQQ-LA-S-DDAESGYAAQVAPRRLGLAD 851
AFD27790.1 HYTELTPATRRQVERLRDATR--CPPERQILAALA-----DGYDTEVLAQRLSVLD 812
ABC62112.1 TAGELQAVATRKDIATLARYSE--CPNSRAALEALAAPPSSADGTDRTSEVLEKRRSVLD 825
EAQ27850.1 TAGELQAVATRKDIATLALYTE--CPNSKPALEKLAQPPQEDGTDQYATDVLAKRKSVD 826
EIT84377.1 NCVELQDTATPSQIELLAHTN--CPHAQQLRALAT-G----DSYQQDIVKKHISMLD 803
CCG43686.1 SYVELQEPA TRSQIRD LAAHNP--CPPHKMELEKLL-E----ETYKNEILAHRLTMLD 808
ABX05160.1 SHVELATPATQRDLELLAQN--CPSHQIHLAALAADH-----ERYTTEILQKRLSLLD 808
BAJ96920.1 AYVELSQPATRKQILKMAEYSA---DDKDKLISLA-E----KSYKEEILEKHTSILD 802
GAB96874.1 SYVELSRPAGRRQIEQLAAACP--CPPEKAQLLALT-DE----STYSAQVLGKRLSVLD 863
EFH80345.1 DYVELQE VATRTQIKVLAEQTE--CPPEKMRLLAICGDD-EASAARYREEVLAKRKLID 829
EFH88481.1 NYIELQDVATRTHIELMLEYTN--DDSERARLEMLVGSG-SESEAAYKKEVLEQHKSID 834
EAW32450.1 RYVELCDPATVRQIKLLAEHAS--CPPDVTALNNLAHSD-----HYKSEVLDKRVSMID 816
EIZ82104.1 DYVELGQPATRAQVGQLAAATR--CPPDRAALEELA-QP----EAYAAEVLEKRVSL 818
AEV70722.1 HFVELRKPATPSQLRRLAASNA--CEPERQRLEELAEAS-----GPCELSPVE 804
EFC41452.1 NYFELSQPATKRQLEILLEHTK--EASDKQVLQQLIEK-----D----SNIPPLID 835
ACV78954.1 GYCDLRAPATRRGIDILAAHV--RD PARA ALLALT ADD-----DAFAGGVLARRVSL 851
ACV78964.1 SCVELQATATRADIEVLAEYTD--DPAQRAELQALLGDD-EQSRTRYREQVSGPNLSVLD 829
ACV81379.1 ACVELQATATRADLEVLAEHTD--DPAQQAALRALTDD-----ETYRTQVREPNLVLD 825
EIZ78677.1 DYVELGQPATRAQVAQLTAATR--CLPDRAALEAHG-DE----ATYARDVLLARRVT 810
EJW15291.1 RSVELQEPA TRAQIRELAALT--CPPHRIELEALLE-A----ESYRQNILEKRVSMID 815
EJW16173.1 HSVELQEAATRAQLRELASYTA--CPPHRRELESLLT-E----DKYVAEVLRKRVSMID 815
EHQ58913.1 RSVELQEATRVQIRELAARTA--CPPHKRELEALLE-E----EAYKSNILQQRISMLE 813
EHQ59900.1 HSVELQEAATRAQLREM ASFTV--CPPHKQELEALLQ-E----DTYQDQVLSKRVTMID 812
EHB66924.1 RSVELQEPA TRAQIREMAECTV--CPPHAKELLELLE-D----PTYQDEVRAKRISMID 813
AFH60445.1 SSVELQEPA TRAQIRELAAYTV--CPPHKRELEALLQ-E----DAYKTEVLRKRVTM 812
AEI42011.1 SSVELQEPA TRAQIRELAAYTV--CPPHKRELEALLQ-E----DAYKTEVLRKRVTM 812
ADO57681.1 LSVELQEPA TRAQRLQLASFTV--CPPHKKEIEALLE-D----TTFDQEIRKKRVTMID 811
EGG32133.1 RSVELQEPA TRAQIREMAASTV--CPPHAKELQELIE-E----ASYQAEVRAKRITMID 815

EGL17662.1	HSVDLQEAAATRAQLRELAGCTA--CPPHKRELEALLE-E-----DAYREQVWKKRVSMLD	814
ACX65034.1	RSVELQEPEPATMAQIREMAASTV--CPPHAKELQELIE-E-----ASYQAEVRAKRITMLD	815
ACT11327.1	NYVELSQPATRAQVAALAAATR--CPPEKMELEKLA-T-----EHYENDVLAPRLSVD	813
AEA28016.1	SCVELQDVAGRSDIATLAASAT--DPAEREALQALTTLD-DEGRARYRKTIAEPRVTVLD	832
EFP68091.1	DFVELQDTATVRDITALHAATR--CPFTRGQLAVWLE-G-DEAAERFDRDIQAPHVSVD	834
EGY61507.1	DFVELQDTATVRDITALHAATR--CPFTRGQLAVWLE-G-DEAAERFDRDIQAPHVSVD	834
EIE85788.1	YYADVTSSPSRAVLGYFATQLKLTAPE TASEFEKLIMPD-SNNQDQYPN-FIKQHRTLLD	955
EIE92534.1	YYADVTSSPSRAVLGCFAAQLKLVA PETASEFEKLIMPD-ANNQDQYPD-FIKQYRTLLD	957
BAE46296.1	-----	510
BAH31604.1	-----	466
EEN84644.1	-----	466
EEN88978.1	-----	550
ABG96413.1	-----	498
BAH52971.1	-----	465
EHI44575.1	-----	500
EID73168.1	-----	465
EHK83749.1	-----	441
EJI96173.1	-----	465
ABI79384.1	-----	497
CAR47816.1	-----	498
AEK26937.1	-----	473
ABE39056.1	DFVELQQVATRKQIAVMAEHTR--CPQTRPKLQALAGGD-GAADEAYRAGVLAKRKSVYD	829
ABD08340.1	DHVELQQVATRKQIVALAAHTR--CPQTRPKLQALAGGD-GAADDAYRAEVLGKRRSVD	826
CAM03474.1	HHVELQDPPTPDGLDALAALNP--CPPERAALRGLAEEA-----RSGTADHRTLWD	814
EJF54063.1	YYVELQRPAGKKLLEEVLAQTR--CPFSAQGLQQFI-----DNEYSEVLQKNRSLLS	825
AFC23737.1	YYVELQRPAGKKWLEEVLAQTR--CPFSAQGLQQFI-----EQYESEVLQKNRSLLS	813
ADG98903.1	-----	471
EGI54680.1	DYLELQQPATRGQITTLATIIP--CPPERKEAERLA-QE-----DIYAAEILARRVTLLD	807
AEW97204.1	YHLELSDPATAAQIAVLADRNP--CPPEQAEKKLA-----PGRASVLD	824
CAJ88567.1	-----	516
BAC68285.1	EFVELQDVATRSQIQELAEHTQ--CPWTRPQLQAYTADT-AEAEERYQKEILGKRVSLN	828
BAC75137.1	-----	504
EDY51256.1	HLVELGRPATARQARALAAHAP--CPPERATLERHADGP-----TDGPTAATATVTD	825
EFG07822.1	HLVELGRPATARQARALAAHAP--CPPERATLERHADGP-----TDGPTAATATVTD	857
EHN78335.1	-----	525
CAB66201.1	-----	527
EGG48117.1	-----	517
EFL20831.1	DFVELQDAATQEQQVAVLAEHTA--CPPEKRPLAELAAVE---PEAFREQTVAGRSVD	832

EFL28515.1	HHVELNHRPNAEQLALLAELNP--CPPEKAALAAQA-----	PGERTLLD	815
AEY93311.1	-----		542
AEY93321.1	HHVELQERPTSRQAALLAEEANP--CPPERAALAALPG-----	DDPRTLVE	823
EFD71156.1	-----		529
CBG67789.1	DFVELQDPATREQIAVLAEHTA--CPPEKRPLTELAAD----	PETFREQVTAGRSVLD	828
CBG68112.1	-----		513
EFL10082.1	-----		501
EFF88741.1	DFVELQDPAAQEQVAVLAEHTE--CPPEQRPLAELATA-----	PVTFREQVTDAGRSVLD	829
EDY58112.1	-----		506
EFL36674.1	-----		510
EFL36680.1	HHVELQERPSTGQLAALAAANP--CPPERMALAALS-----	DDPRTLVE	860
EFE65335.1	-----		526
EGX54696.1	-----		491
ACZ89135.1	HHVELSAPATRKDLERLARHAQ--CPPDRDRLSALAGDP----	VRHRQEILDRRVSVLD	810
ABD83817.1	DFVELQQVATRKQIQIMSEHTR--CPVTKPKLVAYVGDD-ADSSERYRADILSRRKSVYD		832
ADU39615.1	DYVELQDVATRKQIATLAAYTE--CPFTKPKLVALSGSD-EASQAAYKAEVLHKRKSLL	E	829
EJL72014.1	DYVELQDVATRKQIATLAAYTE--CPFTKPRLAALSGSD-EASQAMYKTEVLHKRKSLLD		829

sp P14779.2 CPXB_PRIM2	LLEKYPA-CE--MKFSEFIA-LLPSIRPRYYSISSSPRV-DEKQASITSVVSGEAW-SG	857
ADF40088.1	LLEKYPA-CE--MEFSEFIA-LLPSIRPRYYSISSSPRV-DEKQASITSVVSGEAW-SG	857
ADE70259.1	LLEKYPA-CE--MEFSEFIA-LLPSMRPRYYSISSSPRV-DEKQASITSVVSGEAW-SG	857
AEN88827.1	LLEKYPA-CE--MEFSEFIA-LLPSMRPRYYSISSSPRV-DEKQASITSVVSGEAW-SG	857
KFN05180.1	LLEKYPA-CE--MKFSEFIA-LLPSIRPRYYSISSSPRV-DEKQASITSVVSGEAW-SG	857
ACZ37122.1	LLEKYPA-CE--MEFSEFIA-LLPSMRPRYYSISSSPRV-DEKQASITSVVSGEAW-SG	857
ADA57055.1	LLEKYPA-CE--MEFSEFIA-LLPSISPRYYSISSSPHV-DEKQASITSVVSGEAW-SG	857
ADA57058.1	LLEKYPA-CE--MEFSEFIA-LLPSMRPRYYSISSSPRV-DEKQASITSVVSGEAW-SG	857
ADA57059.1	LLEKYPA-CE--MEFSEFIA-LLPSISPRYYSISSSPHV-DEKQASITSVVSGEAW-SG	857
ADA57061.1	LLEKYPA-CE--MEFSEFIA-LLPSMRPRYYSISSSPRV-DEKQASITSVVSGEAW-SG	857
ADA57062.1	LLEKYPA-CE--MEFSEFIA-LLPSIRPRYYSISSSPRV-DEKQASITSVVSGEAW-SG	857
ADA57068.1	LLEKYPA-CE--MEFSEFIA-LLPSMRPRYYSISSSPRV-DEKQASITSVVSGEAW-SG	857
AAT62301.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	872
AAM54108.1	LLERFPS-CA--VDLALALE-LLPAPRTRLYSISSAAEE-QRAEVALTVSV-----	833
EFQ83738.1	-----	505
EFL88452.1	LLEEFPA-CE--LPFAVYLE-TCPNMVPYYSISSSPKA-GSDRC SITVAVVDDVAR-NG	874
BAF89518.1	LLAQVPS-VQ--LDLAALLT-VRPALKPRYYSISSSPLM-SPDACALTGVGHQFTTA-DG	976
CBI43648.1	LLEDYPA-CE--LPFERFLE-LLPSLKARYYSISSSPKA-NKRELSITGVVVTAPAW-SG	860
AEB22839.1	LLEKYEA-CE--LPFERFLE-LLRPLKPRYYSISSSPLK-HPGQASITGVVVRGP AR-SG	869
EDT22025.1	LLEKYEA-CE--IRFEFPFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	872
AFH84458.1	LLEKYEA-CE--IRFEFPFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	880
ADP31197.1	LLEEYEA-CE--MPFERFLE-LLRPLKPRYYSISSSPRV-NPEQAAITGVVVRSPAW-SG	869
ACP19384.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITGVVVNAPAW-SG	872
ADL27534.1	LLEKNEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-VQNRLSITGVVVNAPAW-SG	872
ACO29732.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	872
EDX65100.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	872
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EEL16232.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	880
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EEL81346.1	-----	663
EEL87105.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITGVVVNAPAW-SG	886
EEL75761.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITGVVVNAPAW-SG	813
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AAS42149.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLI-AQDRLSITGVVVNAPAW-SG	872
AAP10153.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITGVVVNAPAW-SG	872
EEK83466.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	880

