

PtCLE40: -----MR-TYSPLLPLLVFSTILLASHSSTCRHV-----SWTTY--EEKQIQNTKYPLPFPQYDLPG
PtCLE45: -----MRIAYSPLLPLLVFSTIMLSLHPSTCRHI-----SRATY--EEEQQLNTEFSLPLPQH-LPA
PtCLE41: -----MK-NKNSQL-FLIFLMVFLVLVHGTTICRDI-----KRISNGEIEQSGSETKHSSSTFLQA-LPA
PtCLE46: MGIGQCNLAAHLHIHCLFERQLQNAFLNKNILLQSTNNKPTIFPSALKSIFLSINLSGLYPTVFIMR-NKNPQL-FLIFLIVFLVLVHGTTICRDT-----KRSTSNGETEQGSKTKHSSMFLQA-LSS
PtCLE2: -----MDIDPFWITGGWLIITDFNFMAPTRKS-----PLCRITTKLQAMVFLDLILLIVPLLARPIDL-----SKKLTAASSPTGTGKSTTEMHPHESKYA
PtCLE15: -----MDIDPFWITGGWLIITDFNFMAPARQL-----SVCENTTKLQAMVFLDLILLIVPLLARPIDL-----SKKFTASSPSTRAKHFTTEIHPQESKYT
PtCLE12: -----MDIEPLWALGWFILSITCMATPKSQS-TIS-ETFKRSHHFFLLALLLFVFIILLTSPSKP-----INPTNTVASISIKRLLLESSEPASTMN
PtCLE38: -----MATPKQSTTISDHQCTCAHHFLLSALLLFIILLTTSTKP-----INPTNMAASISIKRLLLESSEPASTMN
PtCLE3: -----MAIKEHRFLLGTSRDE-----YIKKNDMEYFANRRHDMGNAKTVSKANI
PtCLE14: -----MASDVGSPLNTSLTTLFLLIMFHTTMANKDHRFLLLSTDRGG-----YFKKSLME-FSTTRPDMGNAKTVSKANV
PtCLE5: -----MKWKIAS-CLSRTLSSFSRSMQHFKPRMSRLTF-----VHLLLAWLLLVASQQRFSNNIKVQAVEA
PtCLE26: -----MITDNSVDKNTPYSSKPLSHKASPFICNTHPFKPKMSRLTFT-----IHLLLALLLVASQQHFSPSIKVQATIEA
PtCLE10: -----MKLFQLCLIVALLIVFGSSPRRSH-----AIRGSSSAPSTSQQVFR
PtCLE44: -----MKLFHLFLLALLIFFSSTPRSSH-----AARRSFAPSTSQQVFR
PtCLE6: -----MRQLMG-LRKELACLAIFFILLLLLETSS-----LPDRSARYGSSKNT--GST
PtCLE27: -----MG-LRKELACLAIFFILLLLLETSS-----VPDRSARHGSFKNT--GST
PtCLE18: -----MINRVTRKKEMGVLRRELACLALLLLLLIMSLLE-----TPCYANGYKGFSSVKGGS
PtCLE20: -----MKMPFSSTLLSSHGLLIALLLFFVISSTATGVPTSASLE-----TSSRNQHRFKSQHSHSGSFPHKSSRS
PtCLE32: -----MLGIKTPSLLSPSPFFSFLSKPLSLQHSPSPFDLSISLPTMKNPLSSTISFSSQYRLLLTLLFFVIS-TATRIPNYASLD-----TSSRNHRDSFKIQRYSPSSFRKSTSSY
PtCLE21: -----MALKI-SHTPCALLCLYLLLAFHELRFNFKSKINNN-----KDQINNIS-SSSISHPHFNMRKVLSYKF
PtCLE31: -----MALRI-FHTLCVVVFLSLLLVFHEL CNFKSKINST-----KDQINNISKSTFSYRPLTRKRVAKRF
PtCLE39: -----MNIAYKIPQYSFIIAWFLFLFFFHGWCFYFLNSNNI-----IHNNNNVH--VSPRTLNSRKNLVSVM
PtCLE11: -----MGTTTTLYPR-----LSF-FVLMMVLVNLQSSCHFI-----HSRTSE--EPGK--TVETDLSHFS
PtCLE13: -----MRIN-PNPR-----LSFIFLIILIAISQLSSCRHL-----HIKIGD--QNKQ--RAEADVTQLS
PtCLE23: -----MIFHRKVGVAAARGRRYSG-AKAAIIFLFWILLILAQLGLLIAF-----GHEETG--KLKVSLPKARFET-R
