>YP\_010228801.1 tail collar fiber protein [Escherichia phage HP3]

MSNNTYQHVSNESKYVKFDPTGSNFPGTVTTVQSALSKISNIGVNGIPDATMEVKGIAMIASEQEVLDGT

NNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLKGSDNNSSITPQKLKYHTDDVFKNRYSSESSNG

VIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTATESVRGVVQLSTVAQIRQGTLREGYAI

SPYTFMNSVATHEYKGVIRLGTQTEINNNLGGVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIMMFAGDSAPPG

WIMCHGGTVSGDQFPDYRNVVGTRFGGDWNNPGVPDMRGLFVRGAGTGGHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYNRSEGPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGPRDAHGT

LNREGLIGYETRPWNISLNYIIKVHY

>URQ01387.1 Phage straight tail fiber (short tail fiber) [Escherichia phage HP3.1]

MSNNTYQHVSNESKYVKFDPTGSNFPGTVTTVQSALSKISNIGVNGIPDATMEVKGIAMIASEQEVLDGT

NNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLKGSDNNSSITPQKLKYHTDDVFKNRYSSESSNG

VIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTATESVRGVVQLSTVAQIRQGTLREGYAI

SPYTFMNSVATHEYKGVIRLGTQTEINNNLGGVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIMMFAGDSAPPG

WIMCHGGTVSGDQFPDYRNVVGTRFGGDWNNPGVPDMRGLFVRGAGTGGHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYNRSEGPFGASVYQGYLGTRRHSDWDNASYFTNDGFELGGPRDAHGT

LNREGLIGYETRPWNISLNYIIKVHY

>WBF04632.1 straight tail fiber [Escherichia phage HP3.2] (identical to HP3)

MSNNTYQHVSNESKYVKFDPTGSNFPGTVTTVQSALSKISNIGVNGIPDATMEVKGIAMIASEQEVLDGT

NNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLKGSDNNSSITPQKLKYHTDDVFKNRYSSESSNG

VIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTATESVRGVVQLSTVAQIRQGTLREGYAI

SPYTFMNSVATHEYKGVIRLGTQTEINNNLGGVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIMMFAGDSAPPG

WIMCHGGTVSGDQFPDYRNVVGTRFGGDWNNPGVPDMRGLFVRGAGTGGHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYNRSEGPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGPRDAHGT

LNREGLIGYETRPWNISLNYIIKVHY

>YP\_010673309.1 tail protein [Escherichia phage ES17]

MAIETNAVVVTDLNPLYPRDRDYIYEGAAQLRLVKQVLQNTFPNLTEPMTVNSDTLAAISDKISFAGDYM

DVGGLMIKNGTAGTGNNDFTTKAQMESFMLNWMQNKIYRVGSYYITEEDINPGDSTSLGFGIWTQVTGVI

MGAGVVTPDGTVPNAQRVEFTAGATGGRVYNTVKTENLPLTTISGSSFSLSNYTHSHTTSFGRGDASGHN

SSPNWYNPGVSYSVASSSDTHTHTITGDATFGYDDVSRQPINTLPPFRAAYIWRRIS

>URP85392.1 short tail fiber protein [Escherichia phage ES19]

MSNNTYQHVSNESKYVKFDPVGSNFPGTVTTVQSALSKISNIGVNGIPDATMEVKGIAMIASEQEVLDGT

NNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLKGSDNNSSITPQKLKYHTDDVFKNRYSSESSNG

VIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTATESVRGVVQLSTVAQIRQGTLREGYAI

SPYTFMNSVATHEYKGVIRLGTQTEINNNLGGVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIMMFAGDSAPPG

WIMCHGGTVSGDQFPDYRNVVGTRFGGDWNNPGVPDMRGLFVRGAGTGGHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYYRSEGPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGPRDAHGT

LNREGLIGYETRPWNISLNYIIKVHY

>VUF55728.1 Phage straight tail fiber (short tail fiber) [Escherichia phage T4\_ev240]

MSNNTYQHVSNESKYVKFDPTGSNFPDTVTTVQSALSKISNIGVNGIPDATMEVKGIAMIASEQEVLDGT

NNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLEGSDNNSSITPQKLKYHTDDVFQNRYSSESSNG

VIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTASESVRGVVQLSTVAQTRQGTLREGYAI

SPYTFMNSVATQEYKGVIRLGTQSEINSNLGDVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERIPVGTIMMFAGDSAPPG

WIMCHGGTVSGDQYPDYRNVVGGRFGGDWNNPGIPDMRGLFVRGAGTGGHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYQRHEAPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGPRDALGT

LNREGLIGYETRPWNISLNYIIKVHY

>WWE96754.1 short tail fiber protein [Escherichia phage ECp13]

MNNNTYQHVSNESKYVKFDPVGSNFPDTVTTVQSALSKISNIGVNGIPDATMEVKGIAMIASEQEVLDGT

NNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLEGSDNNSSITPQKLKYHTDDVFQNRYSSESSNG

VIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTASESVRGVVQLSTVAQTRQGTLREGYAI

