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042 11368 APECO78 BW2952 CE10 E2348/69 **EDL933** IAI1 IAI39 MG1655 REL606 S88 Sakai DNA SMS-3-5 TW14359 UMN026 UTI89 consensus

WAGRILDAVPLSSLTGVGAALSNKLAKINIHTVQDLILHIPIRYEDRTHLYPIGEILPGVYATVEGEVINGNISFGGRRMTCQISDGSGILTMRFFNF8AAMKNSLATGE 1

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<u>MKGRLLDAVPLSSLTGVGAALSNKLAKI</u>NLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGILTMRFFNFSAAMKNSLA<mark>A</mark>G <code>MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGILTMRFFNFSAAM</code>KNSLA $\overline{ ext{T}}$ G MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGILTMRFFNFSAAMKNSLA<mark>A</mark>G MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMT<u>CQISDGSGILTMRFFNF<mark>N</mark>AAMKNSLATG</u> MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFG<mark>S</mark>RRMMTCQISDGSGILTMRFFNF<mark>N</mark>AAMKNSLATG $\mathsf{MT}\mathsf{GRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFG\overline{\mathsf{G}}\mathsf{RRMMTCQISDGSGILTMRFFNF}\overline{\mathsf{S}}\mathsf{AAMKNSLATG}$ ${\sf MK}$ GRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGILTMRFFNFSAAMKNSLATG ${ t MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGILTMRFFNF{ t N}AAMKNSLATG$ MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGILTMRFFNF\AAMKNSLA<mark>A</mark>G MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVL<u>NCNISFGGRRMMTCQISDGSGILTMRFFNFSAAMKNSLA<mark>A</mark>G</u> MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMT<u>CQISDGSGILTMRFFNF<mark>N</mark>AAMKNSLATG</u> $\mathsf{MT}\mathsf{GRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGILTMRFFNF<math>\overline{\mathsf{S}}\mathsf{AAMKNSLATG}$ ${f MK}$ GRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGILTMRFFNF ${f N}$ AAMKNSLATG M<mark>T</mark>GRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGILTMRFFNFSAAMKNSLATG ${ t MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVLNCNISFGGRRMMTCQISDGSGILTMRFFNF{ t N}{ t AAMKNSLATG}$ <u>MKGRLLDAVPLSSLTGVGAALSNKLAKINLHTVQDLLLHLPLRYEDRTHLYPIGELLPGVYATVEGEVL</u>NCNISFGGRRMMTCQISDGSGILTMRFFNF<mark>N</mark>AAMKNSLATG

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consensus

RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMTLPEALRTLHRPPPTLQLSDLETGQHPAE

 $\mathtt{RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHPA$ RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHP*I* $\mathtt{RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHPA$ $\mathtt{RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHPA$ $\mathtt{RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHPA$ RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHP*A* RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHP*I* $\mathtt{RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHPA$ RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHP*A* $\mathtt{RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHPA$ $\mathtt{RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHPA$ RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHP*i* $\mathtt{RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHPA$ $\mathtt{RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHPA$ RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHP*A* ${ t RRVLAYGEAKRGKYGAEMIHPEYRVQGDLSTPELQETLTPVYPTTEGVKQATLRKLTDQALDLLDTCAIEELLPPELSQGMMTLPEALRTLHRPPPTLQLSDLETGQHPA$



