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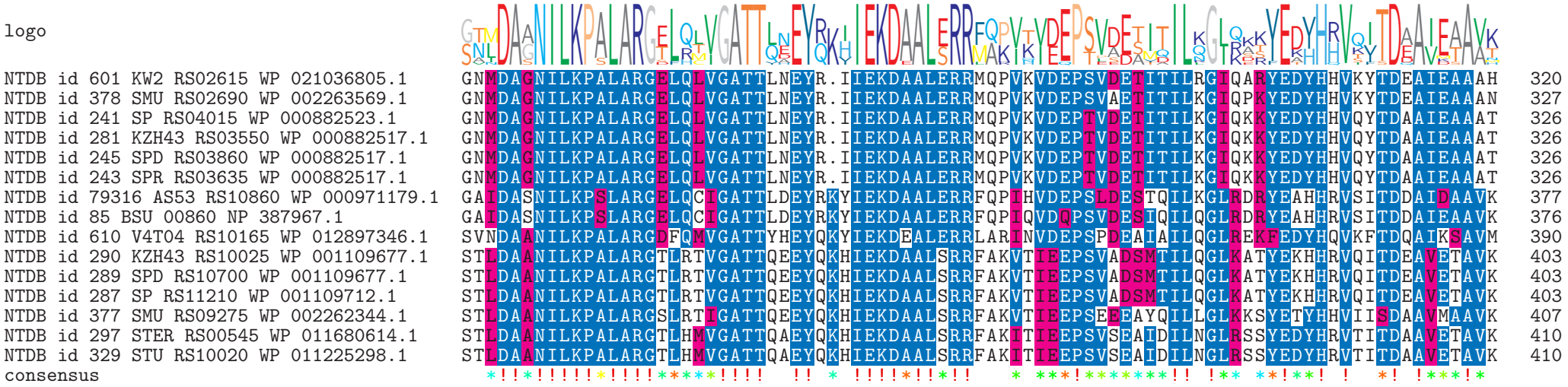


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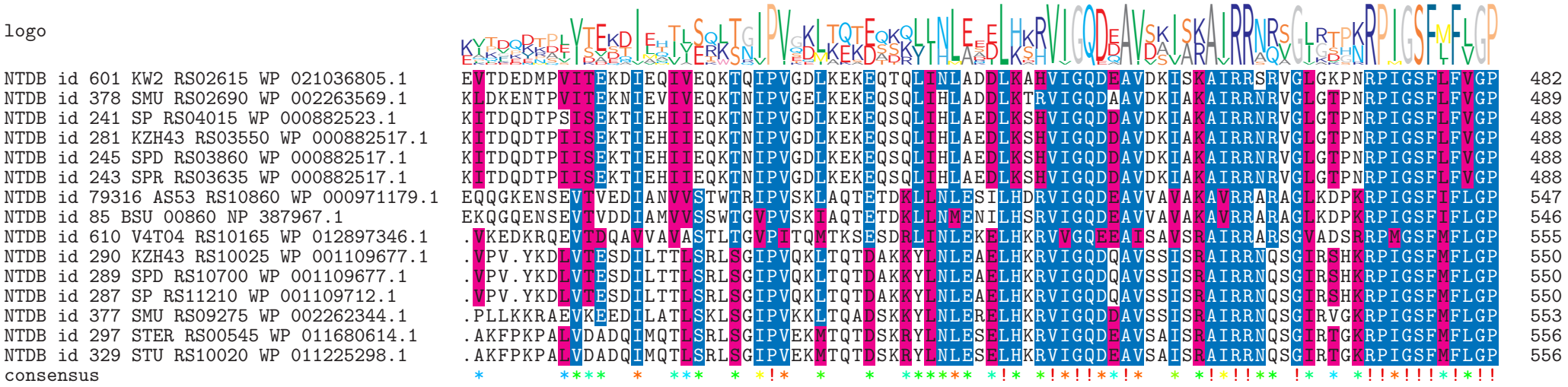
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consensus                                  !**!!!!*!* *!!!!*!* **!!  *   ***  !*****!*!!**!!*!!!*!** *****     **!!!!!*!***!*!**  *
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consensus


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consensus


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NTDB id 297 STER RS00545 WP 011680614.1 TGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNILL 641
NTDB id 329 STU RS10020 WP 011225298.1 TGVGKTELAKALAEVLFDDESALLRFDMSEYMEKFAASRLNGAPPGYVGYDEGGELTEKVRNKPYSVLLFDEIEKAHPDIFNVLL 641
consensus

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NTDB id 601 KW2 RS02615 WP 021036805.1      QILEDGRLTDAQGRTVSFKDSLIIMTSNAGTGK..VEASVGFGAAREGR.....TKSVLGQLGDFFSPEFMNRFDGIIEFSALSK  645
NTDB id 378 SMU RS02690 WP 002263569.1      QVLDDGRLTDGQGRTVSFKDTIIIMTSNAGTGK..SEANVGFGASREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFQALSK  652
NTDB id 241 SP RS04015 WP 000882523.1       QVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVGFGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSK  651
NTDB id 281 KZH43 RS03550 WP 000882517.1    QVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVGFGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSK  651
NTDB id 245 SPD RS03860 WP 000882517.1      QVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVGFGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSK  651
NTDB id 243 SPR RS03635 WP 000882517.1      QVLDDGRLTDGQGRTVSFKDAIIIMTSNAGTGK..TEASVGFGAAREGR.....TNSVLGELGNFFSPEFMNRFDGIIEFKALSK  651
NTDB id 79316 AS53 RS10860 WP 000971179.1   QVLEDGRLTDSKGRTVDFRNTIVIMTSNVGAEALKRNKHLGFNVQDESRDYSDMKGKVMDELKKAFRPEFLNRIDEIIVFHMLEK  717
NTDB id 85 BSU 00860 NP 387967.1            QVLEDGRLTDSKGRTVDFRNTILIMTSNVGASELKRNKYVGFNVQDETQNHKDMKDKVMGELKRAFRPEFINRIDEIIVFHSLEK  716
NTDB id 610 V4T04 RS10165 WP 012897346.1    QILDDGFVTDTKGRKVDFRNTIIIMTSNLGATALRDDKTVGFGAKNITADYSAMKSRILEELKRHYRPEFLNRIDENIVFHSLES  725