ACK63698.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITGVVVNAPAW-SG	813
EJS57156.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITGVVVNAPAW-SG	872
EJS56605.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITGVVVNAPAW-SG	872
EJS68951.1	LLEKYEA-CE--MPFERFLE-LLPALKPRYYSISSSPLV-AEDRLSITRVVSGPAR-SG	871
EJQ10567.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITGVVVNAPAW-SG	872
EJQ13433.1	LLEKYGA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITGVVVNAPAW-SG	872
EJQ20399.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-VQNRLSITGVVVNAPAW-SG	872
EJQ30236.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITGVVVNAPAW-SG	872
EJQ51278.1	LLEKYEA-CE--MPFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVSGPAR-SG	871
EEL10858.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITGVVVNAPAW-SG	872
EEL05393.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	886
EEK94080.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITGVVVNAPAW-SG	875
EEK99882.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	875
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EJR07451.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITGVVVNAPAW-SG	869
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BAL18840.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	872
EDX69960.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	872
ACM13462.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	872
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EEL25491.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITGVVVNAPAW-SG	813
EEL21990.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	880
EEL33825.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	880

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EEL50167.1	LLEKYEA-CE--MPFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVSGPAR-SG	950
EJR22930.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITGVVVNAPAW-SG	872
EJP91231.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITGVVVNAPAW-SG	872
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EJR82049.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITGVVVNAPAW-SG	872
EJR83659.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITGVVVNAPAW-SG	872
EJR91135.1	LIEKYEA-CE--MPFERFLE-LLPPLKPGF-----	841
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AAU24352.1	LLEQYPA-CE--LPFARFLA-LLPPLKPRYYSISSSPQL-NPRQTSITSVVSGPAL-SG	867
ABY44122.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	872
EDW23201.1	LLDQYEA-CE--LSFVHFLA-LLPGLKPRYYSISSSPKV-DEKRVSITVAVVKGKAW-SG	857
ABV62358.1	LLDQYEA-CE--MPFAHFLA-LLPGLKPRYYSISSSPKI-DEKRVSITVAVVKGKAW-SG	857
EIF12263.1	LLEKYEA-CE--LPFERFLE-LLRPLKPRYYSISSSPRK-HPGQASITGVVVRGP-SG	868
EIF14027.1	LLEDYPA-CE--LPFERFLE-LLPSLKARYYSISSSPKA-ASGELSITGVVVTAPAW-SG	860
EHL75405.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITGVVVNAPAW-SG	872
EJD67577.1	LLEKYEA-CE--LPFERFLE-LLRPLKPRYYSISSSPRK-HPGQASITGVVVRGP-SG	868
EJD68347.1	LLEDYPA-CE--LPFERFLE-LLPSLKARYYSISSSPKA-TSGELSITGVVVTAPAW-SG	860
EFV73436.1	LLEQYPA-CE--LPFARFLA-LLPPLKPRYYSISSSPQL-NPRQTSITSVVSGPAL-SG	881
CBY93692.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITGVVVNAPAW-SG	872
AFI27355.1	LLEKYEA-CD--MPFERFLE-LLRPLKPRYYSISSSPRV-NPGQASITGVVVRGP-SG	869
AFI29229.1	LLEDYPA-CE--MPFERFLA-LLPSLKPRYYSISSSPKA-HANIVSMTGVVKASAW-SG	861
EIL85422.1	LLEQYEA-CE--LPFDHFLA-LLPGLKPRYYSISSSPKV-DEKRLSITVAVVKGKSW-SG	857
ADV93500.1	FLEDYPA-CE--MPFERFLA-LLPSLKPRYYSISSSPKV-HANIVSMTGVVKASAW-SG	861
ADV95715.1	LLEKYEA-CD--MPFERFLE-LLRPLKPRYYSISSSPRV-NPRQASITGVVVRGP-SG	869
BAI84248.1	LLEKYEA-CD--MPFERFLE-LLRPLKPRYYSISSSPRV-NPRLASITGVVVRGP-SG	869
EFG90288.1	LLEDYPA-CE--MPFERFLA-LLPSLKPRYYSISSSPKV-HANIVSMTGVVKASAW-SG	861
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AEP85668.1	LLEQYEA-CD--MPFERFLE-LLRPLKPRYYSISSSPRV-NPEQASITGVVHGPAW-SG	869
AEP87558.1	FLEDYPA-CE--MPFERFLA-LLPSLKPRYYSISSSPKV-HANIVSMTGVVKDSAW-SG	861
sp O08336.1 CYPB_BACSU	FLEDYPA-CE--MPFERFLA-LLPSLKPRYYSISSSPKV-HANIVSMTGVVKASAW-SG	861
sp O08394.1 CYPD_BACSU	LLEKYEA-CD--MPFERFLE-LLRPLKPRYYSISSSPRV-NPRQASITGVVVRGP-SG	869
AEP89812.1	LLEKYEA-CD--MPFERFLE-LLRPLKPRYYSISSSPRV-NPRQASITGVVVRGP-SG	869

AEP91702.1	FLEDYPA-CE--MPFERFLA-LLPSLKP ^R YYSISSSPKV-HANIVSMTVGVVKASAW-SG	861
EHA31094.1	FLEDYPA-CE--MPFERFLA-LLPSLKP ^R YYSISSSPKV-HANIVSMTVGVVKASAW-SG	863
ADH07708.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITVGVVNAPAW-SG	872
EEM28177.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITVGVVNAPAW-SG	872
AFQ14162.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITVGVVNAPAW-SG	872
EEM95517.1	LLEKYEA-CE--IQFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	872
EEN02344.1	LLEKYKA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITVGVVNAPAW-SG	872
AFU13781.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	880
EEM70897.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	880
ADY22413.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	872
EEM82895.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITVGVVNAPAW-SG	872
EEM52818.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-VQNRLSITVGVVNAPAW-SG	872
EEM59126.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	880
EEM47193.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AHNRLSITVGVVNAPAW-SG	813
EEM76899.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	880
EEM88909.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AKDRLSITVGVVNAPAW-SG	880
EEM38196.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQNRLSITVGVVNAPAW-SG	872
EEM21858.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	875
ABK86139.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	880
EJQ37805.1	LLEKYEA-CE--IRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	872
CCF04242.1	LLEKYEA-CE--LPFERFLE-LLRPLKPRYYSISSSPRK-HPGQASITVGVVRGPAR-SG	868
CCF05972.1	LLEDYPA-CE--LPFERFLE-LLPSLKARYYSISSSPKA-NKRELSITVGVVTAPAW-SG	860
ABS73124.1	LLEKYEA-CE--LPFERFLE-LLRPLKPRYYSISSSPRK-HPGQASITVGVVRGPAR-SG	868
ABS74786.1	LLEDYPA-CE--LPFERFLE-LLPSLKARYYSISSSPKA-TSGELSITVGVVTAPAW-SG	860
EKE46398.1	LLEKYEA-CE--LPFERFLE-LLRPLKPRYYSISSSPRK-HPGQASITVGVVRGPAR-SG	868
EKE48022.1	LLEDYPA-CE--LPFERFLE-LLPSLKARYYSISSSPKA-NKRELSITVGVVTAPAW-SG	860
CCG48683.1	LLEKYEA-CE--LPFERFLE-LLRPLKPRYYSISSSPRK-HPGQASITVGVVRGPAR-SG	868
AFJ60789.1	LLEKYEA-CE--LPFERFLE-LLRPLKPRYYSISSSPRK-HPGQASITVGVVRGPAR-SG	875
AFJ62808.1	LLEDYPA-CE--LPFERFLE-LLPSLKARYYSISSSPKA-ASGELSITVGVVTAPAW-SG	860
EEK66903.1	LLEKYEA-CE--IRFERFLE-LLPALKRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	886
EJQ52935.1	LLEKYEA-CE--LRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVHAPAW-SG	872
EJS69574.1	LLEKYEA-CE--LRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	872
EJV63294.1	LLEKYEA-CE--LRFERFLE-LLPALKPRYYSISSSPLV-AQDRLSITVGVVNAPAW-SG	872
EKF35778.1	LIEQYEA-CE--LPFHFLA-LLPGLKPRYYSISSSPKV-DEKRLSITVAVVKGKAW-SG	857
EGP08506.1	LLEEYPA-CE--LPFHITLE-MLSLLSPRYYSISSSPASLGANKCSVTVGVVDAPAT-SG	890
BAL78328.1	LLLEYPA-CE--LPFHVYLE-MLSLLAPRYYSISSSPSV-DPARCSITVGVVEGPAA-SG	885
BAC48147.1	LLLEYPA-CE--LPFHVYLE-MLSLLAPRYYSISSSPSV-DPARCSITVGVVEGPAA-SG	886
BAL12135.1	MLLEYPA-CE--LPFHVYLE-MLSLLAPRYYSISSSPSV-DPARCSVTVGVVEGPAA-SG	886

CCE00185.1	LLEDFFPA-CE--LPFHSTYLE-MLTLLAPRYYSISSLSPSG-DPARCSVTVGVVAGPAL-SG	889
EIG57609.1	LLLEYPA-CE--LPFHVYLE-MLSLLAPRYYSISSLSPSV-DPVRCSTVGVVEGPAA-SG	885
EHR02046.1	LLLEYPA-CE--LPFHVYLE-MLSLLAPRYYSISSLSPSV-DPVRCSTVGVVEGPAA-SG	885
EJN11211.1	-----	670
CCF15606.1	LMEQYPA-CE--LPFERFLE-LLPPLKARYYSISSLSPHL-LPDRASTVSVVRGPW-SG	807
CCF12687.1	LLEKYEA-CE--MPFERVIE-LLPPLQPKYYTITSSPEN-SPQQASIMIGADS--LE-SE	868
ABB05850.1	LLERFGS-VD--LSLEKFLD-MLPALKARQYSISSLPLW-KADHVTLTAVVDAHAL-SG	871
EHP43606.1	VLVRHPA-IE--LTLPGLLA-CTVAIRPRFYSIASSPLV-SPEVATITVGTWSPAL-SG	907
ABF10339.1	VLVEHPA-IA--LTQELLA-CTVPMRPRLYSIASSPLV-SPDVATLLVGTVCAPAL-SG	874
CAJ95800.1	VLDRFPA-IE--VDLAGLLA-CTVPMRPRFYSIASSPLV-SPGVATITVGTWSPAL-SG	905
AEI79937.1	VLDRFPA-IE--LDLAGLLA-CTVPMRPRFYSIASSPLV-SPDVATITVGTWSAAL-SG	905
AFD27790.1	LLERVQG-CE--LDFAEFLE-MLPPLRARQYSVSSPLL-RPGGCSLTAVVDAPAH-SG	866
ABC62112.1	MLEEFPA-CD--VPLAVFLE-LIPFLSPRYYSISSLAPEA-NQGLCSITGVVVKGPAL-AG	879
EAQ27850.1	LLEDYPA-CD--LPLAVFLE-MIPFLSPRYYSISSLAPGD-TPQTCSTVGVVKGPAL-SG	880
EIT84377.1	LLDRYEA-CE--LPFSLFLG-SLKPLRPRFYSISSAPTV-CKGRVSITVAVVSGKAY-GG	857
CCG43686.1	LLEDYLS-CE--VPFERFLA-LLPPLKARYYSISSLSPRK-HSEEASVTSSVVKDTAW-SG	862
ABX05160.1	MLEQYPS-SV--LDFGEFLE-LLPAMVRQYSISSLNLV-NPNQASLTAVVDAPAW-SG	862
BAJ96920.1	LLNLYPS-CK--IPLGLFLE-MLPPMRTREYSISSLPLW-KEDCCTITLSVVDAPAW-SG	856
GAB96874.1	LLERFAS-ID--VSLATYLG-MLTPLSPRQYSISSLARW-SQDHATLTVAHLSAPAL-SG	917
EFH80345.1	LLEDNPA-SE--LPFHMYLE-MLPPIRPRYYSISSLPLK-DAEQCSITGVVIDEPAW-SG	883
EFH88481.1	LLEEYPS-CT--IPFNVFLL-CLTPLRPRYYSISSLPL-KPDECSSLVGMVQGPW-SG	888
EAW32450.1	LLDCYSS-ID--LPFATYVD-QLAEQPRYYSIASSHLT-SAGSDIAVSRVAGAAL-GG	870
EIZ82104.1	LLERVPA-CE--LAFGAFLA-ALPAMRTRQYSISSLPLR-DPTRCSLTLSVLDAPAR-AG	872
AEV70722.1	CLLEFAA-CQ--ITGAELLE-MLEPMTPRHYSIASSRR-SPGVVHLIVSVLDAPAR-SG	858
EFC41452.1	IVHDLKS-CT--IPLGNFLD-ISIPMRTRQYSISSLPLW-NKDKCTITVGVLRAPAT-HG	889
ACV78954.1	LATEYPPDQP--IPALVVE-AFPMLKPRPYSISSAPIG-EPNRVGITVGLVSGQAL-SG	906
ACV78964.1	LLERYPD-CA--IPFAYLD-LLPALQPRYYSISSLPLV-SPAECTITAGVLRAPAA-GR	883
ACV81379.1	LLERYPA-CA--LPFPVFLD-LLPALAPRYYSISSLPLA-SPDTCVTEGVLAEPAR-SG	879
EIZ78677.1	LLERFPA-CE--LKLAQFLS-ALPPMRARQYSISSLPLR-DPACCSLTSSVLDAPAL-AG	864
EJW15291.1	LLEKYEA-CL--MTFERFLE-LLPPLKIRYYSISSLSPRV-QPNQISLTGVVVQSPAW-NG	869
EJW16173.1	LLEKYEA-CE--MPFERFLE-LLPPLKARYYSISSLSPRI-QEKRASITGVVVVRGPW-SG	869
EHQ58913.1	LLEKYEA-CE--MPFERFLE-LLPPLKARYYSMSSSPRV-QPRQASITSVVVQGPW-SG	867
EHQ59900.1	LLEKYP-CE--LPFQRFIE-LLPPLKARYYSISSLSPKA-LPDRVSITGVVVVRGPAR-SG	866
EHB66924.1	LLERYEA-CE--LPFERFLE-LLPPLKPRYYSISSLSPRV-SRNTASITSVVVRDSAW-SG	867
AFH60445.1	LLEKYP-CE--LPFERFLE-LLPPLKARYYSISSLSPRV-LGDRVSITSVVVRGPW-SG	866
AEI42011.1	LLEKYP-CE--LPFERFLE-LLPPLKARYYSISSLSPRV-LGDRVSITSVVVRGPW-SG	866
ADO57681.1	IILEKYP-CE--LPFENFIS-LLPPLKPRYYSISSLPLE-SENSASITSVVVRGPAR-SG	865
EGG32133.1	LLERYEA-CE--LPFERFLE-LLPPLKPRYYSISSLSPKV-SRNTASITSVVVRDRAW-SG	869

