

1035

ATP7B GPVRVMRLLLGDVA-TLPLRKVLAVVGTA**EASSEHPLGVAVTKYCKEELGTETL-GYCT**
 ATP7A GTPVVNVQVKVLTESN-RISHHKILAIVGTA**ESENSEHPLGTAITKYCKQELDTETL-GTCI**
 CadA GVPVVTDFEVLDQ---VEEKELFSIITALE**EYRSQHPLASAIMKKAEQDNIPIYSN-VQVE**
 pacS GKPEVTDLVPLNG---DERELLRLAAIA**ERRSEHPIAEAIVKKALEHGIELG--EPE**
 CopA GKPQVVAVKTFAD---VDEAQALRLAA**AEQGSSHPLARAILDKAG--DMQLP--QVN**
 ZntA GKPRVTAIHPATG---ISESELLTAA**AEQGATHPLAQAIIVREAQVAELAIP--TAE**
 CCC2 GFMVVKKFLKDSNWGNVDEDEVLACIKATE**ESISDHPSKAIIRYCDGLNCNKALNAVVL**

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1093

ATP7B DFQAVPGCGIGCKVSNVEGIL**AHSERPLSAP-----ASHLNEAGSLPAEKDAVP**
 ATP7A DFQVVP**GCGISCKVTNIEGLLHKNNWNIEDNNIKNASLVQIDASNEQSSTSSSMIIDAQI**
 CadA EFTSIT**GRGIKGIVNGTT-----**
 pacS KVEVIAGE**EGVADG-----**
 CopA GFRTLRL**GLGVSGEAEGHA-----**
 ZntA SQRALV**GSGIEAQVNGER-----**
 CCC2 ESEYVL**GKGIIVSKCQVNG-----**

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1142

ATP7B **QTFSVLIGNREWLRRNGLT-ISSDVSDAMTDHEMKGQTAILVAIDGVLCGMIAI**
 ATP7A **SNALNAQQHKVLI**CNREWMIRNRGLV-INNDVNDFMTEHERKGRTAVLVAVDDELCGLIAI****
 CadA -----YYI**GSPKLFKELNVSDFSLGFENNWKILQNQGKTAMIIGTEKTIILGVIAV**
 pacS -----ILV**GNKRLMEDFGVA-VSNEVELALEKLEREAKTAVIVARNGRVEGIIAV**
 CopA -----LLL**GNQALLNEQQVG-TKAIEAEITAQASQGATPVLLAVDGKAVALLAV**
 ZntA -----VLICAA**GKHPADAFTGLINELES-----AGQTVVLLVVRNDVLGVIAL**
 CCC2 -----NTYDICIC**NEALILEDALK-----KSGFINSNVDQGNTVSYVSVNGHVFGLF**

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1195

ATP7B ADAVKQEAA**LAVHTLQSMGVDVVLI-**
 ATP7A ADTVKPEAA**ELAIHILKSMGLEVVLM-**
 CadA ADEVRET**SKNVIQKLHQLGKQTIML**
 pacS SDTLKESAKPAV**QELKRMGIKVGMI-**
 CopA RDPLRSDSVA**ALQRLHKAGYRLVML-**
 ZntA QDTLRADAATA**IASELNALGVKGVIL-**
 CCC2 NDEVKHDSYATV**QYLQRNGYETYMI-**

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