

|           |                                      |                                                                                      |    |
|-----------|--------------------------------------|--------------------------------------------------------------------------------------|----|
| NTDB id   | 1402 DSB67 RS12670 WP 010643257.1    | ..MKT.....IAPQLKNYRWKGINS SGKK.TSGNVLAMTEIEVVRERLDAQHTIKKKLKKGKSISFITK.ISHRVKGGKDIT  | 70 |
| NTDB id   | 1054927 BCS84 RS04225 WP 016793487.1 | MSSKS.....KQSCLKNYHWMKGINS SGKK.VSQGSLALTELEVREKLKEQHIQIKKKIKKKSISAITR.ITHRVKAKDIT   | 72 |
| NTDB id   | 1169 A1552VC RS11075 WP 000648511.1  | ..MKAT.....QTLPLKNYRWKGINSNGKK.VSGQMLAISEIEVRDKLKDQHIIKKKKLGKSVSLAR.LTHRVKSKDIT      | 71 |
| NTDB id   | 1112 NGFG RS09215 WP 003689811.1     | ..MAKNGGFSLFAKKEKRIFIEGRHSASDKLVNGEVSAFTEEARKKLLAKRGIRPLQITRV....KTSSKRKITQEDIT      | 73 |
| NTDB id   | 1113 AAA85695.1 219..1451( )         | ..MAKNGGFSLFAKKEKRIFIEGRHSASDKLVNGEVSAFTEEARKKLLAKRGIRPLQITRV....KTSSKRKITQEDIT      | 73 |
| NTDB id   | 1252 GCO85 RS07730 WP 011213805.1    | ..MDKN.....SPPLLTFFHYQGINKAGQK.MEGDIQARSLATIAKADLRKQGIVTNKVVKRRKPLFDR.KNKKITQADIT    | 70 |
| NTDB id   | 1198 PSJM300 03950 AFN76868.1        | ..MAQQ.....AIKNSVFTEGLDRQGAQ.IKGELSGVSPALVKAQLRKQGINPTQKVRKKSISLFS..AGKKIKPMDIA      | 69 |
| NTDB id   | 1016 ACIAD RS01680 WP 004920476.1    | ..MAAKK.....TQVMVPVFAYEGVDKRGIK.LKGELPARNMALAKVTLRKQGINTIRETKRKNIFEGLLKKVKPLDIA      | 72 |
| NTDB id   | 1059 ABD1 RS01610 WP 000279215.1     | ..MAVKK.....AQMMPTFAYEGVDKRGKGVK.IKGELPAKNMALAKVTLRKQGVTVRNIRETKRKNILEGLFKKKVVTTLDIT | 72 |
| consensus |                                      | *** * ** * *** ! * * * ! * ! * * * * * * * * * * * * * * * * *                       |    |

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| NTDB id   | 1402 DSB67 RS12670 WP 010643257.1    | TFTRQLATMLMTGVPITVQALKLVSENHKKAEKMSILMSVTTRAVEAGTPMSKAMRTASTHFDPDYTDLIATGEQSGNLSQV     | 150 |
| NTDB id   | 1054927 BCS84 RS04225 WP 016793487.1 | VLTFRQLATMLATGVPIVQAIIKLVSNDHRKAEMKSILSHICKGVEAGTPIISKAMRTASRHFDLDLYTDLVATGELSGNLAAQV  | 152 |
| NTDB id   | 1169 A1552VC RS11075 WP 000648511.1  | ILTFRQLATMLTTGVPIVQALKLVGDNHRKAEMKSILAQTITKSVVEAGTPLSKAMRTASAHFDTLTVYDVLVETGEMSGNLPVEP | 151 |
| NTDB id   | 1112 NGFG RS09215 WP 003689811.1     | VFTFRQLSTMIAKGLPLMQAFEIVARGHGNNPSMTEMLMEIRGGVEQGSSLSRAFSNHPKFYDRFYNLVAAGETGGVLES       | 153 |
| NTDB id   | 1113 AAA85695.1 219..1451( )         | VFTFRQLSTMIAACGLPLMQAFEIVARHGNGNSMTEMLMEIRGGVEQGSSLSRAFSNHPKFYDRFYNLVAAGETGGVLES       | 153 |
| NTDB id   | 1252 GCO85 RS07730 WP 011213805.1    | VFSRRLATMTESGIPLVQAFDIVAKGQSNKRLKDLETIKHDITETGLTLAESLIKHPHYLFNELFCNLVDAGEKSGSLDIM      | 150 |
| NTDB id   | 1198 PSJM300 Q3950 AFN76868.1        | LFTFRQMATMMKAGVPLIQSFDIIGEGFDNPNMRKLVDLLKQEVAAGNSFASSLRKRPQYFDDLYCNLVDSGEQSGSLETL      | 149 |
| NTDB id   | 1016 ACIAD RS01680 WP 004920476.1    | IFTFRQLATMMKAGVPLVQAFEIVAEGLENPAMRDVVVLGLKNEVEGGNTIFAGALRKYPQYFDNFLFCSLIESGEQSGSLEIM   | 152 |
| NTDB id   | 1059 ABD1 RS01610 WP 000279215.1     | IFTFRQLATMMKAGVPLVQAFEIVAEGLENPAMREVVVLGIKEGVEGGSTFASALRKYPQHFDNFLFCSLVESGEQSGALETM    | 152 |
| consensus |                                      | *****!*****?*****!*****!*****!*****!*****!*****!*****!*****!*****!*****!               |     |

