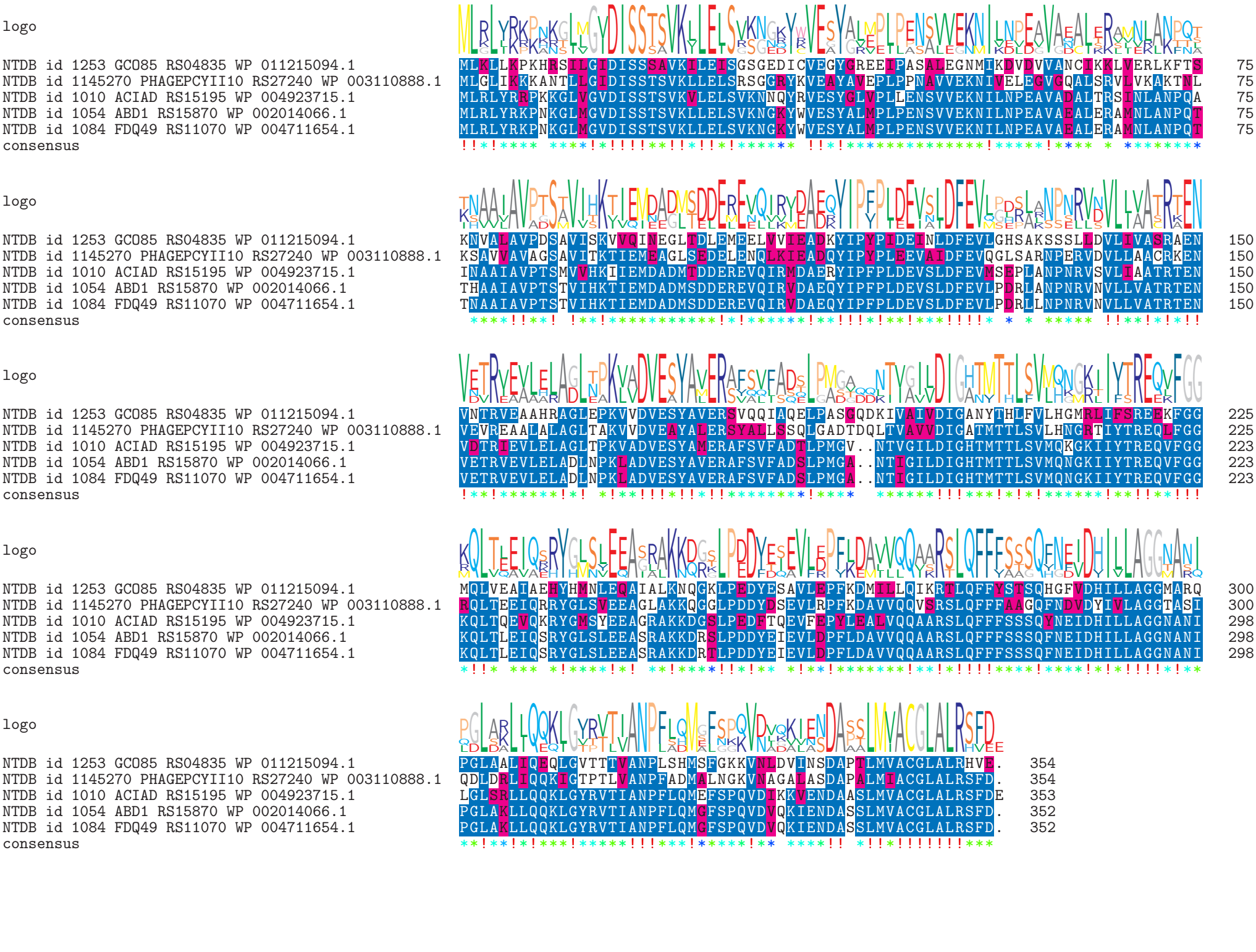
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NTDB id 1253 GCO85 RS04835 WP 011215094.1
NTDB id 1145270 PHAGEPCYII10 RS27240 WP 003110888.1
NTDB id 1010 ACIAD RS15195 WP 004923715.1
NTDB id 1054 ABD1 RS15870 WP 002014066.1
NTDB id 1084 FDQ49 RS11070 WP 004711654.1
consensus
MLKLLKPKHRSILGIDISSSAVKILEISGSGEDICVEGYGREEIPASALEGNMIKDVDVVANCIKKLVERLKFTS 75
MLGLIKKKANTLLGIDISSTSVKLLELSRSGGRYKVEAYAVEPLPPNAVVEKNIVELEGVGQALSRVLVKAKTNL 75
MLRLYRRPKKGLVGVDISSTSVKVLELSVKNNQYRVESYGLVPLLENSVVEKNILNPEAVADALTRSINLANPQA 75
MLRLYRKPNKGLMGVDISSTSVKLLELSVKNGKYWVESYALMPLPENSVVEKNILNPEAVAEALERAMNLANPQT 75
MLRLYRKPNKGLMGVDISSTSVKLLELSVKNGKYWVESYALMPLPENSVVEKNILNPEAVAEALERAMNLANPQT 75
!!*!**** ****!*!!!!**!!*!!*!******* !!*!*************!*****!**** * ******** 75
logo
NTDB id 1253 GCO85 RS04835 WP 011215094.1
NTDB id 1145270 PHAGEPCYII10 RS27240 WP 003110888.1
NTDB id 1010 ACIAD RS15195 WP 004923715.1
NTDB id 1054 ABD1 RS15870 WP 002014066.1
NTDB id 1084 FDQ49 RS11070 WP 004711654.1
consensus
KNVALAVPDSAVISKVVQINEGLTDLEMEELVVIEADKYIPYPIDEINLDFEVLGHSAKSSSLLDVLIVASRAEN 150
KSAVVAVAGSAVITKTIEMEAGLSEDELENQLKIEADQYIPYPLEEVAIDFEVQGLSARNPERVDVLLAACRKEN 150
INAAIAVPTSMVVHKIIEMDADMTDDEREVQIRMDAERYIPFPLDEVSLDFEVMSEPLANPNRVSVLIAATRTEN 150
THAAIAVPTSTVIHKTIEMDADMSDDEREVQIRVDAEQYIPFPLDEVSLDFEVLPDRLANPNRVNVLLVATRTEN 150
TNAAIAVPTSTVIHKTIEMDADMSDDEREVQIRVDAEQYIPFPLDEVSLDFEVLPDRLLNPNRVNVLLVATRTEN 150
****!!**! !**!***********!*!******!**!!!*!**!***!!!!* * * ***** !!**!*!*!! 150
logo
NTDB id 1253 GCO85 RS04835 WP 011215094.1
NTDB id 1145270 PHAGEPCYII10 RS27240 WP 003110888.1
NTDB id 1010 ACIAD RS15195 WP 004923715.1
NTDB id 1054 ABD1 RS15870 WP 002014066.1
NTDB id 1084 FDQ49 RS11070 WP 004711654.1
consensus