EGL17662.1	LLERYEA-CE--LGFERFLE-LLPPLKPRYYSISSAPQV-QPEEASITGVVVKGPAW-SG	868
ACX65034.1	LLERYEA-CE--LPFERFLE-LLPPLKPRYYSISSSPKV-SRNTASVTSVVRDRAW-SG	869
ACT11327.1	LLYRFQS-CP--TDFRRYLT-MLPSIKARQYSISSPAW-KPDHVTLTAVVDSPAL-SG	867
AEA28016.1	LLDAYPS-CD--LSFAQFLD-MLPPLRPRYYSISSAPSE--SETCHITVGVLVDPAR-GR	885
EFP68091.1	LLIRFPA-IE--LTLEAFLA-RLGPMRPRFYSIASSARV-SPGVAALTGVTVSGPAW-SG	888
EGY61507.1	LLIRFPA-IE--LTLEAFLA-RLGPMRPRFYSIASSARV-SPGVAALTGVTVSGPAW-SG	888
EIE85788.1	LISAYPQVNR--LDLGQFLA-AVPVIQPERRYSIACSPLV-YPKHAHLTGVVVDDVN---	1008
EIE92534.1	LIHAYPQVNR--LDLRQFLA-AVPVIQPERRYSIASSPLS-YPKHAHLAGVVVVDDVN---	1010
BAE46296.1	-----	510
BAH31604.1	-----	466
EEN84644.1	-----	466
EEN88978.1	-----	550
ABG96413.1	-----	498
BAH52971.1	-----	465
EHI44575.1	-----	500
EID73168.1	-----	465
EHK83749.1	-----	441
EJI96173.1	-----	465
ABI79384.1	-----	497
CAR47816.1	-----	498
AEK26937.1	-----	473
ABE39056.1	LMQEHPA-CE--LPLHAYLE-MLSPLAPRYYSISSLR-DPSRAAITVAVVDGPAL-SG	883
ABD08340.1	LLQEHPA-CE--LPFAAYLE-MLTPLQPRYYSISSSPAR-DPARASVTAVVEGPAL-SG	880
CAM03474.1	LIEDHPA-LRDALSWSALLE-LLPATRPRQYSVSSSPAV-DPRHVDLMSVLRAPAR-SG	870
EJF54063.1	IIEQFPG-AK--IDLQFIT-ALPAMRRTYSISSLVKQ-SADKASLVSCIKGAAW-SG	879
AFC23737.1	IIEQFPG-AK--IDLQFIS-ALPAMRRTYSISSLVKQ-STDKASLVVSCIKGAAW-SG	867
ADG98903.1	-----	471
EGI54680.1	LLERFAS-AD--MALGVFIA-ALPPMRARQYSIASSPLV-DPSRCALTTSVLEVPAL-GV	861
AEW97204.1	LVERYPA-LTGRLDWPTVLGTLLPQIRIRHYSVSSSPAV-SPGHVDLMSLLEADG---	878
CAJ88567.1	-----	516
BAC68285.1	LLERFPA-VE--LPLAVFLE-MMGPIRPRFYISSLPLA-NPRHVRLTVGLLEGPAL-SG	882
BAC75137.1	-----	504
EDY51256.1	LLERNAS-CR--PGLADLLD-ILVPMNLRYYSVSSSPAL-APGSADMVAAPVPHR-SG	879
EFG07822.1	LLERNAS-CR--PGLADLLD-ILVPMNLRYYSVSSSPAL-APGSADMVAAPVPHR-SG	911
EHN78335.1	-----	525
CAB66201.1	-----	527
EGG48117.1	-----	517
EFL20831.1	LLERFRA-CE--LPFERFLE-LLPVLRPRHYSISSSAQA-APGEVDLMSLLAAPHR-GG	886

EFL28515.1	LIEANPA-LRETLTWPVLLE-LLPPLRPRHYSVSSSPAV-SPRHVDLMSLLRDE-----	867
AEY93311.1	-----	542
AEY93321.1	LAEDHPA-LRGALDWPLLD-LLTPLRPRHYSISSAPAA-DPRHADLMVSVLDA PAR-SG	879
EFD71156.1	-----	529
CBG67789.1	LLERHRA-CE--LPFERFLE-LLPVLRPRPYSISSLALA-APGEVDLMSLLAAPHR-AG	882
CBG68112.1	-----	513
EFL10082.1	-----	501
EFF88741.1	LLERYRA-CA--LPFERFLE-LLPVLRPRHYSVSSAEA-APGEVDLMSLLAAPHR-SG	883
EDY58112.1	-----	506
EFL36674.1	-----	510
EFL36680.1	IIEDHPA-LRGALDWPRLLD-LLTPLRPRHYSISSLPAV-DPGHADLMVSLLA PAR-SG	916
EFE65335.1	-----	526
EGX54696.1	-----	491
ACZ89135.1	LLDTHPS-LD--TPFGEFLD-MLPAMRVHQYSISSLPRW-NPAHCTLTVGVVDAPAL-SG	864
ABD83817.1	LLEEFPA-IE--LPFPAYLE-MLSLLAPRYYSISSLPTG-DASRC SITGVVVSCPASSTG	887
ADU39615.1	LLEEHRA-CQ--VPFAVFLE-MLSPLSPRYYSISSLPSM-TPGRC SITGVVVSEPAL-SG	883
EJL72014.1	LLEEHRA-CQ--VPFAVFLE-MLSPLSPRYYSISSLPTM-TPGKCSVTGVVVSGPAR-SG	883

sp P14779.2 CPXB_PRIM2	-YGEYKGIAASNYLAEHQEGDTITCFISTPQ-SEFTLPKDP-ETPLIMVPGTGVAPFRGF	914
ADF40088.1	-YGEYKGIAASNYLAEHQEGDTITCFISTPQ-SEFTLPKDP-ETPLIMVPGTGVAPFRGF	914
ADE70259.1	-YGEYKGIAASNYLANLQEGLDITCFVSTPQ-SGFTLPKGP-ETPLIMVPGTGVAPFRGF	914
AEN88827.1	-YGEYKGIAASNYLAEHQEGDTITCFISTPQ-SGFALPKDS-QTPIIMVPGTGVAPFRGF	914
KFN05180.1	-YGEYKGIAASNYLAEHQEGDTITCFISTPQ-SEFTLPKDP-ETPLIMVPGTGVAPFRGF	914
ACZ37122.1	-YGEYKGIAASNYLANLQEGLDITCFVSTPQ-SGFTLPKGP-ETPLIMVPGTGVAPFRGF	914
ADA57055.1	-YGEYKGIAASNYLANLQEGLDITCFVSTPQ-SGFTLPKDS-ETPLIMVPGTGVAPFRGF	914
ADA57058.1	-YGEYKGIAASNYLANLQEGLDITCFVSTPQ-SGFTLPKGP-ETPLIMVPGTGVAPFRGF	914
ADA57059.1	-YGEYKGIAASNYLANLQEGLDITCFVSTPQ-SGFTLPKDS-ETPLIMVPGTGVAPFRGF	914
ADA57061.1	-YGEYKGIAASNYLANLQEGLDITCFVSTPQ-SGFTLPKGP-ETPLIMVPGTGVAPFRGF	914
ADA57062.1	-YGEYKGIAASNYLANLQEGLDITCFVSTPQ-SGFTLPKDS-ETPLIMVPGTGVAPFRSF	914
ADA57068.1	-YGEYKGIAASNYLANLQEGLDITCFVSTPQ-SGFTLPKGP-ETPLIMVPGTGVAPFRGF	914
AAT62301.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGTGIAPFRGF	929
AAM54108.1	-----TGVTSGYLSRVRPGRDVAVGIASPP-ESFRPPADN-TVPVVLIAAGTGIAPFRGF	886
EFQ83738.1	-----	505
EFL88452.1	-KGRYLGTCSNYLAGLKEGSSFHAATRQPS-AGFTLPEDP-LRPVIMIGPGTGIAPFRGF	931
BAF89518.1	--VRHDGLCSSLVSCGEDAPVRVLVKDTG-STFHPADP-AVPLILVPGTGLAPLRGF	1032
CBI43648.1	-RGEYRGVASNYLAGLQNGDSAVCFIRSPQ-SGFALPENT-KTPLIMIGAGTGIAPFRGF	917
AEB22839.1	-LGEYRGVASNYLADRSPDDGIVMFVRTPE-TKFRLPEDP-EKPIIMVPGTGVAPFRGF	926
EDT22025.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGTGIAPFRGF	929
AFH84458.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGTGIAPFRGF	937
ADP31197.1	-HGEYRGVASNYLADRTPGDDIDMFVRTPE-SRFQLPEDP-EKPIIMVPGTGVAPFRGF	926
ACP19384.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGTGIAPFRGF	929
ADL27534.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFELPKDP-ETPIIMGGPGTGIAPFRGF	929
ACO29732.1	-EGTYEGVASNYLAQRHNDKEEIIICFIRTPQ-SNFQLPENP-ETPIIMVPGTGIAPFRGF	929
EDX65100.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGTGIAPFRGF	929
EEK61456.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGTGIAPFRGF	929
EEL16232.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGTGIAPFRGF	937
EDZ53094.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGTGIAPFRGF	929
EEL81346.1	-----	663
EEL87105.1	-VGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGTGIAPFRGF	943
EEL75761.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFELPKNP-ETPIIMVPGTGIAPFRGF	870
ACK88541.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGTGIAPFRGF	929
EJQ05303.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFQLPENL-ETPIIMVPGTGIAPFRGF	929
EEK50040.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGTGIAPFRGF	929
AAS42149.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGTGIAPFRGF	929
AAP10153.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGTGIAPFRGF	929
EEK83466.1	-EGTYEGVASNYLAQRHNDDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGTGIAPFRGF	937

ACK63698 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF 870
EJS57156 .1 -EGTYEGVASNYLAQRHSKDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF 929
EJS56605 .1 -VGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
EJS68951 .1 -QGEYKGVASNYLAQRHNEDNIACFIRTPQ-SGFQLPKNP-ETPIIMVPGPTGIAPFRGF 928
EJQ10567 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF 929
EJQ13433 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
EJQ20399 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF 929
EJQ30236 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF 929
EJQ51278 .1 -QGEYKGVASNYLAQCHNEDNIACFIRTPQ-SGFQLPKNP-ETPIIMVPGPTGIAPFRGF 928
EEL10858 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF 929
EEL05393 .1 -VGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 943
EEK94080 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFELPKNP-ETPIIMVPGPTGIAPFRGF 932
EEK99882 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENL-ETPIIMVPGPTGIAPFRGF 932
EEK55784 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 937
ADK05784 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLSENP-ETPIIMVPGPTGIAPFRGF 929
AAU17340 .1 -EGTYEGVASNYLAQLHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
EEL64394 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF 929
AEW56259 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
AFQ11690 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
EAL16831 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
ACK94296 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGVAPFRGF 929
EDZ58760 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENL-ETPIIMVPGPTGIAPFRGF 929
EJV84218 .1 -VGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
EJJ69212 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGVAPFRGF 929
EJJ80339 .1 -QGTYEGVASNYLAQRHNNKDEIICFIRTPQ-SNFQLPEDP-ETPIIMVPGPTGIAPFRGF 929
EJV81602 .1 -EGTYEGVASNYLAQRHSKDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF 929
EJQ95474 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
EEK44229 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 937
EEK88560 .1 -EGTYEGVASNYLAQRHSKDAIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF 929
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EJR16542 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
BAL18840 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENL-ETPIIMVPGPTGIAPFRGF 929
EDX69960 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
ACM13462 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 929
EEK75631 .1 -EGTYEGVASNYLARRHNCDEIICFIRTPQ-SNFQLPGNP-ETPIIMVPGPTGIAPFRGF 929
EEL25491 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF 870
EEL21990 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 937
EEL33825 .1 -EGTYEGVASNYLAQRHNCDEIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF 937

