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|                                              |                                                                                     |    |
|----------------------------------------------|-------------------------------------------------------------------------------------|----|
| NTDB id 425 SGO RS10525 WP 012131081.1       | ..MKNSSNFEKKTLLQVFIVLLVGFIGGVACTWGFSYFSTPHSATMNNKKTATTVTTSYKNSNSTTEAVDKVKDAVVSVIT   | 78 |
| NTDB id 539 SM12261 RS09395 WP 000681587.1   | ..MKHLKTFYKKGFQLLVVIVISFFSGALGSFSINQLTQKSSTEST..SNNNSTITQTAYKKNENSTTQAVNKVKDAVVSVIT | 77 |
| NTDB id 256 KZH43 RS10270 WP 000681597.1     | ..MKHLKTFYKKWFQLLVVIVISFFSGALGSFSITQLTQKSSVNM..SNNNSTITQTAYKKNENSTTQAVNKVKDAVVSVIT  | 77 |
| NTDB id 215 SPD RS10945 WP 000681597.1       | ..MKHLKTFYKKWFQLLVVIVISFFSGALGSFSITQLTQKSSVNM..SNNNSTITQTAYKKNENSTTQAVNKVKDAVVSVIT  | 77 |
| NTDB id 181 SPR RS10425 WP 000681597.1       | ..MKHLKTFYKKWFQLLVVIVISFFSGALGSFSITQLTQKSSVNM..SNNNSTITQTAYKKNENSTTQAVNKVKDAVVSVIT  | 77 |
| NTDB id 145 SP RS11450 WP 000681597.1        | ..MKHLKTFYKKWFQLLVVIVISFFSGALGSFSITQLTQKSSVNM..SNNNSTITQTAYKKNENSTTQAVNKVKDAVVSVIT  | 77 |
| NTDB id 999050 ABD412 RS10270 WP 002994926.1 | .....MPSMKHILKSLSILLIGFLGCLIAIIFNMLYPHSPS.KINSGKATTSNMVFNNNTTNNTTKAVKAVQNAVVSVIN    | 73 |
| NTDB id 381 SMU RS09890 WP 002262650.1       | MNNTKSPFLKWI.PFLVIFLTFILGVISLIFNWTG.NKS.FSNNGKTTVSNVIVDTKSNNTKAVKNVKTIVVSVIN        | 77 |
| consensus                                    | *****!*!!!!*****!*!!!!*****!*****!*****!*****!*****!*****!*****!                    |    |

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| NTDB id 425 SGO RS10525 WP 012131081.1       | YSESNDAIF.....DN...NNSGNENDQVASEGSGVIYKDKDYAYLVNTNHVINGASKVDIRLSDGTKVPGEIVGA    | 148 |
| NTDB id 539 SM12261 RS09395 WP 000681587.1   | YSANRQNSVF.....GN...DDTDTDSQQISSEGSGVIYKNDKEAYIVTNNHVINAGASKVDIRLSDGTKVPGEIVGA  | 147 |
| NTDB id 256 KZH43 RS10270 WP 000681597.1     | YSANRQNSVF.....GN...DDTDTDSQRISSSEGSGVIYKNDKEAYIVTNNHVINAGASKVDIRLSDGTKVPGEIVGA | 147 |
| NTDB id 215 SPD RS10945 WP 000681597.1       | YSANRQNSVF.....GN...DDTDTDSQRISSSEGSGVIYKNDKEAYIVTNNHVINAGASKVDIRLSDGTKVPGEIVGA | 147 |
| NTDB id 181 SPR RS10425 WP 000681597.1       | YSANRQNSVF.....GN...DDTDTDSQRISSSEGSGVIYKNDKEAYIVTNNHVINAGASKVDIRLSDGTKVPGEIVGA | 147 |
| NTDB id 145 SP RS11450 WP 000681597.1        | YSANRQNSVF.....GN...DDTDTDSQRISSSEGSGVIYKNDKEAYIVTNNHVINAGASKVDIRLSDGTKVPGEIVGA | 147 |
| NTDB id 999050 ABD412 RS10270 WP 002994926.1 | YQDNFSSLSNPTYTKLFGGRSKFNKDAELSIFSEGSGVIYKDGNSAYVVTNNHVIDGAKRIEILMADGSKVVGELVGA  | 153 |
| NTDB id 381 SMU RS09890 WP 002262650.1       | YQKTDNSY.....YNYDSGSQEKNKSEDLGLVYEGSGVIYKKGDSAYIVTNNHVKDAEKLIMMANCKKVVGKLVGS    | 152 |
| consensus                                    | !**************!*!!!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*                |     |