NTDB id 290 KZH43 RS10025 WP 001109677.1    QVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSS  720
NTDB id 289 SPD RS10700 WP 001109677.1      QVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSS  720
NTDB id 287 SP RS11210 WP 001109712.1       QVLDDGVLTDSKGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAKDIRFDQENMEKRMFEELKKAYRPEFINRIDEKVVFHSLSS  720
NTDB id 377 SMU RS09275 WP 002262344.1      QVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAKSFSQDYKAMESRILEELKKVYRPEFINRIDEKVVFHNLGQ  723
NTDB id 297 STER RS00545 WP 011680614.1     QVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEE  726
NTDB id 329 STU RS10020 WP 011225298.1      QVLDDGVLTDSRGRKVDFSNTIIIMTSNLGATALRDDKTVGFGAQTISHNHQAMQARIMEELKKSYRPEFINRIDEKVVFHSLEE  726
consensus                                   !*!*!! *!!**!! !*!*****!!!!!*!* ** ****!!** * *** *!** **!!!*!!*!* **!* !*
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NTDB id 601 KW2 RS02615 WP 021036805.1      ENLLKIVDLMLDEVNEQIGRNDIHLSVTQAAKEKLVDLGYNPAMGARPLRRTIQENIEDSIADFYIEHPEYKQLV.ADLIDDKIV  729
NTDB id 378 SMU RS02690 WP 002263569.1      DNLLQIVSLMLDDVNQRLAVNAIHLDVTDKVKEKLVDLGYDPKMGARPLRRTIQEHIEDAITDFYLEHPEQKELK.AIMTSNGKI  736
NTDB id 241 SP RS04015 WP 000882523.1       DNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNI  735
NTDB id 281 KZH43 RS03550 WP 000882517.1    DNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNI  735
NTDB id 245 SPD RS03860 WP 000882517.1      DNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNI  735
NTDB id 243 SPR RS03635 WP 000882517.1      DNLLQIVELMLADVNKRLSSNNIRLDVTDKVKEKLVDLGYDPKMGARPLRRTIQDYIEDTITDYYLENPSEKDLK.AVMTSKGNI  735
NTDB id 79316 AS53 RS10860 WP 000971179.1   KHIQEIVTLMVNQLVNRLKEQEIELHLTEGAISAIADKGFDREYGARPLRRAIQKHVEDRLSEELLKGAIEKGQKVIFDVEGESF  802
NTDB id 85 BSU 00860 NP 387967.1            KHLTEIVSLMSDQLTKRLKEQDLSIELTDAAKAKVAEEGVDLEYGARPLRRAIQKHVEDRLSEELLRGNIHKGQHIVLDVEDGEF  801
NTDB id 610 V4T04 RS10165 WP 012897346.1    QEIEQIVKIMSKSLIKRLAEQDIHVKLTPSAVKLIAEVGFDPEYGARPLRKALQKEVEDLLSEQLLSGEIKAGNHVSIGASNKKI  810