PtCLE29: -----MVSHHKVGVAAARARRYAGAARAAIIFLFWILLILAQLGVFLVV-----HEETD--KPKVSLPRKARFETGS
PtCLE22: -----MSFGSSRR--IMYSTLSVVLVFMVFLQIWCVGSNCKAGAIRLLQENDMAKFSGESGNNIPANNYSKEE
PtCLE30: -----MSFGSSRR--LMYSSLSVVLVFMVFLQIWCSDCNCKAGAIRLLQENGMEKFSKES-SDITKDNYSKEE
PtCLE4: -----MACPS--KFYSLLMLVLVLYMVEESYG--LNLQSLSLHGCGSTGQRCFYAE--AVSPVDVSKRVK
PtCLE25: -----MALSF--KFYSLLMLVLVLYMVEES--GCKTGEKCFYGD--AASLVDFKSRKV
PtCLE17: -----MFTSKNKVGYLLIL-----LSISAFDHG--VLGARNLKER--
PtCLE42: -----MFMSRSQVGLLVL-----LSISAFHHG--VVGARNLKEN--
PtCLE19: -----MVFCAH--RVILLIEGFIJAVQDEYVG-----LTSVELVLRHMQAGGTAPQS-QRVL
PtCLE33: -----MVFCSR--RVILLIEGFIJAVQPRKLYG-----LTSVEVILRHDRKAHTLPHS-QRSL
PtCLE24: -----MGGGES-CLSFKVLAAVATVMLVLLLVG-----ALESGAT-KWTEROTVLDLSIAQDDL
PtCLE28: -----MGCSGSSCSLKFVLLGGIATVVFVMLLVG-----ALESGATSKMTTSRLNSVQAT-QNDL
PtCLE47: -----MGRGGR--ILRALLGAVIFWGIWFLYVG-----ILPNHATTUMAIRVRPAAGTF--QHL
PtCLE7: -----MAN-----MRVFLFILLSLFFS-----TFETRSDIRISHRGDRSLIE--S
PtCLE36: -----MAN-----MRLLFFVLIMLLFS-----MFETRSDIHVAHRDRSLIE--T
PtCLE16: -----MAS-----LRCLVCLVILLISFA-----QSEARPLD-PSAVR-RNLIR--T
PtCLE35: -----MAC-----VRFYLCVMLILLISFA-----QSEARPLD-PSAVR-RNLIR--T
PtCLE43: -----MAN-----LKFVCLVLLFLTLA-----MSETRHLDQPYLGR-KNLAR--I
PtCLE50: -----MAN-----LKLWCLVLLFLTFS-----KSETRHLDQPYLGR-KNPAP--M
PtCLE8: -----MAT--LIKKIKILLSMIIIVMLVG-----SSDARFSRKFTSTP-KKFESSHI
PtCLE37: -----MAT--SMKMRILLSLILLMLVG-----SSDARFSRKFSIMP-EKLVSRHI
PtCLE48: -----MASRVASTSRAMILLMLVLSATFL-----TSEARILKGGQALQGNANNSRHL
PtCLE34: -----MKRKQILAYALLAFIADSDQCHYS-----AGIVVQAASVDTRLKNQAQPIILRSTR
PtCLE9: -----MHYQGS--PRFVLQKPMVILLLVFVSGD-----RKEETTIVNVHGLQNPQ
PtCLE49: -----MAN--IPTATRVLLVLFVFMMLMR-----FEAAPHTLTKELDKRLLSKVL
PtCLE1: -----MAFGDGLSRFSSISIALIILTFVLMPLVHSSRSS-----SLNIRFTNMACNLIMFAMHETVVAAGNR

PtCLE40: ISHTVK-SKDDK-----VNKLFGGSHAVCGPNPLH
PtCLE45: IAHTVKFNKDDK-----VQKLAYASHLVCGPNPLH
PtCLE41: IFKASE-SSNNK-----IKEVHSVSRLLVCGPNPLH
PtCLE46: IFKASE-SSTNN-----IKALHTVSRLLVCGPNPLH
PtCLE2: PPSSTTAAAAADMTSSTTTTVPPTPAASASNQKFAAAHEVCGPNRESN
PtCLE15: PPSRTTDDAAA--VTSSTTTTVSATP-VASARQQKAAHEVCGPNRESN
PtCLE12: LHPKHTQGTRT--SSSSSSPPSS--KSTRKKGAAHEVCGPNRISNR
PtCLE38: LHPKQTQDART--SSSSSSSSSS--KSTRTKFGAAHEVCGPNRISNR
PtCLE3: LTHPPSSRRR--GRFRAHRSPLP--WQEGVFNDSAEVCGPNRISNR