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| NTDB id 425 SGO RS10525 WP 012131081.1       | DTFSDIAVVKISSEKVTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGVSSSLNRNVSLKSEDGQAISTKAIQTD | 228 |
| NTDB id 539 SM12261 RS09395 WP 000681587.1   | DTFSDIAVVKISSEKVTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGVSSSLNRNVSLKSEDGQAISTKAIQTD | 227 |
| NTDB id 256 KZH43 RS10270 WP 000681597.1     | DTFSDIAVVKISSEKVTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGVSSSLNRNVSLKSEDGQAISTKAIQTD | 227 |
| NTDB id 215 SPD RS10945 WP 000681597.1       | DTFSDIAVVKISSEKVTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGVSSSLNRNVSLKSEDGQAISTKAIQTD | 227 |
| NTDB id 181 SPR RS10425 WP 000681597.1       | DTFSDIAVVKISSEKVTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGVSSSLNRNVSLKSEDGQAISTKAIQTD | 227 |
| NTDB id 145 SP RS11450 WP 000681597.1        | DTFSDIAVVKISSEKVTVAEFGDSSKLTVGETAIAIGSPLGSEYANTVTQGVSSSLNRNVSLKSEDGQAISTKAIQTD | 227 |
| NTDB id 999050 ABD412 RS10270 WP 002994926.1 | DTYSDIAVVKISSDKIKTVAEFADSTKLNVGVAIAIGSPLCTGYANSVTQGVSSSLRTVTILKNENGETVSTNAIQTD | 233 |
| NTDB id 381 SMU RS09890 WP 002262650.1       | DTYSDIAVTKISSKYVTTVAEFANSDKIKVGEPAIAIGSPLGSDYANSVTEGIVSSSLRTVTSQENGETISTNAIQTD | 232 |
| consensus                                    | !*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*  |     |

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| NTDB id 425 SGO RS10525 WP 012131081.1       | AINPGNSGGPLVNIQQQVIGITSSKIAATNNG....S TSVEGMGFAIPSNDVVNIEQLEKNGKVTRPALGIQMVNLSL | 304 |
| NTDB id 539 SM12261 RS09395 WP 000681587.1   | AINPGNSGGPLINIQQQVIGITSSKIAATNNG....GTSVEGLGFAIPANDAINIEQLEKNGKVTRPALGIQMVNLSNI | 301 |
| NTDB id 256 KZH43 RS10270 WP 000681597.1     | AINPGNSGGPLINIQQQVIGITSSKIAATNNG....GTSVEGLGFAIPANDAINIEQLEKNGKVTRPALGIQMVNLSNV | 301 |
| NTDB id 215 SPD RS10945 WP 000681597.1       | AINPGNSGGPLINIQQQVIGITSSKIAATNNG....GTSVEGLGFAIPANDAINIEQLEKNGKVTRPALGIQMVNLSNV | 301 |
| NTDB id 181 SPR RS10425 WP 000681597.1       | AINPGNSGGPLINIQQQVIGITSSKIAATNNG....GTSVEGLGFAIPANDAINIEQLEKNGKVTRPALGIQMVNLSNV | 301 |
| NTDB id 145 SP RS11450 WP 000681597.1        | AINPGNSGGPLINIQQQVIGITSSKIAATNNG....GTSVEGLGFAIPANDAINIEQLEKNGKVTRPALGIQMVNLSNV | 301 |
| NTDB id 999050 ABD412 RS10270 WP 002994926.1 | AINPGNSGGPLINIEGQVIGINSSKISSPTGSGNGMSGAVECIGFAIPSTDVIKIKQLETNCEVTRPALGISMVNLSN  | 313 |
| NTDB id 381 SMU RS09890 WP 002262650.1       | AINPGNSGGPLINIKGQVIGINSSKIASNSN..SGVAVECMGFAIPSNDVVSLINQLENGCEVTRPALGISMANLSEA  | 310 |
| consensus                                    | !!!!!!!*!*!*!!!!!!*!!!!****!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*!!!!*        |     |

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consensus



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NTDB id 381 SMU RS09890 WP 002262650.1  
consensus



397  
393  
393  
393  
393  
393  
407  
402

non conserved  
 similar  
 ≥ 50% conserved