```
NTDB id 171824 AYJ52 RS03125 WP 017403269.1  MKLKLKNFKPNNLWYAICSSSVAFTWLTTSSVVQASDLQIYASPTAGKKTIVMMLDTSGSMTNNSYGENRLAMLKNGMNA  80
NTDB id 1063 ABD1 RS15730 WP 000768961.1     MKLKLKNFKPNNLWYAVCSSSMIFTWLMTSSVVQASDLQIYASPTAGKKTIVMMLDTSGSMTSNSYGENRLAMLKNGMNA  80
consensus                                    !!!!!!!!!!!!!!!!!*!!!!* !!!! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

```
NTDB id 171824 AYJ52 RS03125 WP 017403269.1  FLASNNPVLNDTRVGLGNFSANGDSRSGQVLVAAAPLGDASTLNTVGSQRYKLKQAVANLTAGGSTPSAHAYAEAAAYLM  160
NTDB id 1063 ABD1 RS15730 WP 000768961.1     FLASNNPVLNDTRVGLGNFSADGDSRSGQILVAAAPLGDASTLNTMGSQRYKLKQAVASLTASGYTPSAHAYAEAAAYLM  160
consensus                                    !!!!!!!!!!!!!!!!!!!!! !!!!!!!*!!!!!!!!!!!!!!!!*!!!!!!!!!!!!! !!! ! !!!!!!!!!!!!!!!
```

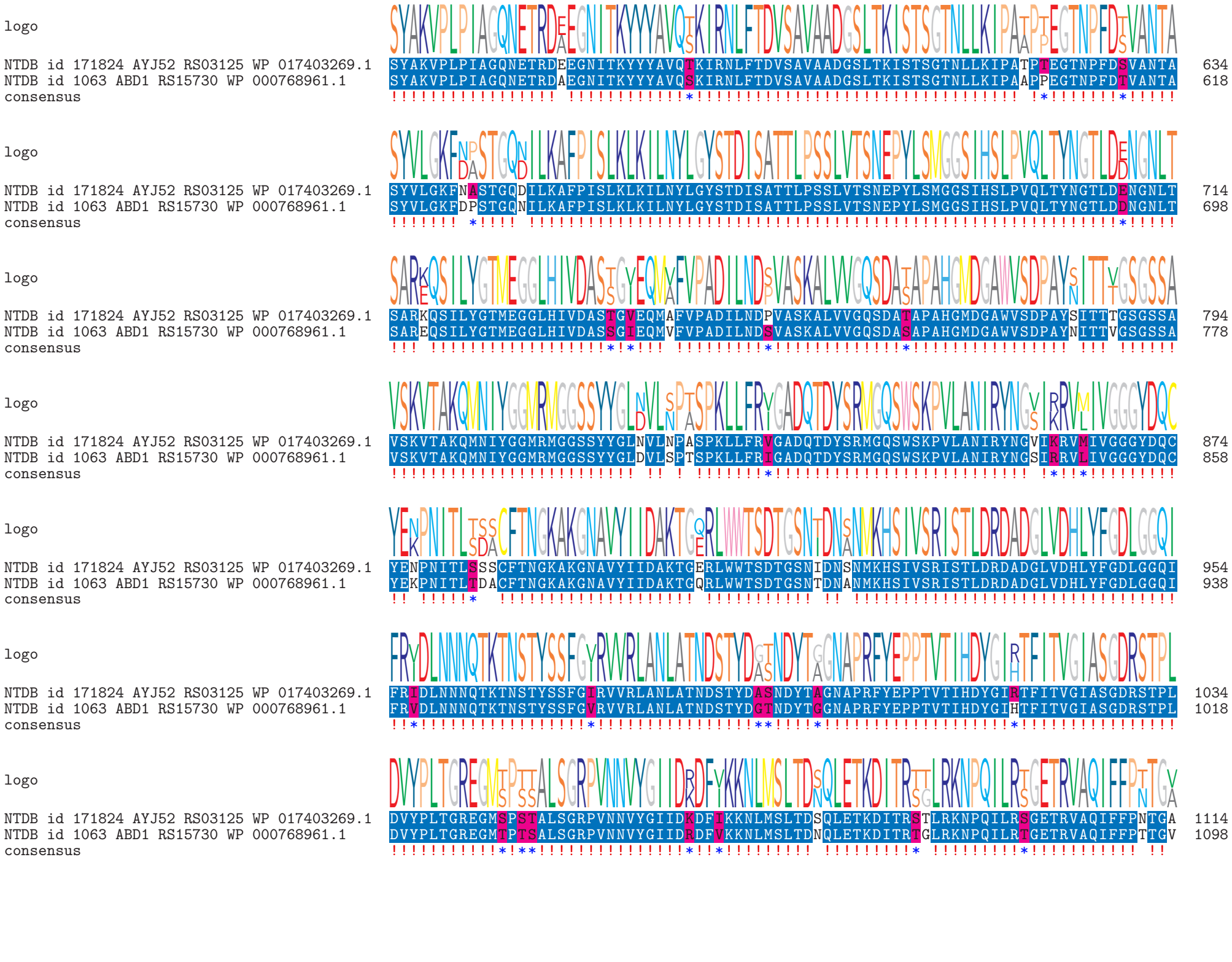
```
NTDB id 171824 AYJ52 RS03125 WP 017403269.1  GTTTYSEANYAIRK..DSYIRRVRKSDNRTEYSYCTNYRDSQIDTTNLWQPCRSNNYWSNWSTSNPGVDTAT...AYDTS  235
NTDB id 1063 ABD1 RS15730 WP 000768961.1     GTTTLKNINLVDAPIYFSYVTYDRRGRVITNYHACTEWNTEGT.........ICNSWDSSSLSNPPVISGLQQASCTAN  230
consensus                                    !!!!    !    *** !!*   !*    ! !* !! *     ********** *! !   ! !!!*! ** *** *
```