EEL44933.1	-EGIYEGVASNYLAQRHNDIIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF	937
EEL50167.1	-RGEYKGVASNYLAQRHNEDNIACFIRTPQ-SGFQLPKNP-ETPIIMVPGPTGIAPFRGF	1007
EJR22930.1	-EGTYEGVASNYLAQRHNDIIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFCGF	929
EJP91231.1	-EGTYEGVASNYLAQRHNDIIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGVAPFRGF	929
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EJR64551.1	-EGTYEGVASNYLARRHNDEIIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF	929
EJR75620.1	-EGTYEGVASNYLAQRHNDIIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF	929
EJR82049.1	-EGTYEGVASNYLAQRHNDIIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF	929
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EDX58768.1	-EGTYEGVASNYLAQRHNDIIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF	929
AAU24352.1	-RGHYKGVASNYLAGLEPGDAISCFIREPQ-SGFRLPEDP-ETPVIMVPGPTGIAPYRGF	924
ABY44122.1	-EGTYEGVASNYLAQRHNDIIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGVAPFRGF	929
EDW23201.1	-RGEYAGVASNYLCGLKEGEEVACFLHEAQ-AGFQLPPSS-EVPMIMIGPGTGIAPFRGF	914
ABV62358.1	-RGEYAGVASNYLCDLQKGEEVACFLHEAQ-AGFQLPPSS-ETPMIMIGPGTGIAPFRGF	914
EIF12263.1	-LGEYRGVASNYLADRGPEDGIVMFVRTPE-TRFRLPEDP-EKPIIMVPGPTGVAPFRGF	925
EIF14027.1	-RGEYRGVASNYLAGLQKGDPAVCFIRSPQ-SGFALPENP-KTPLIMVGAGTGIAPFRGF	917
EHL75405.1	-EGTYEGVASNYLAQRHNDIIICFIRTPQ-SNFELPKDP-ETPIIMVPGPTGIAPFRGF	929
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EJD68347.1	-RGEYRGVASNYLAGLQKGDSAVCFIRSPQ-SGFALPENP-KTPLIMVGAGTGIAPFRGF	917
EFV73436.1	-RGHYKGVASNYLAGLEPGDAISCFIREPQ-SGFRLPEDP-ETPVIMVPGPTGIAPYRGF	938
CBY93692.1	-EGTYEGVASNYLAQRHNDIIICFIRTPQ-SNFQLPENP-ETPIIMVPGPTGIAPFRGF	929
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sp O08394.1 CYPD_BACSU	-RGEYRGVASNDLAERQAGDDVMFIRTPE-SRFQLPKDP-ETPIIMVPGPTGVAPFRGF	926
AEP89812.1	-RGEYRGVASNDLAERQAGDDVMFIRTPE-SRFQLPKDP-ETPIIMVPGPTGVAPFRGF	926

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ABS73124.1 -LGEYRGVASNYLADRPPEDGIVMFVRTPE-TRFRLPEDP-EKPIIMVGPGTGVAPFRGF 925
ABS74786.1 -RGEYRGVASNYLAGLQKGDSAVCFIRSPQ-SGFALPENP-KTPLIMVGAGTGIAPFRGF 917
EKE46398.1 -LGEYRGVASNYLADRPPEDGIVMFVRTPE-TRFRLPEDP-EKPIIMVGPGTGVAPFRGF 925
EKE48022.1 -RGEYKGVASNYLAGLQNGDSAVCFIRSPQ-SGFALPENT-KTPLIMIGAGTGIAPFRGF 917
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BAL78328.1 -RGTYKGVCNSYLANRRAGDAIYATVRETK-AGFRLPDD-SVPVIMIGPGTGLAPFRGF 942
BAC48147.1 -RGVYKGICSNYLANRRASDAIYATVRETK-AGFRLPDDS-SVPIIMIGPGTGLAPFRGF 943
BAL12135.1 -RGTYKGICSNYLSNRRAGDAIYATVRETK-AGFRLPDES-SVPIIMIGPGTGLAPFRGF 943

CCE00185.1 -RGLYKGVCNSYLASRREGESVFATVRETK-AGFHPEDS-RRPIIMIGPGTGLAPFRGF 946
EIG57609.1 -RGTYKGICSNYLANRRAGDVIHATVRETK-AGFRLPDDP-SVPIVMIGPGTGLAPFRGF 942
EHR02046.1 -RGTYKGICSNYLANRRAGDVIHATVRETK-AGFRLPDDP-SVPIVMIGPGTGLAPFRGF 942
EJN11211.1 ----- 670
CCF15606.1 -HGEYRGVASNYLADLKPNPDVVIFVRTPE-SHFTLPTNT-ETPLIMIGPGTVAPFRGF 864
CCF12687.1 -CGVHLGMLDHYLADCHPEEKIIMFISTPE-S----- 898
ABB05850.1 -NGRHGVASSYLAIRLNTGDSLSVAVRPSN-ARFRPPAEP-DLPMILICAGSGIAPFRGF 928
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EIT84377.1 -DYEYRGVASNDLAQKAKGDEVYAFMPSPN-TAFHYPEDP-ATPLIMVGPGTGLAPFRGF 914
CCG43686.1 -RGEFKGTASNYMANRDIGDKVACFINTPQ-SNFTLPENP-ETPMVWIGPGTGIAPFRGF 919
ABX05160.1 -KGQFYGTGSSYLAQVGDQIAVSLRQPH-IPFRPPSAN-STPLLMICAGTGLAPFRGF 919
BAJ96920.1 -VALYKGVCNSYLATATEGRKVTVVHPS--ATFHLPGSP-TVPIILVGAGTGIAPLRGF 912
GAB96874.1 -EGTYEGVASTFLANARPGAQIPVTVRPSN-VDFAPPAGL-ATPMIMVCAGTGLAPFRGF 974
EFH80345.1 -HGAYQGVCSNYLKNLEPGQIAYAFVRDTK-STFRLPEDA-STPLIMVGPGTGLAPFRGF 940
EFH88481.1 -HGTFEGVCTSILRNQHTGDIVYAFVQNTN-GPFHLPEDP-RTPIIIMIAAGTGVSPFRGF 945
EAW32450.1 -NGNYLGACSSTLSDEVGESIWARIRSVD-SEFLPPQDL-QQPIIMIGPGTGVAPFRGF 927
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AEV70722.1 -RGLFKGVASNHLAAISPVGPIRARVDQAR-EAFRAGADP-EKNVILVSAGTGVAPFCGF 915
EFC41452.1 -KGFHEGVASNFLASCLPDMQSVQIRN---SSFKLNDP-SVPIIMIGAGTGIAPFRGF 944
ACV78954.1 -HGRYYGVTSYLVTLGAGLRLILARVADPG-PQFHPPADP-RTPLVMVCAGTGVAPFRGF 963
ACV78964.1 -DHEFAGVCSNYLASMAPNSTIFAFRREPT-IPFRPPADP-TIPMIMIAAGTGLAPFRGF 940
ACV81379.1 -AGRFEVGVCSTYLASMDAGSTVFVFTREPT-IPFRPPADP-SVPMIMVGAGTGLAPFRGF 936
EIZ78677.1 -ERRHLGVASTHLAGLTEGAAVSVAVRPSQ-AAFHPPEDP-ATPIILVCAGSGIAPFHGF 921
EJW15291.1 -RHEYRGVASNFLADRQPGESIMMFIQPPQ-SNFRLPEDP-STPIIMVGPGVGIAPFRGF 926
EJW16173.1 -NGEYRGVASNYLAAREAGDSILMFVRTPE-SRFQPPADP-VTPIIMVGPGTGVAPFRGF 926
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EHQ59900.1 -RGEFRGVTSNYLAVRQPGDAIAMFVRTPE-SGFLLPQA-DTPMIMVGPGTGVAPFRGF 923
EHB66924.1 -RGEYRGIASNYLAELEVGAEVLFIRSPE-SGFELPEDP-ATPMIMIGPGTGVAPFRGF 924
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AEI42011.1 -RGEYRGIASNYLAERKPGDPVVVFVRSPE-SGFELPEDP-STPVIMVGPGTGVAPFRGF 923
ADO57681.1 -QGEYLGIAASNYLAQLQPDDPVVIFVRKPQ-SGFRLPEDP-TVPIIMVGPGTGVAPFRGF 922
EGG32133.1 -KGEYRGIASNYLAELETGAEVLMFIRSPE-SGFALPKDP-ATPMIMIGPGTGVAPFRGF 926

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ACT11327.1	-IGRYKGVASNYLASLKPDDR1AIVVRPSS-PFFHLPDDP-SIPIILIGAGSGIAPFRGF	924
AEA28016.1	-DGRFAGVCSTHLRSCETDSTVFTVRRPT-IPFRPPENP-HTPMIMVGAGTGMAPFRGF	942
EFP68091.1	-VGTYRGTASTYLMMLRAGAEIAAVRTPN-PPFAPDADA-SKPMVLIGAGTGIAPFRGF	945
EGY61507.1	-VGTYRGTASTYLMMLRAGAEIAAVRTPN-PPFAPDADA-SKPMVLIGAGTGIAPFRGF	945
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BAH52971.1	-----	465
EHI44575.1	-----	500
EID73168.1	-----	465
EHK83749.1	-----	441
EJI96173.1	-----	465
ABI79384.1	-----	497
CAR47816.1	-----	498
AEK26937.1	-----	473
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CAM03474.1	-RGEFRGAGSRHLSEVRPGDTVLARVQPCR-EDFRV--AP-DEPLIMVAAGTGLAPFRGV	925
EJF54063.1	-QGEYQGLASAYLNKLEEGQLLWLRFTPNL-PNFPAPKS--EDKLILIAAGTGIAPFRAF	935
AFC23737.1	-QGEYQGLASGYLSQLEEGQLLWLRFSNL-PNFPAPKS--EDKLILIAAGTGIAPFRAF	923
ADG98903.1	-----	471
EGI54680.1	-DRLHRGVASTFLARLKDGDTLGVAVRPSQ-TGFHLPADP-LTPVIMVCAGSGIAPFRGF	918
AEW97204.1	---RRGTGSGHLHVRPGDVYARVAPCR-EAFRIAAGD-EVPVVMVAAGTGLAPFRGA	932
CAJ88567.1	-----	516
BAC68285.1	-DGRYRGTCSSYIAGLESQDVFYGYVRVPS-PTFAPPADP-ATPLLLIGPGTGIAPLRGF	939
BAC75137.1	-----	504
EDY51256.1	-EGTFLGTGAAYMADLAPGDTVHGRISPCR-DAFRLPDDP-SVPAILVSAGTGLAPFRAE	936
EFG07822.1	-EGTFLGTGAAYMADLAPGDTVHGRISPCR-DAFRLPDDP-SVPAILVSAGTGLAPFRAE	968
EHN78335.1	-----	525
CAB66201.1	-----	527
EGG48117.1	-----	517
EFL20831.1	-EGTFNGIASHYIQTVRAGDTVQARVLPCS-ESFRLPEDP-SVPVILVSAGTGLAPFRGA	943

EFL28515.1	-TSGFQGTGSGHLNAVPGDTVLARVQPCR-DAFRIGHAP-DRPVIMVSAGTGLAPFRGT	924
AEY93311.1	-----	542
AEY93321.1	-KGRHRGTGSGHLASLRPGDTVYARVQPCR-EAFRIDH---TAPVVMVAAGTGLAPFRGA	934
EFD71156.1	-----	529
CBG67789.1	-EGMFHGIGSHFLQTVRPGDTLQARVLPCS-EAFRLPDDT-SASVILVSAGTGLAPFRGA	939
CBG68112.1	-----	513
EFL10082.1	-----	501
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EDY58112.1	-----	506
EFL36674.1	-----	510
EFL36680.1	-KGVYRG TGSGHLNTVEPGDIVYARVQPCR-EAFRIDAADASAPVVMIAAGTGLAPFRGA	974
EFE65335.1	-----	526
EGX54696.1	-----	491
ACZ89135.1	-VGRFRGISSTYLARLRPGDRVPIAVRRPN-VPFQPPVSN-GTPVIMIAAGTGIAPFRGF	921
ABD83817.1	-RGLYRGVC PYYLASRREGESVFATVRETK-AGFRLPDDP-SVPIIMIGPGTGLAPFRGF	944
ADU39615.1	-NGIFEGVCSNYLARA EAGDTVHGVIRETTAEGFRLPEDA-MRPLIMVGPGTGLAPFRGF	941
EJL72014.1	-SGTFEGVCSNFLARA EAGDTVHGVVRETTAEGFRLPDDA-ARPLIMVGPGTGLAPFRGF	941