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ILEELLAHNLSMLALRAGAQRFHAQPLSAND**T**LKNKLLAALPFKPTGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELL*A* QRRLILEELLAHNLSMLALRAGAQRFHAQPLSANDALKNKLLAALPFKPTGAQARVVAEIEHDMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELLA $\mathtt{QRRLILEELLAHNLSMLALRAGAQRFHAQPLSAND\mathbf{T}LKNKLLAALPFKPTGAQARVVAEIE\overline{R}DMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELL<math>A$ QRRLILEELLAHNLSMLALRAGAQRFHAQPLSANDALKNKLLAALPFKPTGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELL*A* QRRLILEELLAHNLSMLALRAGAQRFHAQPLSANDALKNKLLAALPFKPTGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRA<mark>V</mark>AHGKQVALMAPTELL*A* <u>QRRLILEELLAHNLSMLALRAGAQRFHAQ</u>PLSANDALKNKLLAALPFKPTGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELL*A* QRRLILEELLAHNLSMLALRAGAQRFHAQPLSANDALKNKLLAALPFK<mark>Q</mark>TGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELL*A* ${ t QRRLILEELLAHNLSMLALRAGAQRFHAQPLSANDALKNKLLAALPFK { t ar TGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELLA$ QRRLILEELLAHNLSMLALRAGAQRFHAQPLSAND**T**LKNKLLAALPFKPTGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELL*A* QRRLILEELLAHNLSMLALRAGAQRFHAQPLSAND<mark>T</mark>LKNKLLAALPFKPTGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELL*A* <u>QRRLILEELLAHNLSMLALRAGAQRFH</u>AQPLSANDALKNKLLAALPFKPTGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRA<mark>V</mark>AHGKQVALMAPTELL*A* QRRLILEELLAHNLSMLALRAGAQRFHAQPLSANDALKNKLLAALPFKPTGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRATAHGKQVALMAPTELL*A* QRRLILEELLAHNLSMLALRAGAQRFHAQPLSANDALKNKLLAALPFKPTGAQARV<mark>A</mark>AEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELLA $\mathtt{QRRLILEELLAHNLSMLALRAGAQRFHAQPLSANDALKNKLLAALPFKPTGAQARV\overline{V}AEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELL<math>A$ QRRLILEELLAHNLSMLALRAGAQRFHAQPLSANDALKNKLLAALPFKPTGAQARVVAEIERDMALD<mark>A</mark>PMMRLVQGDVGSGKTLVAALAALRAIAHGKQVALMAPTELL*A* QRRLILEELLAHNLSMLALRAGAQRFHAQPLSANDALKNKLLAALPFKPTGAQARVVAEIERDMALDVPMMRLVQGDVGSGKTLVAALAALRA<mark>V</mark>AHGKQVALMAPTELLA

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consensus

<u>EQHANNFRWFaPLGIEVGWLAGKQKGKARLaQQEAIASGQVQVIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY</u> F

EQHANNFRNWFAPLGIEVGWLAGKQKGKARLAQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY <u>EQHANNFRNWFAPLGIEVGWLAGKQKGK</u>ARLAQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY EQHANNFRNWFAPLGIEVGWLAGKQKGKARLAQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY <u>EQHANNFRNWFAPLGIEVGWLAGKQKG</u>KARLAQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY <u>EQHANNFRNWFAPLGIEVGWLAGKQKGK</u>ARLAQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY <u>EQHANNFRNWFEPLGIEVGWLAGKQKGKARL<mark>S</mark>QQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY</u> EQHANNFRNWF<mark>E</mark>PLGIEVGWLAGKQKGKARL<mark>S</mark>QQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY EQHANNFRNWFĀPLGIEVGWLAGKQKGKARLĀQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY <u>EQHANNFRNWFAPLGIEVGWLAGKQKGK</u>ARLAQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY <u>EQHANNFRNWFAPLGIEVGWLAGKQKGK</u>ARLAQQEAIASGQ^VQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY EQHANNFRNWFAPLGIEVGWLAGKQKGKARLAQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY EQHANNFRNWF<mark>E</mark>PLGIEVGWLAGKQKGKARL<mark>S</mark>QQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY EQHANNFRNWFĀPLGIEVGWLAGKQKGKARLĀQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY EQHANNFRNWFEPLGIEVGWLAGKQKGKARLSQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY <u>EQHANNFRNWFAPLGIEVGWLAGKQKGKARLAQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATPIPRTLAMTAY</u> EQHANNFRNWFAPLGIEVGWLAGKQKGKARLAQQEAIASGQVQMIVGTHAIFQEQVQFNGLALVIIDEQHRFGVHQRLALWEKGQQQGFHPHQLIMTATP