[illegible]

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|-----------|--------------------------------------|-----------------------------------------------------------------------------------------|-----|
| NTDB id   | 1402 DSB67 RS12670 WP 010643257.1    | LSFVSLISGKIMSQRSDSFRLLAARSSLRVPILGPVLSKAAIAKFSTRLATSFSAAGIPILTALKTTSKTSGNMHYQLAI        | 310 |
| NTDB id   | 1054927 BCS84 RS04225 WP 016793487.1 | LGI GATTLVVHQLCQRSYSIRLSASRLVLRFPVLGSVMAKASIAKFSTRLSTFSFGIPILMSLKTTAKTAGNLHYESAI        | 312 |
| NTDB id   | 1169 A1552VC RS11075 WP 000648511.1  | IATAAAIFGLKALRKSISFIQRLKTSRLGLKFPITIGNVLAKASIAKFSTRLATSFSAAGIPILASLKTAKTSGNVHFETA I     | 311 |
| NTDB id   | 1112 NGA FG RS09215 WP 003689811.1   | IALGFAYIGFLKLAKNSIKIQRMDAILLRMPIFGDIVRKGTIARWGRTTATLFAAGVPLVDLDSTAGAAGNLIYEEAT          | 313 |
| NTDB id   | 1113 AAA85695.1 219..1451( )         | IALGFAYIRFLKLKARSIKIQRMDAILLRMPIFGDIVRKGTIARWGRTTATLFAAGVPLVDLDSTAGAAGNLIYEEAT          | 313 |
| NTDB id   | 1252 GC085 RS07730 WP 011213805.1    | GALCGVVVSFFYAKNHSLEFAQTIDRVMLKLPVIGPILEKAAIARFARTLSITFAAGLPLVEALKSVAGATGNIYYAKAT        | 310 |
| NTDB id   | 1198 PSJM300 03950 AFN76868.1        | ACFVCAAYAFKQAHTREKFRNWFDRLMLKVPPVVGDI LYKSSVARFARTLSTTFAAGVPLVDALDSVAGATGNVVFERSAT      | 309 |
| NTDB id   | 1016 ACIAD RS01680 WP 004920476.1    | LVI GAATACGLEARKRSKRFRDQLDLRLVLRPLVIGDLVYKAIIARYSRTRLATTFAAGVPLIDLALSTAGATNNNTVYEQAV    | 312 |
| NTDB id   | 1059 ABD1 RS01610 WP 000279215.1     | I AIGAVIAA FLEAKKRSKKFRDGLDKL LKLP IFGD LVY KAI IARYSRTRLATTFAAGVPLIDALESTAGATNNVIYEKAV | 312 |
| consensus |                                      | * * * * *                                                                               | !   |

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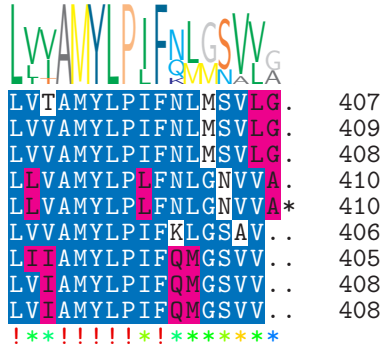
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NTDB id 1059 ABD1 RS01610 WP 000279215.1  
consensus



☐ non conserved  
☒ similar  
☒ ≥ 50% conserved