```
NTDB id 1028 TT RS08215 WP 011173991.1  MSVLTIGDKRLGAALLDAGLLTDEELQRALERHREVGGSLAEVLVDMGLLSERRIAQTIEDRFGIPLVELHRVEIPPKVKALLPA   85
NTDB id 28569 DEIMA RS00115 WP 013555191.1  .MALSIGDRRLGAILLEQGYVNDTDLQRALDRHSEVGGRLADILIDSSMVGEKRIARAVEEALGIPLVSLTQLEPDPKAIAAVPA   84
NTDB id 1306 DR RS10060 WP 027479822.1  .MALSIGDRRLGAILLDQGYLGDNDLQRALERHSEVGGRLADVLIDSGMVGEKRIARAIEEALGIPLVNLLAVQPDPAALRSIRP   84
consensus                               **!*!!!*!!!!*!!**!**  ! *!!!!!*!!*!!!!*!!**!*!*****!*!!!***!***!!!!! !  ****!****  ***
```

```
NTDB id 1028 TT RS08215 WP 011173991.1  EKAKELKAIPFALDEEAGVVRVAFLNPLDTLSLEEVEDLTGLVVEPYQTTKSAFLYALAKHYPELGLPVPPPP..SGEGQKDLKL   168
NTDB id 28569 DEIMA RS00115 WP 013555191.1  EAAQASQAFPFALDG..ATLRVAFVDPLSSMNIETIEDESGYAVEPYQALRSHLNWAIAEHYPELGLNAQKPIE...AGEQVSLL   164
NTDB id 1306 DR RS10060 WP 027479822.1  QTALNLQAFPFALEG..DRLRVALVDPLSSFSIETLEDDSGFDIEPYQALREEVMWAIATHYPELGLETVVPSGASDAGRTGGKL   167
consensus                               * !  **!*!!!!**  * *!!!***!!*****!**!!**!* *!!!!**** ***!*! !!!!!!! *  !  * *!    *!
```

```
NTDB id 1028 TT RS08215 WP 011173991.1  GELLLQKGWISREALEEALVEQEKTGDLLGRILVRKG.LPEEALYRALAEQKGLEFLESTEGIVPDPSAALLLLRSDALRYGAVP   252
NTDB id 28569 DEIMA RS00115 WP 013555191.1  GQKMLQRGLITDAQINQALELQKQTGDPLGAALIELGFITEDQLYETLAEQSNTVFVRNPRDYEPDESVLGLMLRADALRLTSVP   249
NTDB id 1306 DR RS10060 WP 027479822.1  GERLITHGYITDAQLQVALDAQQQTGEALGATLISQRAITEDQLYEVLAEQEGTTFLPNPSGFHPGEEVLGSMLRADALRLLAVP   252
consensus                               !*****!*!*!*****  !!* ! *!!* !!* !*  * **!**!!* !!!! ** !* ** **  !*********!!*!!!!* *!!
```

```
NTDB id 1028 TT RS08215 WP 011173991.1  IGFQNGEVEVVLSDPRHKEAVAQLLNRPARFYLALPQAWEELFRRAYPQKNRLGEVLVQEGKLSREALKEALEVQKGLPRAKPLG   337
NTDB id 28569 DEIMA RS00115 WP 013555191.1  VRDQGDHVLVITSDQRRRADLESIIGRPVQLALAKPADVEMLIDRLYPQRGRLGEAMVNAGTLSRDQLREALQVQARSGKVKPLG   334
NTDB id 1306 DR RS10060 WP 027479822.1  VDETEQGVTVLTSDPRKRPDIDALIGRPVQLMLTRPRDIERLIEQFYPQRGRLGEQLVQEGTLSRDQLREALQVQAREGKVKPLG   337
consensus                               * **   ! !**!!*!** *** ***!!*** !**!  **!  !*** !!!**!!!! *!**!*!!!**!*!!!*!!** ***!!!!
```

```
NTDB id 1028 TT RS08215 WP 011173991.1  EILVELGLARPEDVEEALQKQRRGGGRLEDTLVQSGKLRPEALAQAVATQLGYPYVDPEEDPPDPGAPLLLPEDLCRRYGVFPHR   422
NTDB id 28569 DEIMA RS00115 WP 013555191.1  EVIVDLGFAEADEISEAIEKQNTGGGRLEDTLVQSGKLSPEMLARSLAAQLGYEYLDPQQSPPDPKVAQLIPEATARRFVVVPVR   419
NTDB id 1306 DR RS10060 WP 027479822.1  EVITELGFASPDEVDSALQKQNVGGGRLEDTLVQSGKLSPEMLARSLAAQLGYEFLDPIQNPPDPKVALMIPEATARRYVVVPVR   422
consensus                               !****!!*! *******!**!!* !!!!!!!!!!!!!!!!*!!*!!***!*!!!!***!! * !!!!*******!!***!!**!*!*!