SPYTFMNSVATQEYKGVIRLGTQSEINSNLGDVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDGSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIMMFAGDSAPPG

WIMCHGGTVSGDQYPDYRNTVGTRFGGDWNNPGIPDMRGLFVRGAGTGGHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYQRHEAPFGASVYQGYLGTRKYADWDNASYFTNDGFELGGPRDALGT

LNREGLIGYETRPWNISLNYIIKIHY

>UAW07460.1 short tail fiber protein [Escherichia phage ELT1]

MIASEQEVLDGTNNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLEGSDNNSSITPQKLKYHTDDV

FKNRYSSESSNGVIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTASESVRGVVQLSTVAQ

TRQGTLREGYAISPYTFMNSVATQEYKGVIRLGTQTEINNNLGDVAVTGETLNGRGATGSMRGVVKLTTQ

AGIAPEGDSSGALAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGT

IMMFAGDSAPPGWIMCHGGTVSGDQYPDYRNTVGTRFGGDWNNPGIPDMRGLFVRGAGTGGHILNQRGQD

GYGKDRLGVGCDGMHVGGVQAQQMSYHKHAGGWGEYNRSEGPFGASVYQGYLGTRKYSDWDNASYFTNDG

FELGGPRDALGTLNREGLIGYETRPWNISLNYIIKIHY

>AYR04078.1 short tail fibers protein [Escherichia phage OLB35]

MSNNTYQHVSNESVYVEFDPAGSNFDSSITNVQAALASISAYGVKGVPDASEAEKGVIQLATEQEVLDGF

NSTKAVTPATLNARLQYPNASETQYGVTKYATQEEAIAGTLDTVSITPLKLNQTIDNTFSTRYSTETTNG

VIKIATQTAALAGSDDTTAMTPLKTQQLAIKLISQIAPNNDPASESITGVVRLATVAQTRQGTLREGYAI

SPYTFMNSVATQEYKGVIRLGTQAEINSNLGDVAVTGETLNGRGATGSMRGVVKLTSQAGVAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIQMFAGDSAPPG

WVLCYGGTISGDQFPDYRNVVGTRFGGDWNNPGIPDMRGLFVRGAGTGSHILNNRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYQRHEAPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGHRDATGT

LNREGLIGYETRPWNISLNYIIKVHY

>QBP05781.1 straight tail fiber [Escherichia phage PHB12]

MSNNTYQHVSNESVYVEFDPTGSNFDSSITNVQAALASISAYGVKGVPDASEAEKGVIQLASEQEVLDGF

NSTKAVTPATLNARLQYPNASETQYGVTKYATQEEAIAGTLDTVSITPLKLNQTIDNTFSTRYSTETTNG

VIKIATQTAALAGSDDTTAMTPLKTQQLTIKLISQIAPNNDPASESITGVVRLATVAQTRQGTLREGYAI

SPYTFMNSVATQEYKGVIRLGTQAEINSNLGDVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIQMFAGDSAPPG

WVLCHGGTISGDQFPDYRNVVGTRFGGDWNNPGIPDMRGLFVRGAGTGSHILNNRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYQRHEAPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGHRDATGT

LNREGLIGYETRPWNISLNYIIKVHY

>UUB18284.1 straight tail fiber [Escherichia phage ST2]

MSNNTYQHVSNESVYVEFDPVGSNFDSSITNVQAALASISAYGVKGVPDASEAEKGVIQLATEQEVLDGF

NSTKAVTPATLNARLQYPNASETQYGVTKYATQEEAIAGTLDTVSITPLKLNQTIDNTFSTRYSTETTNG

VIKIATQTAALAGSDDTTAMTPLKTQQLAIKLISQIAPNNDPASESITGVVRLATVAQTRQGTLREGYAI

SPYTFMNSVATQEYKGVIRLGTQAEINSNLGDVAVTGETLNGRGATGSMRGVVKLTTQAGVAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIQMFAGDSAPPG

WVLCHGGTVSGDQFPDYRNVVGTRFGGDWNNPGIPDMRGLFVRGAGTGSHILNNRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYQRHEAPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGHRDATGT

LNREGLIGYETRPWNISLNYIIKVHY

>XAO15537.1 straight tail fiber protein [Escherichia phage FL31]

MSNNTYQHVSNESVYVEFDPVGSNFDSSITNVQAALASISAYGVKGVPDASEAEKGVIQLATEQEVLDGF

NSTKAVTPATLNARLQYPNASETQYGVTKYATQEEAIAGTLDTVSITPLKLNQTIDNTFSTRYSTETTNG

VIKIATQTAALAGSDDTTAMTPLKTQQLAIKLISQIAPNNDPASESITGVVRLATVAQTRQGTLREGYAI

SPYTFMNSVATQEYKGVIRLGTQAEINSNLGDVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIQMFAGDSAPPG

WVLCHGGTISGDQFPDYRNVVGTRFGGDWNNPGIPDMRGLFVRGAGTGSHILNNRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYQRHEAPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGHRDALGT

