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|----------------------------------------------|----------------------------|-----------------------------|------------------------------------|--------|----|
| NTDB id 1410 SGL RS13950 WP 010873519.1      | MTSSSSSSKKRAVALRNYFSPFGNKL | VAGCHVDAEQLRQALVQVVKKTGRSIP | PEELKAVTGREISPELIRYKKNQLFET        | K      | 80 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....MLTNIVALLRQAELISATQ   | EQAVVTQVSASGTSVPEALL        | EL..SIFHAQELTE.....QLS             | 54     |    |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....MHSNLSLILRQKGLLTF     | SQESLIEQVKASGISMPEALL       | SS..GFFTSSELAE.....HLS             | 54     |    |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....MLTNLSTVLRLQACILTF    | SQESLIEQVKASGISMPEALL       | SS..GFFTSSELTE.....HLS             | 54     |    |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | .....MSVGLLRILVQNQVVTVE    | QAEHYNYSQAGKEYLPLMLFSD      | ..GVISPKSLAA.....LIA               | 53     |    |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | .....MALATEEYRLQIGQLLV     | LEKLLDKTKAIELHKLAAAEKIS     | LLQYIVKN..KILSAEQIAL.....TAA       | 62     |    |
| NTDB id 999877 ABFU09 RS05400 WP 057671826.1 | .....MSAVAANLVGITGIARRL    | VQDQALDEISARTAMDQAAA        | AKTPLPQWFSER..KLVSASQLAA.....ANA   | 63     |    |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....MSALHTSPKFTGFFRRL     | LVBEKHVSAAATMQTALDA         | AKRAKQDVTAYLIEE..VHLSPSLAE.....TIS | 62     |    |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....MSAF.TTPPKFSGFIRRL    | LVBEQYVNAQNMQQAELK          | AKKFKQDVPYLLDN..FSISPLTIAE.....TIS | 62     |    |
| consensus                                    | ***                        | *!* ** **** *               | *** ** *** *                       | *** ** |    |

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|----------------------------------------------|------------------------|----------------------|-------------------------|------------------------|--------|
| NTDB id 1410 SGL RS13950 WP 010873519.1      | VLYGVDSVDPEVAPIATQQMAE | LIGRFFPLITCRRFKFLPLA | QQEGDPPSVLVAMVDPDM      | AAQDELNRILRVKGFETRR    | 160    |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | HIFGLPETDLSRYDYAN..... | LCQQLGLRELITRYDALP   | IAKQC...NLLLAVSDPTLL    | QAEEFR...FATGLQVEL     | 123    |
| NTDB id 1293 VP RS12240 WP 005479695.1       | SIFGLSQPELSQYBYAS..... | LCQQLGLRELITRHNALPL  | HRT...STLLAVADPTNQ      | QAEDFR...FATGLQVEL     | 123    |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | SVFGLSCTSLNQYBYAS..... | LCQTLGLRLDITRHNALPL  | NRTS...STLILAVADPTN     | QAEDFR...FATGLQVEL     | 123    |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | RVFSYSILDLRHYPHR.....  | VLMGVLTETEQMVEFHC    | VPVFRG...DKVFAVSDPT     | QMPQIQKTV...SAAGIAVEL  | 122    |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | QNFQVPMLDINCIDVGT..... | IPVNLVNEKLIKRRHAM    | PLFSRG...TNLYLATDDPS    | KQASIKETQ...FHTGLNTHA  | 131    |
| NTDB id 999877 ABFU09 RS05400 WP 057671826.1 | VEFGMPLMDVSVFASQ.....  | NAVKLVESELQKQYQV     | PLPKRG...NRLFVGVSNPT    | QTRADDIK...FHTNLVVEP   | 132    |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | AEFAEPYFDLDVYDTSQ..... | IPKDLVDQKLLKHLRIL    | PLPIQRG...QILYVATSNPS   | NTEADAIR...FNSKLLVEP   | 131    |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | LEFGEPLLDLGVDPAL.....  | FLDKDKIDEKLIQKRY     | IRIMPLVHRG...HVLVYVATSN | PTNTEADAIR...FNSKLLVEP | 131    |
| consensus                                    | ***** ** *             | *                    | ** *** ** *!* ***       | *****!*** ****         | * ** * |