```
NTDB id 171824 AYJ52 RS03125 WP 017403269.1  SDWTYSYTYYY.TTFNYAVANADSGIPKSKSNDTASNPNIVVDRNASNLNAIYQSPLPAVANRQSCDGQGIYFLSDGEPN  314
NTDB id 1063 ABD1 RS15730 WP 000768961.1     IGWQLLSGTCYKKTGLITINNLDSGFNKSIS...........GSKNTDQSQYNSPLPAVANRQSCDGQGIYFLSDGEPN  298
consensus                                      !      *!* !   * ! !!! *!! !*********** *  !*!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

```
NTDB id 171824 AYJ52 RS03125 WP 017403269.1  NTTNTRSATVMSTALGSTLGANFTCSGGLSNTTADSGWACMGEFAKRLFDKTKNPAGVSIQTAFVGFGSDFSSLSSSDVK  394
NTDB id 1063 ABD1 RS15730 WP 000768961.1     KTTDTRSASIMSTALGSTFGADFNCSGGLSNTTADSGWACMGEFAKRLFDKTKNPAGVSIQTAFVGFGSDFSSLSSSDVK  378
consensus                                     !! !!!!**!!!!!!!!! !! ! !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

```
NTDB id 171824 AYJ52 RS03125 WP 017403269.1  NACRLSSRTQSDRKSDDNCSPNQTTNAVAAPGYGNGGFFPTQSAQGVTDSVIAFINNLDKVPLEPLTTGAISVPYDALNP  474
NTDB id 1063 ABD1 RS15730 WP 000768961.1     NACRLSSRTQFDRGGDDLCSPNQTTNAITAPGYGNGGFFSTQSAQGVTDSVIAFINNLDKVPLEPLTTGAISVPYDALNP  458
consensus                                    !!!!!!!!!! !!   !! !!!!!!!!!* !!!!!!!!!!*!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```

```
NTDB id 171824 AYJ52 RS03125 WP 017403269.1  KNLQEYGYLRAFEPNPANTYLTWRGNLKKYHVVLSGTNAGAFEANTGGLVYNATGAFRTGTKDYWNSSTYNDGGKVFFGG  554
NTDB id 1063 ABD1 RS15730 WP 000768961.1     KNLQEYGYLRAFEPNPANTYLTWRGNLKKYHVVLSGTNAGAFEANTGGLVYNATGAFRTGTKDYWNSSTYNDGGKVFFGG  538
consensus                                    !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
```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NTDB id 171824 AYJ52 RS03125 WP 017403269.1 SYAKVPLPIAGQNETRDEEGNITKYYYAVQTKIRNLFTDVSAVAADGSLTKISTSGTNLLKIPATPTEGTNPFDSVANTA 634
NTDB id 1063 ABD1 RS15730 WP 000768961.1 SYAKVPLPIAGQNETRDAEGNITKYYYAVQSKIRNLFTDVSAVAADGSLTKISTSGTNLLKIPAAPPEGTNPFDTVANTA 618
consensus
logo
NTDB id 171824 AYJ52 RS03125 WP 017403269.1 SYVLGKFNASTGQDILKAFPISLKLKILNYLGYSTDISATTLPSSLVTSNEPYLSMGGSIHSLPVQLTYNGTLDENGNLT 714
NTDB id 1063 ABD1 RS15730 WP 000768961.1 SYVLGKFDPSTGQNILKAFPISLKLKILNYLGYSTDISATTLPSSLVTSNEPYLSMGGSIHSLPVQLTYNGTLDDNGNLT 698
consensus
logo
NTDB id 171824 AYJ52 RS03125 WP 017403269.1 SARKQSILYGTMEGGLHIVDASTGVEQMAFVPADILNDPVASKALVVGQSDATAPAHGMDGAWVSDPAYSITTTGSGSSA 794