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KFN05180.1	VQARKQLK-EQG-QSLGEAHLYFGCRSPHEDLYQEELENAQSEGIITLHT-AFSRMPN-	970
ACZ37122.1	VQARKQLK-EQG-QSLGEAHLYFGCRSPHEDLYQKELENAQNEGIITLHT-AFSRVPN-	970
ADA57055.1	VQARKQLK-EQG-QSLGEAHLYFGCRSPHEDLYQEELENAQNEGIITLHT-AFSRVPN-	970
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ADA57059.1	VQARKQLK-EQG-QSLGEAHLYFGCRSPHEDLYQEELENAQNEGIITLHT-AFSRVPN-	970
ADA57061.1	VQARKQLK-EQG-QSLGEAHLYFGCRSPHEDLYQKELENAQNEGIITLHT-AFSRVPN-	970
ADA57062.1	VQARKQLK-EQG-QSLGEAHLYFGCRSPHEDLYQEELENAQNEGIITLHT-AFSRVPN-	970
ADA57068.1	VQARKQLK-EQG-QSLGEAHLYFGCRSPHEDLYQKELENAQNEGIITLHT-AFSRVPN-	970
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AAM54108.1	LRARAA---LG-GEPGPALLFGCRGPELDDLYAEEFAALGD--WLEVDR-AYSRHPD-	937
EFQ83738.1	-----	505
EFL88452.1	LQDRAADM-AAG-IDLGPAALFFGCRHPQDFIYRQELEAWSEQGVCDLHT-AFSRA-D-	986
BAF89518.1	IQERHALR-AQG-RATGPVLLFFGCRD-DGDYLYREELEAYRDEGTLSLLAVGFSRRPG-	1088
CBI43648.1	IQARAAEK-MSG-NSLGEAHLYFGCRHPEEDDLKYDEFDHAEKNGLVTVHR-AYSRLDQ-	973
AEB22839.1	IQARAALK-GEG-KELGEAHLYFGCRN-DYDFIYRDELEAYEKDGIVTLHT-AFSRKEG-	981
EDT22025.1	IQARRVQK-QKG-MNVGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
AFH84458.1	IQARRVQK-QKG-MNVGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	993
ADP31197.1	IQARAALK-QEG-KTLGEAHLYFGCRN-DNDFIYRGELEAYEKEGIVTLHT-AFSRKEG-	981
ACP19384.1	IQARRVQK-QKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
ADL27534.1	IQARRVQK-QKG-INLGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
ACO29732.1	IQARRVQK-QKG-MNLGEAHLYFGCRHPEKDLYRTELENDEREGLISLHT-AFSRLEG-	985
EDX65100.1	IQARRVQK-QKG-MKVGEAHLYFGCRHPEKDLYRTELENDEREGLISLHT-AFSRLEG-	985
EEK61456.1	IQARRVQK-QKG-INLGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EEL16232.1	IQARRVQK-QKG-MNVGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	993
EDZ53094.1	IQARRVQK-QKG-INLGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EEL81346.1	-----	663
EEL87105.1	IQARRVQK-QKG-INLGEAHLYFGCRHPEQDYLYRTELENDERDGLISLHA-AFSRLEG-	999
EEL75761.1	IQARRVQK-QKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	926
ACK88541.1	IQARRVQK-QKG-MNVGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EJQ05303.1	IQARRVQK-QKG-MKVGEAHLYFGCRHPEKDLYRTELENDEREGLISLHT-AFSRLEG-	985
EEK50040.1	IQARRVQK-QKG-INLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
AAS42149.1	IQARRVQK-QKG-MNLGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
AAP10153.1	IQARRVQK-QKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EEK83466.1	IQARRVQK-QKG-MNLGEAHLYFGCRHPEKDLYRTELENDEREGLISLHT-AFSRLEG-	993

ACK63698 .1	LQARRVQK-QKG-MNLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	926
EJS57156 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EJS56605 .1	IQARRVQK-QKG-INLGEAHLYFGCRHPEQDYLRTLENDERDGLISLHA-AFSRLEG-	985
EJS68951 .1	IQSRRIQK-QQG-IKLGEAHLYFGCRHPEHDYLRTLENDERKDEKGILSLHT-AFSRLEG-	984
EJQ10567 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EJQ13433 .1	LQARRVQK-QKG-MNLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EJQ20399 .1	LQARRVQK-QKG-INLGEAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EJQ30236 .1	LQARRVQK-QKG-INLGEAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EJQ51278 .1	LQSRRIQK-QQG-IKLGEARLYFGCRHPEQDYLRTLENDKDEKGILSLHT-AFSRLEG-	984
EEL10858 .1	LQARRVQK-QKG-MNLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EEL05393 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	999
EEK94080 .1	LQARRVQK-QKG-MNLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	988
EEK99882 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDEREGLISLHT-AFSRLEG-	988
EEK55784 .1	LQARRVQK-QKG-MNLGEAHLYFGCRHPEKDYLRTLENDEREGLISLHT-AFSRLEG-	993
ADK05784 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDEREGLISLHT-AFSRLEG-	985
AAU17340 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EEL64394 .1	LQARRVQK-QKG-INLGEAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
AEW56259 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDEREGLISLHT-AFSRLEG-	985
AFQ11690 .1	LQARRVQK-QKG-MNLGEAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EAL16831 .1	LQARRVQK-QKG-MNLGEAHLYFGCRHPEKDYLRTLENDEREGLISLHT-AFSRLEG-	985
ACK94296 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EDZ58760 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDEREGLISLHT-AFSRLEG-	985
EJV84218 .1	VQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EJQ69212 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHI-AFSRLEG-	985
EJQ80339 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EJV81602 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EJQ95474 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDEREGLISLHT-AFSRLEG-	985
EEK44229 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	993
EEK88560 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
EJR07451 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	982
EJR16542 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	985
BAL18840 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDEREGLISLHT-AFSRLEG-	985
EDX69960 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDERDGLVSLHT-AFSRLEG-	985
ACM13462 .1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDYLRTLENDEREGLISLHT-AFSRLEG-	985
EEK75631 .1	LQARRVQK-QKG-MNLGEAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLDG-	985
EEL25491 .1	LQARRVQK-QKG-MNLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	926
EEL21990 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	993
EEL33825 .1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDYLRTLENDERDGLISLHT-AFSRLEG-	993

EEL44933.1	LQARRVQK-QKG-MNVGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	993
EEL50167.1	LQSRRIQK-QQG-IKLGEAHLYFGCRHPEQDLYRTELEKDEKDGLISLHT-AFSRLEG-	1063
EJR22930.1	LQARRVQK-QKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EJP91231.1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EJR37623.1	LQARRVQK-QKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EJR50635.1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EJR64551.1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDLYRKELENDERDGLISLHT-AFSRLEG-	985
EJR75620.1	LQARRVQK-QKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EJR82049.1	LQARRVQK-QKG-INLGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EJR83659.1	LQARRVQK-QKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EJR91135.1	-----	841
EJR97241.1	LQARRVQK-KKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EJS05852.1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHI-AFSRLEG-	985
EDX58768.1	LQARRVQK-QKG-MNVGEAHLYFGCHHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
AAU24352.1	LQARRIQR-DAG-VKLGEAHLYFGCRRPNEDFLYRDELEQAEKDGVHLHT-AFSRLEG-	980
ABY44122.1	LQARRVQK-QKG-INLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHI-AFSRLEG-	985
EDW23201.1	VQAREVWQ-KEG-KPLGEAHLYFGCRHPHEDDLYFEEMQLAAQKGVVHIIHR-AYSRHK--	969
ABV62358.1	VQAREVWQ-KEG-KRLGEAHLYFGCRHPHEDDLYFEEMQLAAQKGVVHIRR-AYSRHK--	969
EIF12263.1	LQARAALK-KEG-KELGEAHLYFGCRN-DHDFIYRDELEAYEKDGIVTLHT-AFSRKEG-	980
EIF14027.1	IQARAAEK-MSG-NSLGEAHLYFGCRHPEQDDLYKDEFDHAEKNGLVTVHR-AYSRLDQ-	973
EHL75405.1	LQARRVQK-QKG-INLGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EJD67577.1	LQARAALK-KEG-KELGEAHLYFGCRN-DHDFIYRDELEAYEKDGIVTLHT-AFSRKEG-	980
EJD68347.1	IQARAAEK-MSG-NSLGEAHLYFGCRHPEEEDLYKDEFDHAEKNGLVTVHR-AYSRLDQ-	973
EFV73436.1	LQARRIQR-DAG-VKLGEAHLYFGCRRPNEDFLYRDELEQAEKDGVHLHT-AFSRLEG-	994
CBY93692.1	LQARRVQK-QKG-MKVGEAHLYFGCRHPEKDLYRTELENDEREGLISLHT-AFSRLEG-	985
AFI27355.1	LQARDVLK-REG-KTLGEAHLYFGCRN-DRDFIYRDELEQFEKDGVVTVHT-AFSRKEG-	981
AFI29229.1	IQARSVLN-KEG-STLGEALLYFGCRRPDHDDLYREELDQAEQEGLVTIRR-CYSRVEN-	974
EIL85422.1	IQAREAWQ-NEG-KPLGEAHLYFGCRHPHEDDLYYDEMQLAEQKGVVTIHR-AYSRYE--	969
ADV93500.1	IQARSVLK-KEG-STLGEALLYFGCRRPDHDDLYREELDQAEQEGLVTIRR-CYSRVEN-	974
ADV95715.1	LQARDVLK-REG-KTLGEAHLYFGCRN-DRDFIYRDELERFEKDGVVTVHT-AFSRKEG-	981
BAI84248.1	LQAREVLK-REG-KTLGEAHLYFGCRN-DRDFIYRDELEQFEKDGVVTVHT-AFSRKEG-	981
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AEP85668.1	IQARAAALK-REG-KALGEAHLYFGCRN-DHDFIYRDELEQFEKDGVVTVHT-AFSRKEG-	981
AEP87558.1	IQARSVLK-KEG-SALGEALLYFGCRRPDHDDLYREELDQAEQDGGLVTIRR-CYSRVEN-	974
sp O08336.1 CYPB_BACSU	IQARSVLK-KEG-STLGEALLYFGCRRPDHDDLYREELDQAEQDGGLVTIRR-CYSRVEN-	974
sp O08394.1 CYPD_BACSU	LQARDVLK-REG-KTLGEAHLYFGCRN-DRDFIYRDELERFEKDGVVTVHT-AFSRKEG-	981
AEP89812.1	LQAREVLK-REG-KKLGEAHLYFGCRN-DRDFIYRDELEQFKKDGVVTVHT-AFSRKEG-	981

AEP91702.1	IQARSVLK-KEG-STLGEALLYFGCRRPDHDDLYREELDQAEQDGLVTIRR-CYSRVEN-	974
EHA31094.1	IQARSVLK-KEG-STLGEALLYFGCRRPDHDDLYREELDQAEQEGLVTIRR-CYSRVEN-	976
ADH07708.1	IQARRVQK-QKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
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EEM70897.1	IQARRVQK-QKG-MNVGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	993
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EEM59126.1	IQARRVQK-QKG-MNVGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	993
EEM47193.1	IQARRVQK-QKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	926
EEM76899.1	IQARRVQK-QKG-MNVGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	993
EEM88909.1	IQARRVQK-QKG-MKVGEAHLYFGCRHPEKDLYRTELENDEREGLISLHT-AFSRLEG-	993
EEM38196.1	IQARRVQK-QKG-INLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EEM21858.1	IQARRVQK-QKG-MKVGEAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	988
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CCF04242.1	IQARAALK-KEG-KELGEAHLYFGCRN-DHDFIYRDELEAYEKDGIVTLHT-AFSRKEG-	980
CCF05972.1	IQARAEEK-MSG-NSLGEAHLYFGCRHPEEDDLYKDEFDAEKNGLVTVHR-AYSRLDQ-	973
ABS73124.1	IQARAALK-KEG-KELGEAHLYFGCRN-DHDFIYRDELEAYEKDGIVTLHT-AFSRKEG-	980
ABS74786.1	IQARAEEK-MSG-NSLGEAHLYFGCRHPEQDDLYKDEFDAEKNGLVTVHR-AYSRLDQ-	973
EKE46398.1	IQARAALK-KEG-KELGEAHLYFGCRN-DHDFIYRDELEAYEKDGIVTLHT-AFSRKEG-	980
EKE48022.1	IQARAEEK-MSG-NSLGEAHLYFGCRHPEEDDLYKDEFDAEKNGLVTVHR-AYSRLDQ-	973
CCG48683.1	IQARAALK-KEG-KELGEAHLYFGCRN-DHDFIYRDELEAYEKDGIVTLHT-AFSRKEG-	980
AFJ60789.1	IQARAALK-KEG-KELGEAHLYFGCRN-DHDFIYRDELEAYEKDGIVTLHT-AFSRKEG-	987
AFJ62808.1	IQARAEEK-MSG-NSLGEAHLYFGCRHPEEDDLYKDEFDDAEKNGLVTVHR-AYSRLDQ-	973
EJK66903.1	IQARRVQK-QKG-MNLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	999
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EJV63294.1	IQARRVQK-QKG-INLGQAHLYFGCRHPEKDLYRTELENDERDGLISLHT-AFSRLEG-	985
EKF35778.1	IQARGEWH-NEG-KQLGEAHLYFGCRHPHEDDLYYDEMQLAAQKGLVTIHR-AYSRYE--	969
EGP08506.1	IQERAAMK-EKG-QTLCPSMLFFGCRHPDQDFLYADELKGYAEQGITDLHV-AFSRA-D-	1002
BAL78328.1	IQERAARK-AKG-AALGPAMLFFGCRHPDQDFLYADELTALAASGITELFT-AFSRA-D-	997
BAC48147.1	IQERAARK-AKG-ASLGPAFFGCRHPDQDFLYADELKALAASGVTELFT-AFSRA-D-	998
BAL12135.1	IQERAARK-AKG-AALGPAMLFFGCRHPDQDFLYAEEELKGLAASGITELFT-AFSRA-D-	998