NTDB id 290 KZH43 RS10025 WP 001109677.1    DHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQL  805
NTDB id 289 SPD RS10700 WP 001109677.1      DHMQEVVKIMVKPLVASLAEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSILKIGVKAGQL  805
NTDB id 287 SP RS11210 WP 001109712.1       DHMQEVVKIMVKPLVASLTEKGIDLKLQASALKLLANQGYDPEMGARPLRRTLQTEVEDKLAELLLKGDLVAGSTLKIGVKAGQL  805
NTDB id 377 SMU RS09275 WP 002262344.1      EDIRHIVKIMVAPLIAHLADQGITLKFQPSALKHLALAGYDAEMGARPLRRTLQTEVEDKLAELILSGKLASGQTLKIGIQKEKL  808
NTDB id 297 STER RS00545 WP 011680614.1     EQLHDIVKIMVKPLISALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKL  811
NTDB id 329 STU RS10020 WP 011225298.1      EQLHDIVKIMVKPLISALADKGISLKFQPAALKHLAKDGYDIEMGARPLRRTIQTQVEDKLSELLLGGQVVSGQTLKIGCSKDKL  811
consensus                                   * *  *! *!*  *   * ** * * **  *   *** !****!!!!!!***!  *!! *** ** * *  *  * * *  * *
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NTDB id 601 KW2 RS02615 WP 021036805.1      ISNQTQETAETTDEEVPAE   748
NTDB id 378 SMU RS02690 WP 002263569.1      VIKASNK.VETVTKATSD.   753
NTDB id 241 SP RS04015 WP 000882523.1       QIKSAKK.AEVKSSEKEK.   752
NTDB id 281 KZH43 RS03550 WP 000882517.1    QIKSAKK.AEVKSSEKEK.   752
NTDB id 245 SPD RS03860 WP 000882517.1      QIKSAKK.AEVKSSEKEK.   752
NTDB id 243 SPR RS03635 WP 000882517.1      QIKSAKK.AEVKSSEKEK.   752
NTDB id 79316 AS53 RS10860 WP 000971179.1   VIHSAEKVK..........   811
NTDB id 85 BSU 00860 NP 387967.1            VVKTTAKTN..........   810
NTDB id 610 V4T04 RS10165 WP 012897346.1    KIAQIV.............   816
NTDB id 290 KZH43 RS10025 WP 001109677.1    KFDIA..............   810
NTDB id 289 SPD RS10700 WP 001109677.1      KFDIA..............   810
NTDB id 287 SP RS11210 WP 001109712.1       KFDIA..............   810
NTDB id 377 SMU RS09275 WP 002262344.1      KFDIV..............   813
NTDB id 297 STER RS00545 WP 011680614.1     TFTVV..............   816
NTDB id 329 STU RS10020 WP 011225298.1      TFTVV..............   816
consensus
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X non conserved
X similar
X ≥ 50% conserved