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VEVREAALALAGLTAKVVDVEAYALERSYALLSSQLGADTDQLTVAVVDIGATMTTLSVLHNGRTIYTREQLFGG 225
VDTRIEVLELAGLTPKVADVESYAMERAFSVFADTLPMGV..NTVGILDIGHTMTTLSVMQKGKIIYTREQVFGG 223
VETRVEVLELADLNPKLADVESYAVERAFSVFADSLPMGA..NTIGILDIGHTMTTLSVMQNGKIIYTREQVFGG 223
VETRVEVLELADLNPKLADVESYAVERAFSVFADSLPMGA..NTIGILDIGHTMTTLSVMQNGKIIYTREQVFGG 223
!**!******!*! *!**!!!*!!*!!*******!****** ******!!!***!*!*!******!**!!**!!! 225
logo
NTDB id 1253 GCO85 RS04835 WP 011215094.1
NTDB id 1145270 PHAGEPCYII10 RS27240 WP 003110888.1
NTDB id 1010 ACIAD RS15195 WP 004923715.1
NTDB id 1054 ABD1 RS15870 WP 002014066.1
NTDB id 1084 FDQ49 RS11070 WP 004711654.1
consensus
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RQLTEEIQRRYGLSVEEAGLAKKQGGLPDDYDLSEVLRPFKDAVVQQVSRSLQFFFAAGQFNDVDYIVLAGGTASI 300
KQLTQEVQKRYGMSYEEAGRAKKDGSLPEDFTQEVFEPYLEALVQQAARSLQFFFSSSQYNEIDHILLAGGNANI 298
KQLTLEIQSRYGLSLEEASRAKKDRSLPDDYEIEVLDPFLDAVVQQAARSLQFFFSSSQFNEIDHILLAGGNANI 298
KQLTLEIQSRYGLSLEEASRAKKDRTLPDDYEIEVLDPFLDAVVQQAARSLQFFFSSSQFNEIDHILLAGGNANI 298
!! *** *!****!*! **!***!!*!** *!**!*******!**!*!!!!****!****!*!*!!!!*!** 300
logo
NTDB id 1253 GCO85 RS04835 WP 011215094.1
NTDB id 1145270 PHAGEPCYII10 RS27240 WP 003110888.1
NTDB id 1010 ACIAD RS15195 WP 004923715.1
NTDB id 1054 ABD1 RS15870 WP 002014066.1
NTDB id 1084 FDQ49 RS11070 WP 004711654.1
consensus
PGLARLLQQKLGYRVTIANPFLQMGFSPQVDVQKIENDASSLMVACGLALRSFD 354
QDLDRLIQQKIGTPTLVANPFADMALNGKVNAGALASDAPALMIACGLALRSFD. 354
LGLSRLLQQKLGYRVTIANPFLQMEFSPQVDIKKVENDAASLMVACGLALRSFDE 353
PGLAKLLQQKLGYRVTIANPFLQMGFSPQVDVQKIENDASSLMVACGLALRSFD. 352
PGLAKLLQQKLGYRVTIANPFLQMGFSPQVDVQKIENDASSLMVACGLALRSFD. 352
!!*!***!*****!!!***!*****!** ****!! *!!*!!!!!!!*** 354

X non conserved
X similar
X $\geq$ 50% conserved