CCE00185.1	IQERAAQK-AAG-RSLGPAMLFFGCRHPEQDLYADELKAFADSGICELFT-AFSRG-D-	1001
EIG57609.1	IQERAERK-AKG-AALGPAMLFFGCRHPDQDFLYANELKALAASGITELFT-AFSRA-E-	997
EHR02046.1	IQERAARK-AKG-AALGPAMLFFGCRHPDQDFLYADELKALAASGITELFT-AFSRV-E-	997
EJN11211.1	-----	670
CCF15606.1	IQARKHYQ-QQG-KQLGEAHLYFGARHPQQDLYQEEFAQYEKEGIVTIHT-AFSRVEG-	920
CCF12687.1	-----	898
ABB05850.1	IQERALQK-QRG-ENVGTSLLFFGIDDPDVDFLYRDELDEWARCGVVEVMP-AYSNRPE-	984
EHP43606.1	LEERAHQK-AAG-QAVAASQFYGGCRHPQHDWLYRDDVARWQSEGVVQQAHA-AYSTSAA-	1020
ABF10339.1	LEERALRK-MAG-NAVTPAQLYFGCRHPQHDWLYREDIERWAGQGVVEVHP-AYSVVP--	986
CAJ95800.1	LEERAHQQ-AAG-QPVAPVQLYYGCRHPAHDWLYRDDVARWQAGGVVQVHL-ACSVVD--	1017
AEI79937.1	LEERAHQQ-AAG-QPVAPVQLYYGCRHPAHDWLYRDDVARWQAGGVVQVHL-ACSVVD--	1017
AFD27790.1	LEERALRQ-AGG-ETVGEALLFFGCDHPDLDFLYRDELLAWQERGVSVRP-AFSQQPE-	979
ABC62112.1	IQRDHLQ-EDG-AVLGEAMLFVGCRHPDIDLYREELDDYDQRGVATVHA-AFSRH-D-	991
EAQ27850.1	IQERDALA-SSG-EELGPALYFGCRTPDEDFLYRDELEDYDKRGIVTLRT-AFSRV-D-	992
EIT84377.1	IQHRAFLQ-QQG-IALGPAHLYFGCRN-EEDLYREELAAYNEQQLVTLHT-VFSRTGN-	969
CCG43686.1	IQARENLL-EEG-HRLGEAHLYFGCRHPEKDFLYKNELEKAADKGLTLHT-AFSRIEG-	975
ABX05160.1	IQERVARQ-GQG-EALGPNALFFGCDHPEVDLHYHEQIQAWQKAGVLEFFP-AFYRQPV-	975
BAJ96920.1	IQERAIQI-QNG-RTVGDTLFFGCPGPDDGFLYKEELDAWEKIGAVKVRT-AFFRVQG-	968
GAB96874.1	IQDRALRAQSEG-VTPAPALLFFGCDGPVDLYRDELAWEADGIVQVRP-AFSAAPQD	1032
EFH80345.1	IQERAAQR-EAG-QSVGPSLLFFGCRHSRQDFLYEDELKTFEQQGVTELHT-AFSRE-Q-	995
EFH88481.1	IQERGRQK-QAG-KEIGPALLFFGCRDP-QHLLYPEEIKRGEDNGIVKVFA-VYSRVAS-	1000
EAW32450.1	IQDRMLHL-KQG-KTLGEAIIFFGCRHPDVEIYGDEFAEAQAAGAVSCIK-AYSRAPA-	983
EIZ82104.1	IQERAIQK-ANG-RPVGPALLFFGATHPDVDLYRDELAWEAQGVSVRT-AFSQAPD-	985
AEV70722.1	LGDRILAAR-EAD-EPYSTALCFFGVRDPDVDYIFREQFERGEELGIVRMRP-AFSRAPQ-	971
EFC41452.1	VQERACLI-KEG-KTLGKALLFQGCRNPEQDLYLYKKELEEWSQLGAVELRP-VFSRMGS-	1000
ACV78954.1	IQERAAER-AIG-RPVGPTLLFRGCRHPDLDRIYGRELDTWAGQGWLDLYE-AYSRPGD-	1019
ACV78964.1	IQERAVQK-ERG-EPVAPSLLFFGCRYPD-QFLYADELADSEKTADRVY-T-AFSRQPV-	995
ACV81379.1	IQERAAQG-ADG-AALAPSLLFFGCRTRD-DRLYEQELADFATSASVQTYT-AFSREPG-	991
EIZ78677.1	IQERAIQR-SGG-RNVGEALLFFGIDHPDVDLYRDELKQWQAGGVVDVRP-AFSQAPE-	977
EJW15291.1	IQARQAMK-EQG-ISLGSAYLYFGCRD-ATDHLYEEELKQYQLEGIVTVHT-AFSRIEG-	981
EJW16173.1	IQARQALQ-QEG-KSLGQAILLYYGCERN-EADLYREELERYVQDGIVIVHT-AFSRKEG-	981
EHQ58913.1	IQARRELK-RKG-VQLGSAHLYFGCRD-EADHIYLEELEQFQQEGLVTVHT-AFSRLPG-	979
EHQ59900.1	IQARRALK-QEG-KTLGEAHLYFGCRNPEHDLYREELEQYERDGFVRLHT-AFSRVAN-	979
EHB66924.1	IQARQALR-DAG-QELGAAHLYFGCRNPEHDLYRDELEQAERAGLVTLHS-AFSRVDG-	980
AFH60445.1	IQARRVLK-AQG-AELGEAHLYFGCRNPQHDLYREELEQAERDGLVVLHT-ACSRVDG-	979
AEI42011.1	IQARRVLQ-AQG-AELGEAHLYFGCRNPQHDLYREELEQAEKDGLVVLHT-ACSRVDG-	979
ADO57681.1	IQTRHVLK-ERG-EQLGEAHLYYGC RDPKLDLYKQELQTWEQEGIVTVHT-AFSRLPG-	978
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ACX65034.1	IQARQALR-EAG-QELGAAHLYFGCRNPEQDFLYREEFERAEQEGLVTLHT-AFSRVSG-	982
ACT11327.1	IQERALQQ-AAG-VRVGPALLFFGTGHPDVDYLRYDELAAWEKSHIVTVP-AFSHQPD-	980
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ABI79384.1	-----	497
CAR47816.1	-----	498
AEK26937.1	-----	473
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EKE48022.1 ---DCKVYVQDVLLREAAQIIALLDQ----G---GHLYICGDGSKMAPAVENVLLQAYEK 1023
CCG48683.1 ---VPKTYVQHLMAKDAGALISILGR----G---GHLYVCGDGSKMAPDVEATLQKAYQS 1030
AFJ60789.1 ---VPKTYVQHLMAKDAGALISILGR----G---GHLYVCGDGSKMAPDVEATLQKAYQS 1037
AFJ62808.1 ---DCKVYVQDVLLREAAQIIALLDQ----G---GHLYICGDGSKMAPAVENVLLQAYEK 1023
EEK66903.1 ---YPKTYVQHLIKQDRINLISLLDN----G---AHLYICGDGSKMAPDVEDTLCQAYQE 1049
EJQ52935.1 ---YPKTYVQHLIKQDRINLISLLDN----G---AHLYICGDGSKMAPDVEDTLCQAYQE 1035
EJS69574.1 ---YPKTYVQHLIKQDRINLITLLDN----G---AHLYICGDGSKMAPDVEDTLCQAYQE 1035
EJV63294.1 ---YPKTYVQHLIKQDRINLITLLDN----G---AHLYICGDGSKMAPDVEDTLCQAYQE 1035
EKF35778.1 ---EHKVVVQHLIKKDGVKLIEWLDQ----G---AYLYICGDGKVMAPDVEAALIDLYMT 1019
EGP08506.1 ---TPKSYVQDLIAAQKDKVWKLIEA----G---AIIYVCGDGGKMEPDVKRVLMSIYRE 1052
BAL78328.1 ---GPKTYVQHVLAAQKDKVWPLIEQ----G---AIVYVCGDGGKMEPDVKAALVAIRHE 1047
BAC48147.1 ---GPKTYVQHVLAAQKDKVWPLIEQ----G---AIIYVCGDGGQMEPDVKAALVAIRHE 1048
BAL12135.1 ---GPKTYVQHMLAAQKDRVWPLIEQ----G---AIIYVCGDGGKMEPDVKAALVAIRHE 1048

CCE00185.1 ---GPKTYVQHLLAAQRARVWELLEQ----S---AVIFCGDGSKMEPDVKATLMQIHRD 1051
EIG57609.1 ---GPKTYVQHVLAAQKDKVWPLIEQ----G---AMVYVCGDGSKMEPDVKAALVAIHRE 1047
EHR02046.1 ---GPKTYVQHVLAAQKDKVWPLIEQ----G---AIVYVCGDGSKMEPDVKAALVAIHRE 1047
EJN11211.1 -----
CCF15606.1 ---QPKTYVQHLMKQNEQELIRLLDQ----G---ARLYVCGDGSRMAPDVEATLISSYQT 970
CCF12687.1 -----
ABB05850.1 ---EGARFVQDKVWLTERERISALFSQ----G---ATVFVCGDGKNMAPAVRATLGRIYQE 1034
EHP43606.1 ---PDQRYVQHLLWRDRQAVWAMLRD----G---ATIYVCGDGRQMAPAVRRTLIEIAAQ 1070
ABF10339.1 ---DAPRYVQDLLWQRREQVWAQVRD----G---ATIYVCGDGRRMAPAVRQTLIEIGMA 1036
CAJ95800.1 ---GEPRYVQDLLWQRRAVDWARLNQ----G---AIIYVCGDGRHMAPAVRQVLIQIGAE 1067
AEI79937.1 ---GEPRYVQDLLWQRRAVDWARLNQ----G---AIVYVCGDGRHMAPAVRQVLIQIGAE 1067
AFD27790.1 ---DGVEFVQHRLWQDRADVARLFRQ----G---AHLYVCGDGRFMAPAVRETLVRIYQE 1029
ABC62112.1 ---GSRTYVQDLIAREADRVWELIEQ----D---ARIYVCGDGARMEPDVRKALMAIYAE 1041
EAQ27850.1 ---EGKCYVQDHIAADDADAIWEMLEA----G---GRIYVCGDGARMEPDVRAALAKIHS 1042
EIT84377.1 ---TDVKYVQHVMQHAEELLGLLQQ----G---AKLCVCGDGTHMARDVEATLLSLYET 1019
CCG43686.1 ---KGKVVVQDRLWEDASTVLSLEN----G---GCLYICGDGSEMAPAVIEKIIKSYQH 1025
ABX05160.1 ---GEVSFVQHRLWQERQYVWSLIEQ----G---AVIAVCGDGRSMAPIAVRETLARIYAE 1025
BAJ96920.1 ---AEAKYVQDRLWIDRKEVMDLMNK----D---ARIYVCGEATKMAPAVRSTFIKIYQE 1018
GAB96874.1 GPEGPMRFVQDRLWADRADVADLVRA----G---ATLYVCGDGQRMAPAVHDTCVRMYAQ 1085
EFH80345.1 ---EQKVVVQHQLWEQRARVWELLEQ----G---AIIYVCGDASQMAPDVQATFARIYQE 1045
EFH88481.1 ---QPRVYVQDKVLEQQDAIWNLQQ----G---AVTYVCGDTTRMVPAVAESYKQIYQA 1050
EAW32450.1 ---HPRHYVQDAIAANANRIWELWTR----G---ARIYVCGDAQYMLPGVRHALQHIYQD 1033
EIZ82104.1 ---GDVRYVQHWRDRADVADLFRA----G---ATVFVCGDGERMAPAVRATCVRIYQE 1035
AEV70722.1 ---DGVRYVQDRIAADADEVWSLLGD----PAKDTHVYVCGDGAKMAPAIRQAFLDIYCT 1024
EFC41452.1 ---NVKYVQDKIMECKEEVAKLLE----E---AQIYICGEGNHMAPAVKKVLMEIYQQ 1049
ACV78954.1 ---GSGRYVQQAVRHDGADVLDLLDR----D---AVVYVCGNRHTMAPEVSTIAALHAD 1069
ACV78964.1 ---EGRRYAQHEMLAHQDEIWDLIGQ----G---ASIFVCGNARTLAPGVRAALTQISAS 1045
ACV81379.1 ---QQRRYAQHEMLAHADEIWSLLEA----G---GVVYVCGNARTLAPGVRAALTQIAAD 1041
EIZ78677.1 ---GEVAYVQHWRWQDRTRIADLFRC----G---ATVFVCGDGERMAPAVRETFVRIYRD 1027
EJW15291.1 ---QPKTYVQHLIKQQQHEVIGLLDQ----G---AIFYVCGDGSKMSAMSPDVEATLKQMYQD 1031
EJW16173.1 ---EVKTYVQHLIAQHAEQIIEILLDQ----G---AHLYICGDGSKMAPDVEATLRQAYQT 1031
EHQ58913.1 ---QPKTYVQHLMQQREMEIIIGLLDR----G---AQFYVCGDGSRMAPDVEAALRKCYQT 1029
EHQ59900.1 ---KPKTYVQDLIKRDAGKLLDNR----G---AKLYVCGDGSKMAPEVEETFRTAYRE 1029
EHB66924.1 ---VEKCYVQHLMKQDGSSLSSLEA----G---AKMYICGDGSRMAPDVEQTLIRSYRD 1030
AFH60445.1 ---QEKTYVQDLMKGDASLLIGLLDR----G---GKLYICGDGSRMAPDVEATLRRAYSE 1029
AEI42011.1 ---QEKTYVQDLMKGDASLLIGLLDR----G---GKLYICGDGSRMAPDVEATLRRAYSE 1029
ADO57681.1 ---QPKRYVQHVMNEGADTLIHLDE----G---AHLYVCGDGSRMAPDVENTLCAAYAD 1028
EGG32133.1 ---AEKCYVQHLMKQDGMLLSSLEG----G---AQMYICGDGSRMAPEVEQTLIRSYQE 1032

