



logo

|                                              |         |       |       |         |            |         |        |          |        |         |         |        |        |        |       |       |
|----------------------------------------------|---------|-------|-------|---------|------------|---------|--------|----------|--------|---------|---------|--------|--------|--------|-------|-------|
| NTDB id 56567 BSU6051 RS08935 WP 003231847.1 | LKETEA  | VILE  | ..... | RVGEFF  | YGYDD      | ..      | TSLVKE | LSIACKEK | GITIS  | AAESFT  | CGLFSEW | ITDHS  | GASKL  | FAGGV  | VCYT  | 311   |
| NTDB id 124 BSU 16930 NP 389575.2            | LKETEA  | VILE  | ..... | RVGEFF  | YGYDD      | ..      | TSLVKE | LSIACKEK | GITIS  | AAESFT  | CGLFSEW | ITDHS  | GASKL  | FAGGV  | VCYT  | 311   |
| NTDB id 462 GPW51 RS00385 WP 012774894.1     | LNQLEED | ILQHD | ....  | KLADYFY | AYGED      | NSLVKT  | VATRL  | AEKRQT   | IAIVE  | QGTG    | LLQAE   | LSLAL  | ADQPY  | FSGK   | VVGQ  | 308   |
| NTDB id 412 SMU RS09535 WP 002262393.1       | LDKLEKK | ITID  | ....  | NLADYFY | GYGEEN     | SLPQV   | VFDLL  | LKEKGK   | TTIA   | ESLTAGL | FQAR    | ADFA   | GASD   | IFKGGF | ITYS  | 308   |
| NTDB id 170 SP RS09755 WP 000642718.1        | LDILENQ | ILDC  | QTFEG | ISLRD   | FCYGYGEETS | SLASIV  | VEELKR | QGKTI    | AAAAES | LTAGL   | FQATV   | ANFSGV | VSSIF  | KGGF   | VITYS | 312   |
| NTDB id 280 KZH43 RS08670 WP 000642700.1     | LDILENQ | ILDC  | QTFEG | ISLRD   | FCYGYGEETS | SLASIV  | VEELKR | QGKTI    | AAAAES | LTAGL   | FQATV   | ANFSGV | VSSIF  | EGGF   | VITYS | 312   |
| NTDB id 205 SPR RS08830 WP 000642700.1       | LDILENQ | ILDC  | QTFEG | ISLRD   | FCYGYGEETS | SLASIV  | VEELKR | QGKTI    | AAAAES | LTAGL   | FQATV   | ANFSGV | VSSIF  | EGGF   | VITYS | 312   |
| NTDB id 239 SPD RS09270 WP 000642701.1       | LDILENQ | ILDC  | QTFEG | ISLRD   | FCYGYGEETS | SLASIV  | VEELKR | QGKTI    | AAAAES | LTAGL   | FQATV   | ANFSGV | VSSIF  | EGGF   | VITYS | 312   |
| NTDB id 538 SMSK321 RS11060 WP 000642686.1   | LDILENQ | ILGR  | QTFEG | ISLRD   | LCYGYGEE   | ASLASIV | VEELK  | QGKTI    | TAAES  | LTAGL   | FQATV   | ADFS   | GASSIF | KGGF   | VITYS | 312   |
| NTDB id 510 SM12261 RS08320 WP 000642690.1   | LDILENQ | ILGR  | QTFEG | ISLRD   | LCYGYGEE   | ASLASIV | VEELKR | QGKTI    | TAAES  | LTAGL   | FQAR    | VADFS  | GASSIF | KGGF   | VITYS | 312   |
| consensus                                    | !***!   | ***!  | *~    | *****   | *****      | !!      | *****  | !!       | *****  | *****   | ***!!   | *****  | *****  | ***!   | !!    | ***** |