LNREGLIGYETRPWNISLNYIIKVHY

>YP\_010096283.1 tail collar fiber protein [Escherichia phage SF]

MSNNTYQHVSNESVYVEFDPTGSNFDSSVTNVQTALASISAYGVKGVPDASETEKGVIQLATEQEVLDGF

NSTKVVTPATLNARLQYPNASETQYGVTKYATQEEAIAGTLDTVSITPLKLDQTIDNTFSTRYSTETTNG

VIKIATQTAALAGSDDTTAMTPLKTQQLAIKLISQIAPNNDPASESITGVVRLATVAQTRQGTLREGYSI

SPYTFMNSVATQEYKGVIRLGTQAEINSNLGDVAVTGETLNGRGATGSMRGVVKLTTQAGVAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIQMFAGDSAPPG

WVLCHGGTISGDQFPDYRNVVGTRFGGDWNNPGIPDMRGLFVRGAGTGSHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYQRHEAPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGPRDALGT

LNREGLIGYETRPWNISLNYIIKVHY

>AAN03609.1 short tail fiber protein gp12 [Escherichia phage AR1]

MSNNTYQHVSNESKYVKFDPTGSNFPDTVTTVQSALSKISNIGVNGIPDATMEVKGIAMIASEQEVLDGT

NNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLEGSDNNSSITPQKLKYHTDDVFQNRYSSESSNG

VIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTASESVRGVVQLSTVAQTRQGTLREGYAI

SPYTFMNSVATQEYKGVIRLGTQSEINSNLGDVAVTGGTLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIMMFAGDSAPPG

WIMCHGGTVSGDQYPDYRNTVGTRFGGDWNNPGIPDMRGLFVRGAGTGGHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYNRSEGPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGPRDALGT

LNREGLIGYETRPWNISLNYIIKIHY

>QXN75861.1 short tail fiber protein [Escherichia phage BF15]

MSNNTYQHVSNESKYVKFDPTGSNFPDTVTTVQSALSKISNIGVNGIPDATMEVKGIAMIASEQEVLDGT

NNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLEGSDNNSSITPQKLKYHTDDVFQNRYSSESSNG

VIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTASESVRGVVQLSTVAQTRQGTLREGYAI

SPYTFMNSVATQEYKGVIRLGTQSEINSNLGDVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERVPVGTIMMFAGDSAPPG

WIMCHGGTVSGDQYPDYRNTVGARFGGDWNNPGIPDMRGLFVRGAGTGGHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYQRHEAPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGPRDALGT

LNREGLIGYETRPWNISLNYIIKIHY

>WBY52777.1 tail collar fiber protein [Escherichia phage REP2]

MSNNTYQHVSNESKYVKFDPTGSNFPGTVTTVQSALSKISNIGVNGIPDATMEVKGIAMIASEQEVLDGT

NNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLEGSDNNSSITPQKLKYHTDDVFQNRYSSESSNG

VIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTATESVRGVVQLSTVAQTRQGTLREGYAI

SPYTFMNSVATQEYKGVIRLGTQSEINSNLGDVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERIPVGTIMMFAGDSAPPG

WIMCHGGTVSGDQFPDYRNVVGTRFGGDWNNPGIPDMRGLFVRGAGTGGHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYNRSEGPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGPRDAHGT

LNREGLIGYETRPWNISLNYIIKVHY

>WEW53919.1 putative short tail fibers protein [Escherichia phage 107]

MSNNTYQHVSNESKYVKFDPTGSNFPGTVTTVQSALSKISNIGVNGIPDATMEVKGIAMIASEQEVLDGT

NNSKIVTPATLATRLLYPNATETKYGLTRYSTNEETLEGSDNNSSITPQKLKYHTDDVFQNRYSSESSNG

VIKISSTPAALAGVDDTTAMTPLKTQKLAIKLISQIAPSEDTATESVRGVVQLSTVAQTRQGTLREGYAI

SPYTFMNSVATQEYKGVIRLGTQSEINSNLGDVAVTGETLNGRGATGSMRGVVKLTTQAGIAPEGDSSGA

LAWNADVINTRGGQTINGSLNLDHLTANGIWSRGGMWKNGDQPVATERYASERIPVGTIMMFAGDSAPPG

WIMCHGGTVSGDQFPDYRNVVGTRFGGDWNNPGIPDMRGLFVRGAGTGGHILNQRGQDGYGKDRLGVGCD

GMHVGGVQAQQMSYHKHAGGWGEYNRSEGPFGASVYQGYLGTRKYSDWDNASYFTNDGFELGGPRDAHGT

LNREGLIGYETRPWNISLNYIIKVHY