```

```
NTDB id 1028 TT RS08215 WP 011173991.1  LEGNRLVLLMKDPRNILALDDVRLALKRKGLNYEVAPAVATEAAITKLIERFYGKAELSEIAKEFAKKQAE.....EEVPSPLEL   502
NTDB id 28569 DEIMA RS00115 WP 013555191.1  MQGDALVVAMKDPRNVFALDDLRLIAGR.....EIIPAVMAERDIIRLIERYFGSNDMAELNKKLAETGRTRERERERDADLNASL   499
NTDB id 1306 DR RS10060 WP 027479822.1  LQGNSLVVAMKDPRNVFALDDLKLITGK.....EILPAVMAEKDIIRLIERYFGEKGFEKLNKELAERNKTQQSQEADL...SVA   499
consensus                               **!* !!**!!!!!!**!!!!**!* **     !**!!!**!**!**!!!!**!  ** ***!**!*****      ***     *
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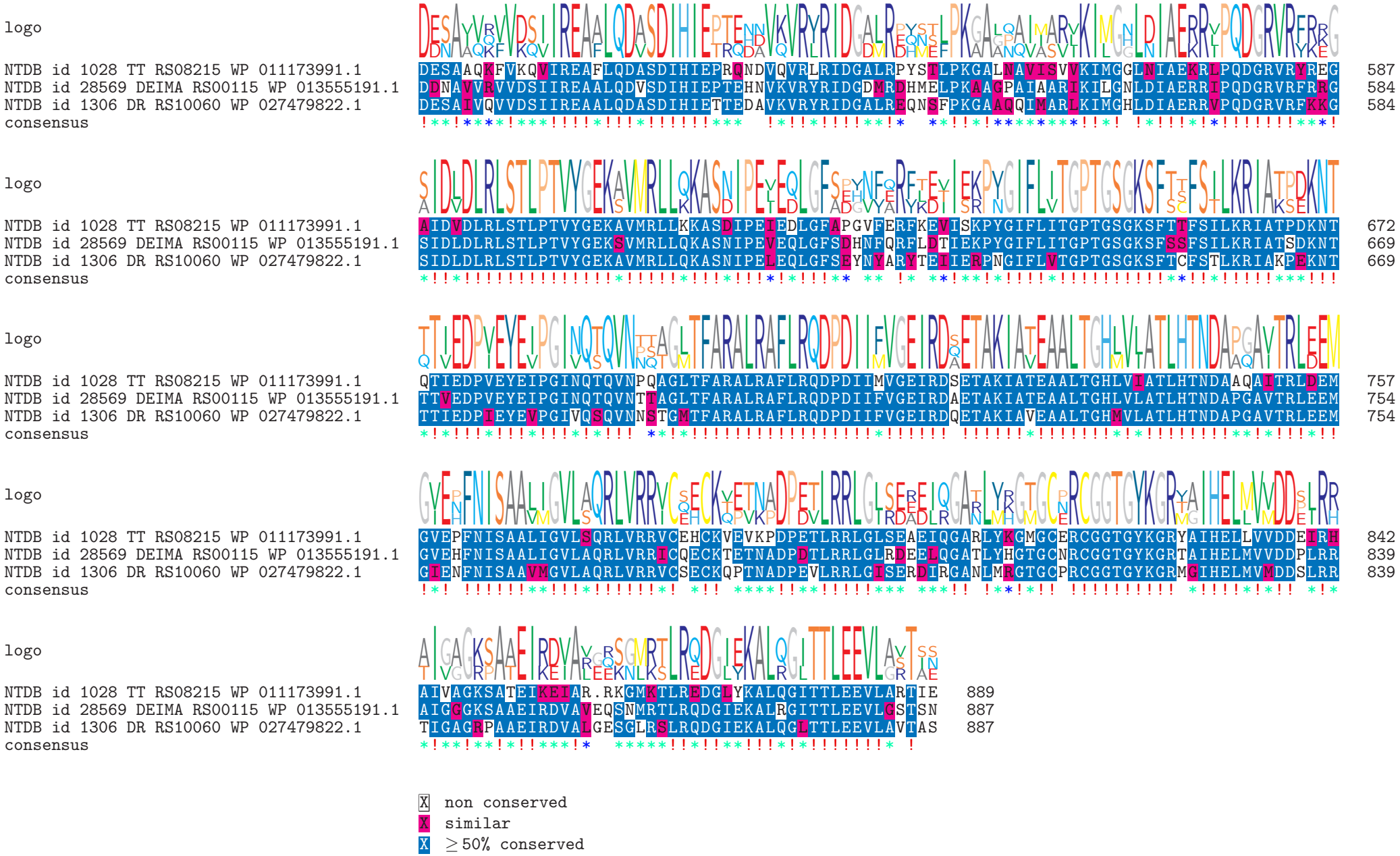
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NTDB id 1306 DR RS10060 WP 027479822.1 584
consensus
logo
NTDB id 1028 TT RS08215 WP 011173991.1 672
NTDB id 28569 DEIMA RS00115 WP 013555191.1 669
NTDB id 1306 DR RS10060 WP 027479822.1 669
consensus
logo
NTDB id 1028 TT RS08215 WP 011173991.1 757
NTDB id 28569 DEIMA RS00115 WP 013555191.1 754
NTDB id 1306 DR RS10060 WP 027479822.1 754
consensus
logo
NTDB id 1028 TT RS08215 WP 011173991.1 842
NTDB id 28569 DEIMA RS00115 WP 013555191.1 839
NTDB id 1306 DR RS10060 WP 027479822.1 839
consensus
logo
NTDB id 1028 TT RS08215 WP 011173991.1 889
NTDB id 28569 DEIMA RS00115 WP 013555191.1 887
NTDB id 1306 DR RS10060 WP 027479822.1 887
consensus
X non conserved
X similar
X ≥ 50% conserved