EGL17662.1 ---TPKTYVQHLMKENAAELIALLDK---G---GRLYVCGDGSRMAPDVVEQLMEAYAN 1030
ACX65034.1 ---AEKCYVQHLMKQDGMLLSSLLEG---G---AQMYICGDGSRMAPEVEQTLIQSYQE 1032
ACT11327.1 ---GEVTFVQHRWADRERIKTLFCN---G---GSLFVCGDGLRMVPEVRDMLLRIYRE 1030
AEA28016.1 ---DNRRYYQQAILDEQEDVRLLDQ---G---AHVYVCGNANTMAPAVRAALIEVHQG 1047
EFP68091.1 ---HPHRFVQHALWDAREAVWKAFDA---G---ATLYVCGDGRAMAPAVRDTLIRMHQA 1051
EGY61507.1 ---HPHRFVQHALWDAREAVWKAFDA---G---ATLYVCGDGRAMAPAVRDTLIRMHQA 1051
EIE85788.1 --KSPIKYVQHQILANAQQVWNMLYPT-DNNTKPAAVYICGSGA-MSRDVRRTFYNLAVS 1179
EIE92534.1 --KSPIRYVQHQILANAAKIWNLLYPAADDNSRPAAIYICGSGA-MSRDVRRTFYSMAIS 1182
BAE46296.1 ----- 510
BAH31604.1 ----- 466
EEN84644.1 ----- 466
EEN88978.1 ----- 550
ABG96413.1 ----- 498
BAH52971.1 ----- 465
EHI44575.1 ----- 500
EID73168.1 ----- 465
EHK83749.1 ----- 441
EJI96173.1 ----- 465
ABI79384.1 ----- 497
CAR47816.1 ----- 498
AEK26937.1 ----- 473
ABE39056.1 ---GPKTYVQHLIAAQKDRVFTLIEQ---G---AIYVCGDGGKMEPDVRAALMAIHRE 1045
ABD08340.1 ---GPKTYVQHLIAAQKDRVFTLIEQ---G---AIVYVCGDGGGRMЕPDVKAALCAIHRE 1042
CAM03474.1 ---GGQCFVQHRIAEEAGEVWALLES---G---ARVLVCGDGRHMAPGVREAFRGIYRE 1031
EJF54063.1 ---KEGQTYVQHRLWADRDAFWAAWQE---G---ANIYICGDGEGMAPAVRQCLMDIYQE 1038
AFC23737.1 ---KEGQTYVQHRLWADRDAFWAAWEA---G---AKIYICGDGEGMAPAVRQCLMDIYQE 1026
ADG98903.1 ----- 471
EGI54680.1 ---NGVAYVQDAIWDRTEIATLFRA---G---ARVLLCGDGEHMAPAVRDAFIRIYEА 1024
AEW97204.1 ---GDVRFVQHRIAEEADEVWSLLKG---G---ARVYVCGDGSRMAPGVREAFTALYAS 1038
CAJ88567.1 ----- 516
BAC68285.1 ---HPARFVQDAIVGAADTVWQAIQD---G---AYVYVCGDGRMMAPAVREALAAIYRK 1045
BAC75137.1 ----- 504
EDY51256.1 ---DGARYVQHRIAADSAELWDLLRS---G---AHIRVCGDGRMMAPAVRDAFRAIHRE 1041
EFG07822.1 ---DGARYVQHRIAADSAELWDLLRS---G---AHIRVCGDGRMMAPAVRDAFRAIHRE 1073
EHN78335.1 ----- 525
CAB66201.1 ----- 527
EGG48117.1 ----- 517
EFL20831.1 ---DGARFVQDRIAKESDEVWAALEA---G---GRVYICGDGRMMAPAVREAFMAIYRK 1045

EFL28515.1	---DGHRFVQHRIAADAAEIWRLLAE---	G---AAVYVCGDGARMAPGVREAFRSVYAA	1030
AEY93311.1	-----	-----	542
AEY93321.1	---NGAAFVQHRIAEEAGEVWELLGA---	G---ARVYVCGDGARMAPGVRAAFRTLYRE	1040
EFD71156.1	-----	-----	529
CBG67789.1	---DGVRFVQDRIGKESDEVWAALEA---	G---ARVHVCGDGRRMAPAVREAFLALYRE	1041
CBG68112.1	-----	-----	513
EFL10082.1	-----	-----	501
EFF88741.1	---NGARFVQDRIARESDEVRAALEA---	G---GRVYVCGDGRRMAPAVREAFLMAIHRE	1042
EDY58112.1	-----	-----	506
EFL36674.1	-----	-----	510
EFL36680.1	-----	-----	994
EFE65335.1	-----	-----	526
EGX54696.1	-----	-----	491
ACZ89135.1	---GEVTFVQHRVWRERDRVRLFRQ---	G---ATVYVCGDGRHMAPAVRENLVRIYQD	1027
ABD83817.1	---GPKTYVQHLLATQKARVWLIEQ---	G---AVIFVCGDGSKMEPDVKATLVQIYRD	1049
ADU39615.1	---ERKVYVQDLIREQAAAVWLLEA---	G---GVIYVCGDGSRMEPDVRRTLTDIARE	1046
EJL72014.1	---ERKVYVQDLIREQAADVWLLEA---	G---AVVYVCGDGSRMEPDVRRTLSLDARE	1046

sp P14779.2 CPXB_PRIM2	VHQ-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
ADF40088.1	VHQ-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
ADE70259.1	VHQ-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
AEN88827.1	VHE-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
KFN05180.1	VHQ-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
ACZ37122.1	VHQ-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
ADA57055.1	VYE-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
ADA57058.1	VHQ-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
ADA57059.1	VYE-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
ADA57061.1	VHQ-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
ADA57062.1	VYE-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
ADA57068.1	VHQ-V-----SEADARLWLQQLEE-KGRYAKDHWAG-----	1049
AAT62301.1	IHE-V-----SEQEARNWLDRLQE-EGRYGKDVWAGI-----	1065
AAM54108.1	-----GAGWLDALR-AGGRYATDVF-----	1005
EFQ83738.1	-----	505
EFL88452.1	EKD-V-----SGDEADAWFADMIA-KQDYVMDVWVSN-----	1066
BAF89518.1	GA-----VAELE-AGGRYLQDHWASS-----	1158
CBI43648.1	VHN-T-----DSKVSLNWLEQLQA-EGRYAKDHWAGV-----	1053
AEB22839.1	AHG-T-----DERQAQEWLLDLQT-KGIYAKDHWAGI-----	1061
EDT22025.1	IHE-V-----SEQEARNWLDRLQE-EGRYGKDVWAGI-----	1065
AFH84458.1	IHE-V-----SEQEARNWLDRLQE-EGRYGKDVWAGI-----	1073
ADP31197.1	VHG-V-----GEQEAQKWLGNLQT-NGMYAKDHWAGI-----	1061
ACP19384.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
ADL27534.1	-----	1034
ACO29732.1	IHQ-A-----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1065
EDX65100.1	IHQ-A-----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1065
EEK61456.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EEL16232.1	IHE-V-----SEQEARNWLDRVQE-EGRYGKDVWAGI-----	1073
EDZ53094.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EEL81346.1	-----	663
EEL87105.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1079
EEL75761.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1006
ACK88541.1	IHE-V-----SEQEARNWLDRLQE-EGRYGKDVWAGI-----	1065
EJQ05303.1	IHE-V-----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1065
EEK50040.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
AAS42149.1	IHE-V-----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1065
AAP10153.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EEK83466.1	IHE-V-----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1073

ACK63698.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1006
EJS57156.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJS56605.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJS68951.1	NHG-V----SEQEARNWLQLQR-EGRYGKDVWAGI-----	1064
EJQ10567.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJQ13433.1	IHE-V----SEQEARDWLERVQD-EGRYGKDVWAGI-----	1065
EJQ20399.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJQ30236.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJQ51278.1	NHG-V----SEQEARNWLQLQR-EGRYGKDVWAGI-----	1064
EEL10858.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EEL05393.1	IHE-V----SEQEARNWLDRVQE-EGRYGKDVWAGI-----	1079
EEK94080.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1068
EEK99882.1	IHE-V----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1068
EEK55784.1	IHQ-A----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1073
ADK05784.1	IHQ-A----SEQEARNWLDRLQE-EGRYGKDVWAGI-----	1065
AAU17340.1	IHE-V----SEQEARNWLDRLQE-EGRYGKDVWAGI-----	1065
EEL64394.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
AEW56259.1	IHQ-A----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1065
AFQ11690.1	IHE-V----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1065
EAL16831.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
ACK94296.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EDZ58760.1	IHE-V----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1065
EJV84218.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJJ69212.1	IHE-V----SEQEARNWLDRVQE-EGRYGKDVWAGI-----	1065
EJJ80339.1	IHE-V----SEKEARNWLDSLQH-EGRYGKDVWTGI-----	1065
EJV81602.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJQ95474.1	IHQ-A----SEQEARNWLDRLQE-EGRYGKDVWAGI-----	1065
EEK44229.1	IHE-V----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1073
EEK88560.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJR07451.1	IHE-V----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1062
EJR16542.1	FHE-V----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1065
BAL18840.1	IHE-V----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1065
EDX69960.1	IHE-V----SEQEARNWLDRLQE-EGRYGKDVWAGI-----	1065
ACM13462.1	IHE-V----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1065
EEK75631.1	IHE-V----SEQEARNWLERVQD-EGRYGKDVWAGI-----	1065
EEL25491.1	IHE-V----SEQEARNWLNRVQD-EGRYGKDVWAGI-----	1006
EEL21990.1	IHE-V----SEQEARNWLDSLQH-EGRYGKDVWTGI-----	1073
EEL33825.1	IHE-V----SEQEARNWLDSLQH-EGRYGKDVWTGI-----	1073