PtCLE14: LTHPPSSRRR--GRFRAHRSPLP--WQEGIFSASAEVCGPNRISNR
PtCLE5: VHFKNPAQLT--SKSHKGNVLPV--WVA--EKRIHKSQSGPNRVGHNPPSKQ
PtCLE26: VHFKLKPRQLT--SKLHVGDLDPN--WVA--EKRIHKSQSGPNRVGHNPPSKQ
PtCLE10: SPFSPPFAQR--AEFASQKRVFAGPNPLHKKR
PtCLE44: SPFRASPFAER--AKEFESQKRVFAGPNPLHKKR
PtCLE6: SOLMG-PVKSHG--GGLRGDDKGG--DATLGDENKRVFAGPNPLHKKR
PtCLE27: AQLTG-PVKSHG--GGLRGDDKEG--DATLGDENKRVFAGPNPLHKKR
PtCLE18: SELRNNPAMNSV--GLKRNANKDG--NEIFGADKRVFAGPNPLHKKR
PtCLE20: WCIRFORMNRR--HLGSLPPPLPPPIEIDPRYGEKLVGCGPNPLH
PtCLE32: MCNQFORMKGL--HLGP--PPPPPPPSIDPIYGEKLVGCGPNPLH
PtCLE21: DFTPFQKHQQHENPLDEEVHKKAARSEIDPRYGEKLVGCGPNPLH
PtCLE31: DFTPFQKHQQ--PMPEEEGHKKARSEIDPRYGEKLVGCGPNPLH
PtCLE39: DFTAIMSRHHQR--HMP--MHSOPTRGEIDPIYGEKLVGCGPNPLH
PtCLE11: WKFKEMVRERS--SKDE--SDTIYRVSRKRVFAGPNPLH
PtCLE13: WHFPAKASEGS--SKDEI--DDPVYGVSYRAVCGPNPLH
PtCLE23: FHAPPSQDQPL--DIDKGD--PDTVYEDDKIITHGPNPLH
PtCLE29: VHASPNDQQPV--NIDGGD--PDAVYEDDKIITHGPNPLH
PtCLE22: YFRKYFNERGN--TSHGFNKTEKGFEESK--RVVSCDPDLH
PtCLE30: HFRKYFNERAN--TSYGFNKTEKGFEENK--RVVSCDPDLH
PtCLE4: LVVLTTGLRG--PTG-STNGEKLIELRELAAVSGPDLHNGGSPKPRTP
PtCLE25: LVVSRGDRVGE--PTSNTSGNGEELIELRELAAVSGPDLHNGGSPKPRTP
PtCLE17: VEYTKKT--EGS--VNIQDQATVSAVSGPDLNLR
PtCLE42: VEAKERTQNE--KEGADSEDINGVAMNVRVSCDPDLNR
PtCLE19: KDVMQMGMDTK--KSAHASKTDFDRSQSN--KRAJFSCDPIHRRDRVYRKAIERNVHRASIIISVPQVEIINRQ
PtCLE33: KDVMQMGMDTK--KSAOANKTFDPSQTS--KRVRRSCDPIHRS
PtCLE24: RRRHE-ELIGR--EKLVINPELDLNFVNMKRVENCGPDLHRRAGNSRRPPGRA
PtCLE28: KDDHEKDVIGR--EKLVINSELDLNYMSKRVENCGPDLHRRAGNSRRPPGRA
PtCLE47: K-----LSGR--ESHLIRHMDLNYVS-KRVENCGPDLHNRKTQVSRQPQGS
PtCLE7: AQEMLKESTAR--HELTGFMESFLLSGCPDPRH
PtCLE36: SKEMVKESIVR--HEMTGGFMESFLLSGCPDPRH
PtCLE16: IRALGESE--AVGDQCAKRVSGCPDPAKH
PtCLE35: IRALGETETYN--VKQGNEMGIGRFSSKRVSGCPDPAKH
PtCLE43: LQELQEKSKQVD--VRFIDDGVDARSFYESKLLSGCPDPAKH
PtCLE50: LQELNEKSKQL--FEDDSDVTSYEPYKLLISGCPDPAKH
PtCLE8: LRELGYDMPKI--EYRYRR--WMLDTRVSGCPDPAKH
PtCLE37: LRLDGYEMSKV--EHYRR--WMQDTRVSGCPDPAKH
PtCLE48: LLELGFDSLKL--EHYRRLSTLSVADSLSGCPDPAKH
PtCLE34: YKLASWKSGTK--FKOTIHKASGFSIGRHRSSIHV
PtCLE9: PSSTEKQORLR--HSPDTFFSSKRVNASDPLNR
PtCLE49: NAKSRMEFHGR--RMSISESATDLSFEGNHEHSHPPGNP
PtCLE1: ARASAQDIHQ--YKITRMGKGASSLVTDESELEVITGPDPLHNNNPTRP