NTDB id 1063 ABD1 RS15730 WP 000768961.1 SAREQSILYGTMEGGLHIVDASSGIEQMVFVPADILNDSVASKALVVGQSDASAPAHGMDGAWVSDPAYNITTVGSGSSA 778
consensus
logo
NTDB id 171824 AYJ52 RS03125 WP 017403269.1 VSKVTAKQMNIYGGMRMGGSSYYGLNVLNPASPKLLFRVGADQTDYSRMGQSWSKPVLANIRYNGVIKRVMIVGGGYDQC 874
NTDB id 1063 ABD1 RS15730 WP 000768961.1 VSKVTAKQMNIYGGMRMGGSSYYGLDVLSPTSPKLLFRIGADQTDYSRMGQSWSKPVLANIRYNGSIRRVLIVGGGYDQC 858
consensus
logo
NTDB id 171824 AYJ52 RS03125 WP 017403269.1 YENPNITLSSSCFTNGKAKGNAVYIIDAKTGERLWWTSDTGSNIDNSNMKHSIVSRISTLDRDADGLVDHLYFGDLGGQI 954
NTDB id 1063 ABD1 RS15730 WP 000768961.1 YEKPNITLTDACFTNGKAKGNAVYIIDAKTGQRLWWTSDTGSNTDNANMKHSIVSRISTLDRDADGLVDHLYFGDLGGQI 938
consensus
logo
NTDB id 171824 AYJ52 RS03125 WP 017403269.1 FRIDLNNNQTKTNSTYSSFGIRVVRLANLATNDSTYDASNDYTAGNAPRFYEPPTVTIHDYGIRTFITVGIASGDRSTPL 1034
NTDB id 1063 ABD1 RS15730 WP 000768961.1 FRVDLNNNQTKTNSTYSSFGVRVVRLANLATNDSTYDGTNDYTGGNAPRFYEPPTVTIHDYGIHTFITVGIASGDRSTPL 1018
consensus
logo
NTDB id 171824 AYJ52 RS03125 WP 017403269.1 DVYPLTGREGMSPSTALSGRPVNNVYGIIDKDFIKKNLMSLTDSQLETKDITRSTLRKNPQILRSGETRVAQIFFPNTGA 1114
NTDB id 1063 ABD1 RS15730 WP 000768961.1 DVYPLTGREGMTPTSALSGRPVNNVYGIIDRDFVKKNLMSLTDNQLETKDITRTGLRKNPQILRTGETRVAQIFFPTTGV 1098
consensus

logo

```
NTDB id 171824 AYJ52 RS03125 WP 017403269.1  GQNGWYRSLSSMSDGTEKANNSFRIKGGLKAFEEPMAVTGTLIVPVYDPQGTGIVAADPCLPRVVGETDQQTFCLPFGAC  1194
NTDB id 1063 ABD1 RS15730 WP 000768961.1     GKGGWYRSLSSTSDGTEKANNSFRIKGGLKAFEEPMAITGNLIIPVYDPQGTGIVAADPCLPRVVGETDRQTYCLPFGAC  1178
consensus                                    !  !!!!!!!! !!!!!!!!!!!!!!!!!!!!!!!!!*!! !!*!!!!!!!!!!!!!!!!!!!!!!!!! !!*!!!!!!!
```

logo

```
NTDB id 171824 AYJ52 RS03125 WP 017403269.1  LNSDGSIDQNKENGSGFKTQTGTNCPVGASECNKNVIGSGIRGIAFVPKRDEPPVTNSCGKLQLSGNESGTGEWQCTSHL  1274
NTDB id 1063 ABD1 RS15730 WP 000768961.1     LNSDGSIDQNKENHSGFETQTGTNCPVGASECNKNVIGSGIRSVTFVPTEDNPPMTNSCGKLKLSGNEQGTGQWQCTSHL  1258
consensus                                    !!!!!!!!!!!!!*!!! !!!!!!!!!!!!!!!!!!!!!!!!! * !!!  ! !!*!!!!!!! !!!!! !!! !!!!!!!
```

logo

```
NTDB id 171824 AYJ52 RS03125 WP 017403269.1  VPTRWYERYR  1284
NTDB id 1063 ABD1 RS15730 WP 000768961.1     VPTRWYERYR  1268
consensus                                    !!!!!!!!!!
```

X non conserved

X similar

X ≥ 50% conserved