EEL44933.1	IHE-V-----SEQEARNWLDRLQE-EGRYGKDVWAGI-----	1073
EEL50167.1	NHG-I-----SEQEAKSWLDQLQR-EGRYGKDVWAGI-----	1143
EJR22930.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJP91231.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJR37623.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJR50635.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJR64551.1	IHE-V-----SEQEARNWLDRHDLQH-EGRYGKDVWTGI-----	1065
EJR75620.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJR82049.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJR83659.1	IHE-V-----SEQEARNWLNRVQD-EGRYGKDVWAGI-----	1065
EJR91135.1	-----	841
EJR97241.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJS05852.1	IHE-V-----SEQEARNWLERVQD-EGRYGKDVWAGI-----	1065
EDX58768.1	IHE-V-----SEQEARNWLDRVQE-EGRYGKDVWAGI-----	1065
AAU24352.1	VQG-A-----SREESQSWSLALLE-EGRYAKDVWDGGVSQHNVKADCIART	1074
ABY44122.1	IHE-V-----SEQEARNWLDRVQE-EGRYGKDVWAGI-----	1065
EDW23201.1	EKQ-C-----SKEAAENWLTTLAN-NNRYVKDVWS-----	1047
ABV62358.1	EKQ-C-----SKEDAENWLTTLAN-NNRYVKDVWS-----	1047
EIF12263.1	VHE-T-----DERQAQEWLQLQT-KGIYAKDVWAGI-----	1060
EIF14027.1	VHN-I-----DSKVSLWLEQLQA-EGRYAKDVWAGM-----	1053
EHL75405.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJD67577.1	VHE-T-----DERQAQEWLQLQT-KGIYAKDVWAGI-----	1060
EJD68347.1	VHN-T-----DSKVSLWLEQLQA-EGRYAKDVWAGM-----	1053
EFV73436.1	VQG-A-----SREESQSWSLALLE-EGRYAKDVWDGGVSQHNVKADCIART	1088
CBY93692.1	IHE-V-----SEQEARNWLERVQD-EGRYGKDVWAGI-----	1065
AFI27355.1	VHG-T-----GEQEAQNWLRLQD-TGMYAKDVWAGI-----	1061
AFI29229.1	EKG-A-----SQEESADWLQKLQD-QKRYVKDVWTGN-----	1054
EIL85422.1	EKQ-C-----AKETAEQWLTSLAN-DNRYVKDVWS-----	1047
ADV93500.1	EKG-A-----SQEESADWLQKLQD-QKRYIKDVWTGN-----	1054
ADV95715.1	VHG-T-----GEQEAQNWLRLQD-TGMYAKDVWAGI-----	1061
BAI84248.1	VHG-T-----GEQEAQNWLRLQD-TGMYAKDVWAGI-----	1061
EFG90288.1	EKG-A-----SEEEESADWLQKLQD-QKRYVKDVWTGM-----	1054
EFG91781.1	VHG-T-----GEEEAQNWLKHLQD-TGIYAKDVWSGV-----	1061
AEP85668.1	VHG-T-----GEQEAQNWLKHLQD-TGIYAKDVWSGI-----	1061
AEP87558.1	EKG-A-----SQEESADWLQKLQD-QKRYVKDVWTGM-----	1054
sp O08336.1 CYPB_BACSU	EKA-A-----SQEESAVWLQKLQD-QRYYVKDVWTGM-----	1054
sp O08394.1 CYPD_BACSU	VHG-T-----GEQEAQNWLRLQD-TGMYAKDVWAGI-----	1061
AEP89812.1	VHG-T-----GEQEAQNWLRLQD-TGMYAKDVWAGI-----	1061

AEP91702.1	EKG-A-----SQEESAEWLQKLQD-QRRYVKDVWTGM-----	1054
EHA31094.1	EKG-A-----SQEESADWLQKLQD-QKRYIKDVWTGN-----	1056
ADH07708.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EEM28177.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
AFQ14162.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EEM95517.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EEN02344.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
AFU13781.1	IHE-V-----SEQEARNWLDHLQH-EGRYGKDVWTGI-----	1073
EEM70897.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1073
ADY22413.1	IHE-V-----SEQEARNWLERVQD-EGRYGKDVWAGI-----	1065
EEM82895.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EEM52818.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EEM59126.1	IHE-V-----SEQEARNWLDRVQE-EGRYGKDVWAGI-----	1073
EEM47193.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1006
EEM76899.1	IHE-V-----SEQEARNWLDRVQE-EGRYGKDVWAGI-----	1073
EEM88909.1	IHQ-A-----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1073
EEM38196.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EEM21858.1	IHE-V-----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1068
ABK86139.1	IHQ-A-----SEQEARNWLDRLQD-EGRYGKDVWAGI-----	1073
EJQ37805.1	IHE-V-----SEQEARNWLDYLQH-EGRYGKDVWTGI-----	1065
CCF04242.1	VRE-T-----DERQAQEWL禄LQD-KGIYAKDVWAGI-----	1060
CCF05972.1	VHN-T-----DSKVSSNWLEQLQA-EGRYAKDVWAGV-----	1053
ABS73124.1	VRE-T-----DERQAQEWL禄LQD-KGIYAKDVWAGI-----	1060
ABS74786.1	VHN-T-----DSKVSLNWLEQLQA-EGRYAKDVWAGM-----	1053
EKE46398.1	VRE-T-----DERQAQEWL禄LQD-KGIYAKDVWAGI-----	1060
EKE48022.1	VHN-T-----DSKVSSNWLEQLQA-EGRYAKDVWAGV-----	1053
CCG48683.1	VHE-T-----DERQAQEWL禄LQD-KGIYAKDVWAGI-----	1060
AFJ60789.1	VHE-T-----DERQAQEWL禄LQD-KGIYAKDVWAGI-----	1067
AFJ62808.1	VHN-T-----DSKVSLNWLEQLQA-EGRYAKDVWAGM-----	1053
EEK66903.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1079
EJQ52935.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJS69574.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EJV63294.1	IHE-V-----SEQEARNWLDRVQD-EGRYGKDVWAGI-----	1065
EKF35778.1	VKQ-C-----EKDTAEQWLTSLEK-DNRYVKDVWS-----	1047
EGP08506.1	KTG-A-----DEAAAAAWIDSMT-QNRYVLDVWAGS-----	1082
BAL78328.1	KSG-S-----DAVASARWIEEMGA-KNRYVLDVWAGG-----	1077
BAC48147.1	KSG-S-----DTATAARWIEEMGA-TNRYVLDVWAGG-----	1078
BAL12135.1	KSG-S-----DAAAARWIEEMGA-KNRYVLDVWAGG-----	1078

CCE00185.1	CTG-S-----DAEAAANWIADLGA-TNRYVLDVWAGG-----	1081
EIG57609.1	KSG-S-----DAATAARWIEEMGA-KNRYVLDVWAGG-----	1077
EHR02046.1	KSG-G-----DAATAARWIEEMGA-KNRYVLDVWAGG-----	1077
EJN11211.1	-----	670
CCF15606.1	IHS-V-----SKEEAQAWLDKLQR-DEQYVKDVWTGA-----	1000
CCF12687.1	-----	898
ABB05850.1	TTG-E-----NDESASAWIDTMEREHGRYVADVFA-----	1063
EHP43606.1	QGG-M-----SEAAASDWLAGMVA-RGHYRQDVFN-----	1098
ABF10339.1	QGG-M-----TDKAASDWFGGLVA-QGRYRQDVFN-----	1064
CAJ95800.1	QGG-M-----TPEAASDWLADLVS-AGRYRQDVFN-----	1095
AEI79937.1	QGG-M-----TPEAASDWLAELVS-TGRYRQDVFN-----	1095
AFD27790.1	ETG-V-----TEADAQAWAEAFGRDSGRYAADVFA-----	1058
ABC62112.1	KKS-S-----DEASAKAWIDDLLVA-QDRYLLDVWVG-----	1070
EAQ27850.1	KTG-S-----TPAEAQS WVGD LIT-NERYSLDVWVG-----	1071
EIT84377.1	QYQ-T-----SHEEAQQWLTSLQQ-AERYVKDVWSN-----	1048
CCG43686.1	KYE-T-----TYEKAVEWLENLEL-EGRLAKDVWAGA-----	1055
ABX05160.1	ATG-S-----EQTAGMAWIAEIEQ-AGRYVADVFG-----	1053
BAJ96920.1	QSK-C-----TDEEGEEWMNNLERLSVRYVSDVFT-----	1047
GAB96874.1	ATG-A-----SEQDAVAVWEQREHGRYVSDVFA-----	1114
EFH80345.1	QTG-K-----DASEAQWHQVLVD-RNRYLVDVWGN-----	1074
EFH88481.1	KTG-K-----SSQEADQWLQEMST-QNRYLVDIWGTS-----	1080
EAW32450.1	AYK-KEGETISDKQAQVWLQEMEV-AGRFLVDAWA-----	1066
EIZ82104.1	ARA-V-----TPEEEAEAWADTVERETGRYVADVFA-----	1064
AEV70722.1	RTG-S-----DESRARDWLIGLVE-SDRYVEDVWAG-----	1053
EFC41452.1	VTN-C-----TKEEEAKRMSSM--DKRFAVDVFA-----	1075
ACV78954.1	RTG-----EAGEPWISELAA-AGRYVEDNWGAG-----	1096
ACV78964.1	KTG-Q-----SADDADTWLAGLRS-EKRFLEDIWGAG-----	1075
ACV81379.1	KLG-L-----GGAAAEDWLTDLRR-QHRYLEDIWGAR-----	1071
EIZ78677.1	AMQ-V-----SDDAANAWADQIEREHGRYVADVFA-----	1056
EJW15291.1	VHG-V-----GETKANRWLEQLGA-DGRYVKDVWAGRKA-----	1063
EJW16173.1	VHR-V-----HEQEAKQWLERLQA-EGKFAKDVSGL-----	1061
EHQ58913.1	VHG-V-----SEAEAVAWLSRLEA-EGRYVKDVWAGGKA-----	1061
EHQ59900.1	AHG-T-----TEESAQNWLLESQN-DGQYVKDVWAGL-----	1059
EHB66924.1	QHG-V-----SEEEAAWLSGLES-SGRYVKDVWAG-----	1059
AFH60445.1	IHG-V-----SGQEAADWLGLAR-ENRYAKDVWAGTAG-----	1061
AEI42011.1	IHG-V-----SGQEAA DWLGLAR-ENRYAKDVWAGTAG-----	1061
ADO57681.1	IHH-T-----SKEEAQQWLHDHLQQ-EKRYAKDVWTGI-----	1058
EGG32133.1	RHG-V-----NAEDAAWLSGLES-SGQYVKDVWAG-----	1061

EGL17662.1	IHQ-V-----SPDEARKWLDGLQT-DGRYAKDVWAGI-----	1060
ACX65034.1	RHG-V-----NAEDAAAWLSGLES-TGQYVKDVWAG-----	1061
ACT11327.1	ATG-S-----NETDAMLWADKLEREQGRYVVDMFI-----	1059
AEA28016.1	GDG-T-----ADTDGDAWLALR-AQRYLEDIWGESAVG-----	1080
EFP68091.1	RHG-S-----DLPTASDWLTAQMQ-SGRYRQDVFN-----	1079
EGY61507.1	RHG-S-----DLPTASDWLTAQMQ-SGRYRQDVFN-----	1079
EIE85788.1	FGVAA-----TEEEAEALILKLID-EKRYNEDVWG-----	1208
EIE92534.1	FGAAT-----NDKEAEALIIKLM-EKRYNEDVWG-----	1211
BAE46296.1	-----	510
BAH31604.1	-----	466
EEN84644.1	-----	466
EEN88978.1	-----	550
ABG96413.1	-----	498
BAH52971.1	-----	465
EHI44575.1	-----	500
EID73168.1	-----	465
EHK83749.1	-----	441
EJI96173.1	-----	465
ABI79384.1	-----	497
CAR47816.1	-----	498
AEK26937.1	-----	473
ABE39056.1	RSG-A-----DAAAASTWIDLGA-CNRYVLDVWASA-----	1075
ABD08340.1	RSG-A-----DATAAAAWIADLGA-RDRYVLDVWASV-----	1072
CAM03474.1	RTPGA-----DDASAHEWLQAMIA-GGCYVEDVYAG-----	1061
EJF54063.1	KAQ-A-----TEAQALDWLMQIAGKDKYFTDIFS-----	1067
AFC23737.1	KAQ-A-----TEAQALDWLMQIAGKDKYFTDIFS-----	1055
ADG98903.1	-----	471
EGI54680.1	ETD-T-----SHAEALAWAERIEREGVRYVADIYA-----	1053
AEW97204.1	RTG-A-----TAEQAAGWLADLVA-RGRYVEDVYAG-----	1068
CAJ88567.1	-----	516
BAC68285.1	HTG-S-----DDEAAQQWLAQLEA-DERYQQDVFA-----	1073
BAC75137.1	-----	504
EDY51256.1	HTG-G-----DEESADAWLSALMA-EDRYVEDVWAG-----	1070
EFG07822.1	HTG-G-----DEESADAWLSALMA-EDRYVEDVWAG-----	1102
HN78335.1	-----	525
CAB66201.1	-----	527
EGG48117.1	-----	517
EFL20831.1	YTG-A-----DDEEEAAAWLAVLIE-SGYVEDVWAG-----	1074

EFL28515.1	HTPGA-----DDAAAQRWLDALMA-EGRFVEDVYAG-----	1060
AEY93311.1	-----	542
AEY93321.1	RTPGA-----DEAAADRWLDTLVA-DGRYVEDVYAAG-----	1071
EFD71156.1	-----	529
CBG67789.1	NTG-A-----DDAEATAWLDALTE-SGHYVEDVWAG-----	1070
CBG68112.1	-----	513
EFL10082.1	-----	501
EFF88741.1	HTG-A-----GDEEAAAWLTGMIE-SGRYNEDVWAG-----	1071
EDY58112.1	-----	506
EFL36674.1	-----	510
EFL36680.1	-----	994
EFE65335.1	-----	526
EGX54696.1	-----	491
ACZ89135.1	ATG-S-----TGEDATAAAEVER-NGRYVSDVFG-----	1055
ABD83817.1	CTG-A-----DANGGAKWIADLGA-QNRYVLDVWAGG-----	1079
ADU39615.1	HG-----HDSNAWMDKMIA-DQRYVLDVWAGT-----	1072
EJL72014.1	HG-----HDSKAWMDKMIA-DQRYVLDVWAGS-----	1072