logo

|                                              |            |          |       |        |             |          |        |       |         |        |       |        |        |          |       |     |
|----------------------------------------------|------------|----------|-------|--------|-------------|----------|--------|-------|---------|--------|-------|--------|--------|----------|-------|-----|
| NTDB id 56567 BSU6051 RS08935 WP 003231847.1 | NDVKKQNVLG | VKKETLDR | FC    | AVSKEC | ASELAKGVQKL | TGSDIGIS | FTG    | VAGPD | AQEGHEP | GHVFIG | IS    | ANGKE  | EV     | HEFHFA   | 391   |     |
| NTDB id 124 BSU 16930 NP 389575.2            | NDVKKQNVLG | VKKETLDR | FC    | AVSKEC | ASELAKGVQKL | TGSDIGIS | FTG    | VAGPD | AQEGHEP | GHVFIG | IS    | ANGKE  | EV     | HEFHFA   | 391   |     |
| NTDB id 462 GPW51 RS00385 WP 012774894.1     | LGIES      | .....    | ..... | .....  | .....       | .....    | .....  | ..... | .....   | .....  | ..... | .....  | .....  | .....    | 370   |     |
| NTDB id 412 SMU RS09535 WP 002262393.1       | TEEKARMLG  | IPFEDL   | QL    | HGVVSA | FTAEKMAERS  | QRQLTQ   | ADLAIS | LTG   | VAGPDS  | LEGQ   | PAGTV | FIGL   | SSSKRT | MAIKVL   | IG    | 388 |
| NTDB id 170 SP RS09755 WP 000642718.1        | LEEKSRMLD  | DIPAKN   | LEEH  | GVVSE  | FTAQKMAEQ   | ARSKTQ   | SDFGIS | LTG   | VAGPDS  | LEGHPV | GTV   | FIGLAQ | DQGTE  | VIKVNIG  | 392   |     |
| NTDB id 280 KZH43 RS08670 WP 000642700.1     | LEEKSRMLD  | DIPAKN   | LEEH  | GVVSE  | FTAQKMAEQ   | ARSKTQ   | SDFGIS | LTG   | VAGPDS  | LEGHPV | GTV   | FIGLAQ | DQGTE  | VIKVNIG  | 392   |     |
| NTDB id 205 SPR RS08830 WP 000642700.1       | LEEKSRMLD  | DIPAKN   | LEEH  | GVVSE  | FTAQKMAEQ   | ARSKTQ   | SDFGIS | LTG   | VAGPDS  | LEGHPV | GTV   | FIGLAQ | DQGTE  | VIKVNIG  | 392   |     |
| NTDB id 239 SPD RS09270 WP 000642701.1       | LEEKSRMLD  | DIPAKN   | LEEH  | GVVSE  | FTAQKMAEQ   | ARSKTQ   | SDFGIS | LTG   | VAGPDS  | LEGHPV | GTV   | FIGLAQ | DQGTE  | VIKVNIG  | 392   |     |
| NTDB id 538 SMSK321 RS11060 WP 000642686.1   | LEEKSRMLD  | DIPAKN   | LEEH  | GVVSE  | FTAQKMAEQ   | ARSKTQ   | SDFGIS | LTG   | VAGPDS  | LEGHPV | GTV   | FIGLAQ | EHGHT  | KVIKVNIG | 392   |     |
| NTDB id 510 SM12261 RS08320 WP 000642690.1   | LEEKSRMLD  | DIPAKN   | LEEH  | GVVSE  | FTAQKMAEQ   | ARSKTQ   | SDFGIS | LTG   | VAGPDS  | LEGHPV | GTV   | FIGLAQ | EQGTE  | VIKVNIG  | 392   |     |
| consensus                                    | *****      | *        | ***** | *****  | *****       | *****    | *****  | ***** | *****   | *****  | ***** | *****  | *****  | *****    | ***** |     |

logo

|                                              |      |       |        |         |        |            |       |       |
|----------------------------------------------|------|-------|--------|---------|--------|------------|-------|-------|
| NTDB id 56567 BSU6051 RS08935 WP 003231847.1 | GSRT | .GIR  | KRGAKY | GCHLILK | LLEQK  | .....      | 416   |       |
| NTDB id 124 BSU 16930 NP 389575.2            | GSRT | .GIR  | KRGAKY | GCHLILK | LLEQK  | .....      | 416   |       |
| NTDB id 462 GPW51 RS00385 WP 012774894.1     | GYSW | QYLR  | QL.... | ACLQ    | WDFVR  | NTL.....   | 393   |       |
| NTDB id 412 SMU RS09535 WP 002262393.1       | GRSR | SDVRY | I....  | AVLH    | AFNLVR | QTLLSHKNLV | 418   |       |
| NTDB id 170 SP RS09755 WP 000642718.1        | GRSR | ADVR  | HI.... | AVMH    | AFNLVR | KALLSD     | ....  | 418   |
| NTDB id 280 KZH43 RS08670 WP 000642700.1     | GRSR | ADVR  | HI.... | AVMH    | AFNLVR | KALLSD     | ....  | 418   |
| NTDB id 205 SPR RS08830 WP 000642700.1       | GRSR | ADVR  | HI.... | AVMH    | AFNLVR | KALLSD     | ....  | 418   |
| NTDB id 239 SPD RS09270 WP 000642701.1       | GRSR | ADVR  | HI.... | AVMH    | AFNLVR | KALLSD     | ....  | 418   |
| NTDB id 538 SMSK321 RS11060 WP 000642686.1   | GRSR | ADVR  | HI.... | AVMH    | AFNLVR | KALLSD     | ....  | 418   |
| NTDB id 510 SM12261 RS08320 WP 000642690.1   | GRSR | ADVR  | HI.... | AVMH    | AFNLVR | KALLSD     | ....  | 418   |
| consensus                                    | !    | ***** | !      | ***     | *****  | *****      | ***** | ***** |

- ☒ non conserved
- ☒ similar
- ☒ ≥ 50% conserved