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| NTDB id 1410 SGL RS13950 WP 010873519.1      | LVVTQDDFNQLLEQYVAIREE | WAAQEKRDQERALDKLNDL   | TDIVGSIDMNLGEDKE      | .DVDNALDSNDANQAPVINLVNK | 239       |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | ALADHRAIQAATIRRLYGR   | SIQGAANQGKEISQDE..... | LANLVKVSDD...ELQSTED  | LSQDDSPVSRFINQ          | 188       |
| NTDB id 1293 VP RS12240 WP 005479695.1       | VLAADFRELSTAIRRLYGR   | SLSHEKSGLKEINQEE..... | LASLVDVAD...EIDNIED   | LSQDDSPVSRFINQ          | 188       |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | VLAADFRELSTAIRRLYGR   | SLGQKSGLKEINQDE.....  | LAGLVDICED...EIEINIED | LSQDDSPVSRFINQ          | 188       |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | VIVEDDQLAGLIDWVGS     | RSTSLQELGE.....CQEE   | ESHTLYIDNEEAEDGP      | VPVPRFIHK               | 178       |
| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | IVVETDKLSALIDNLTAKES  | QGLSEYVEDSGDL.....    | EGLEISADDED...QDID    | TATSVTDAPIVKFVNK        | 197       |
| NTDB id 999877 ABFU09 RS05400 WP 057671826.1 | IIVDEDQIRRTLEQWQAS    | NAALGSSLG.SDDDDI..... | GDLDVSAGDEDMGAGG      | ISGVDAKGDTPVVKFVNK      | 200       |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | VIVEHHKLEKVLGQHFA     | EESSFDF.....NDE.....  | EFDLVDNLDGPTAQE       | DEEAPQCDEAPIVKYINK      | 192       |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | IIVEHDKLERILLSEH      | VEETHFNF.....DTE..... | ELDLDEVPDHTTDD        | DEDDKLKDEAPIVKYINK      | 192       |
| consensus                                    | **** *                | ** ***                | *                     | ** ****                 | ***!***** |

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| NTDB id 1410 SGL RS13950 WP 010873519.1      | ILAKALQEGTSDIHVEPQEETLRIRFRKDGVLNQAFDPLPRKITPAVVARFKIMADMDIAERRSPQDGKIRRIYQ..GFK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | VLLDAVRKGASDIHFEPYENQYRIRLRCDGILVETQCP.ASHLSRRLAARIKILSKLDIAERRLPQDGRIKLRLSR.DTA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| NTDB id 1293 VP RS12240 WP 005479695.1       | ILLDAVRKGASDIHFEPYEKMVRVRLRCDGLIETQCP.PNHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNLQ.DTA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | ILLDAVRKGASDIHFEPYENMYRVRLRCDGLIETQCP.PSHLSRRLSARIKILSKLDIAERRLPQDGRIKLKLNLQ.DTA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| NTDB id 1110 NGFG RS09235 WP 003689817.1     | TLSDAIRSGASDIHFEFYEHNARIRFRVDGQLREVVCQPIAVRGQLASRIKVMRSRLDISEKRIPQDGRMQLTFQKGGKP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| NTDB id 1251 GCO85 RS07725 WP 011946523.1    | ILLDAIRQASDIHFEPYEREYRIRYRQDGLIHEVATPPASLSSRITARIKVMNSNLDISERRIPQDGGFKMKIKISK.SRA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| NTDB id 999877 ABFU09 RS05400 WP 057671826.1 | VLVDAIRRGASDIHFEPYEDDYRVRLRIDGLKKNVAKAPVKLNQRITAAARLKVMSQLDIAEKRVPPQDGRIKLNLSTK.TKQ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | LLIDAIRMGASDIHFEPYEKSrYRVRYRVQGLRQIANPPLQLANRLASRLKVMSQMDISEKRVPPQDGRIKLKLSTK.SKA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | LLIDAIRMSASDIHFEPYEKSrYRVRYRVQGLRLLIATPPLQLLATRLASRLKVMSQMDISEKRVPPQDGRIKLKMSK.SKT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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|----------------------------------------------|-----------------------------------------------------------------|-----|
| NTDB id 1410 SGL RS13950 WP 010873519.1      | SEMR <b>A</b> KRKSAL <b>T</b> CRTCAAEL <b>Q</b> QEWLDCPYCMTSRFS | 672 |
| NTDB id 1168 A1552VC RS11070 WP 000957200.1  | .....                                                           | 562 |
| NTDB id 1293 VP RS12240 WP 005479695.1       | .....                                                           | 561 |
| NTDB id 1401 DSB67 RS12665 WP 010643259.1    | .....                                                           | 561 |
| NTDB id 1110 NGFG RS09235 WP 003689817.1     | .....                                                           | 558 |
| NTDB id 1251 GC085 RS07725 WP 011946523.1    | .....                                                           | 574 |
| NTDB id 999877 ABFU09 RS05400 WP 057671826.1 | .....                                                           | 576 |
| NTDB id 1058 ABD1 RS01615 WP 001274986.1     | .....                                                           | 570 |
| NTDB id 1018 ACIAD RS01685 WP 004920473.1    | .....                                                           | 570 |
| consensus                                    |                                                                 |     |

-  non conserved
-  similar
-  ≥ 50% conserved