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consensus

<u>ADLDTSVIDELPPGRTPVTTVAIPDTRR;;DIIDRVrhachtegrqaywctlieeselleaqaaeatweelklalpelnvglvhgrvkpaekqavvasfkqgelhllvat</u>e

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ADLDTSVIDELPPGRTPVTTVAIPDTRRTDIIDRVIIHAC<mark>I</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELIILLVAT $\mathtt{ADLDTSVIDELPPGRTPVTTVAIPDTRRTDIIDRV\overline{R}HAC}^{oldsymbol{\mathsf{T}}}\mathtt{HAC}^{oldsymbol{\mathsf{M}}}\mathtt{TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGEL<math>oldsymbol{\mathsf{Q}}\mathtt{LLVAT}$ ADLDTSVIDELPPGRTPVTTVAIPDTRRTDIIDRVIIHAC<mark>I</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELIILLVAT ADLDTSVIDELPPGRTPVTTVAIPDTRR<mark>N</mark>DIIDRVRHAC<mark>M</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT ADLDTSVIDELPPGRTPVTTVAIPDTRR<mark>I</mark>DIIDRVRHAC<mark>M</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVM<mark>T</mark>SFKQGELHLLVAT <u>ADLDTSVIDE</u>LPPGRTPVTTVAIPDTRRTDIIDRVRHAC TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT ADLDTSVIDELPPGRTPVTTVAIPDTRRTDIIDRVRHAC<mark>I</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT ADLDTSVIDELPPGRTPVTTVAIPDTRR<mark>N</mark>DIIDRVRHAC<mark>M</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT ADLDTSVIDELPPGRTPVTTVAIPDTRRTDIIDRV<mark>H</mark>HAC TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT ADLDTSVIDELPPGRTPVTTVAIPDTRRTDIIDRV<mark>H</mark>HAC<mark>I</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT ADLDTSVIDELPPGRTPVTTVAIPDTRRTDIIDRVRHAC<mark>M</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT ADLDTSVIDELPPGRTPVTTVAIPDTRRTDIIDRVRHAC TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPA<mark>D</mark>KQAVMASFKQGELHLLVAT ADLDTSVIDELPPGRTPVTTVAIPDTRRTDIIDRVRHAC<mark>I</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT ADLDTSVIDELPPGRTPVTTVAIPDTRR<mark>N</mark>DIIDRVRHAC<mark>M</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT <u>ADLDTSVIDELPPGRTPVTTVAIPDTRRT</u>DIIDRVRHAC<mark>M</mark>TEGRQAYWVCTLIEESELLEAQAAEATWEELKLALPELNVGLVHGRMKPAEKQAVMASFKQGELHLLVAT

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TVIEVGVDVPNASLMI IENPERLGLAQLHQLRGRVGRGAVASHCVLLYKTPLSKTAQIRLQVLRDSNDGFVIAQKDLE IRGPGELLGTRQTGNAEFKVADLLRDQAMIPE[\$

TVIEVGVDVPNASLMIIENPERLGLAQLHQLRGRVGRGAVASHCVLLYKTPLSKTAQIRLQVLRDSNDGFVIAQKDLEIRGPGELLGTRQTGNAEFKVADLLRDQAMIPE <u>TVIEVGVDVPNASLMIIENPERLGLAQL</u>HQLRGRVGRGAVASHCVLLYKTPLSKTAQIRLQVLRDSNDGFVIAQKDLEIRGPĞELLGTRQTGNAEFKVADLLRDQAMIPE TVIEVGVDVPNASLMIIENPERLGLAQLHQLRGRVGRGAVASHCVLLYKTPLSKTAQIRLQVLRDSNDGFVIAQKDLEIRGPGELLGTRQTGNAEFKVADLLRDQAMIPE TVIEVGVDVPNASLMIIENPERLGLAQLHQLRGRVGRGAVASHCVLLYKTPLSKTAQIRLQVLRDSNDGFVIAQKDLEIRGPGELLGTRQTGNAEFKVADLLRDQAMIPE

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consensus