

Table S1. Homologous proteins to hypothetical protein HWB87_gp108 identified after a blast search in the NCBI.

Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. ident	Acc. Len	Accession
hypothetical protein HWB87_gp108 [<i>Escherichia</i> phage fp01]	<i>Escherichia</i> phage fp01	1183	1183	100%	0	100	585	YP_009841487.1
receptor-binding tail protein [<i>Escherichia</i> phage vB_EcoS_AKFV33]	<i>Escherichia</i> phage vB_EcoS_AKFV33	1165	1165	100%	0	98.29	585	YP_006382457.1
receptor-binding protein [<i>Escherichia</i> phage Lindwurm]	<i>Escherichia</i> phage Lindwurm	1165	1165	100%	0	98.29	585	UCR81047.1
receptor-binding tail protein [<i>Salmonella</i> phage L6jm]	<i>Salmonella</i> phage L6jm	1163	1163	100%	0	98.12	585	YP_009856550.1
receptor-binding tail protein [<i>Shigella</i> phage SSP1]	<i>Shigella</i> phage SSP1	1159	1159	100%	0	97.61	585	YP_009794581.1
hypothetical protein [<i>Shigella sonnei</i>]	<i>Shigella sonnei</i>	1158	1158	100%	0	97.61	585	EHE3968306.1
receptor-binding protein [<i>Salmonella</i> phage vB_SalS_SA001]	<i>Salmonella</i> phage vB_SalS_SA001	1156	1156	100%	0	97.09	585	QKE54301.1
hypothetical protein [<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Bareilly]	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Bareilly	1155	1155	100%	0	97.26	585	EBS4928543.1
receptor binding protein [<i>Escherichia</i> phage T5_ev212]	<i>Escherichia</i> phage T5_ev212	1155	1155	100%	0	97.26	585	VUF55714.1
hypothetical protein [<i>Escherichia</i> phage IME178]	<i>Escherichia</i> phage IME178	1153	1153	100%	0	96.92	585	QYC97283.1
receptor-binding protein [<i>Salmonella</i> phage SP01]	<i>Salmonella</i> phage SP01	1150	1150	100%	0	96.92	585	YP_009792475.1
hypothetical protein [<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Thompson]	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Thompson	1150	1150	100%	0	96.75	585	EBX4970993.1
receptor-binding protein [<i>Salmonella</i> phage LVR16A]	<i>Salmonella</i> phage LVR16A	1149	1149	100%	0	96.58	585	YP_009804278.1
putative receptor binding tail protein [<i>Escherichia</i> phage JLBYU43]	<i>Escherichia</i> phage JLBYU43	1149	1149	100%	0	96.75	585	UGO55636.1
receptor-binding tail tip protein [<i>Escherichia</i> phage IrisVonRoten]	<i>Escherichia</i> phage IrisVonRoten	1147	1147	100%	0	96.24	585	QXV80353.1
superinfection exclusion protein [<i>Salmonella</i> phage 8sent1748]	<i>Salmonella</i> phage 8sent1748	1147	1147	100%	0	96.07	585	QNI21575.1
super-infection exclusion protein [<i>Escherichia</i> phage phiLLS]	<i>Escherichia</i> phage phiLLS	1144	1144	100%	0	95.9	585	YP_009790180.1
receptor-binding tail tip protein [<i>Escherichia</i> phage DaisyDussoix]	<i>Escherichia</i> phage DaisyDussoix	1144	1144	100%	0	96.41	585	QXV77375.1

putative receptor binding protein [<i>Escherichia</i> phage JLBYU40]	<i>Escherichia</i> phage JLBYU40	1142	1142	100%	0	95.56	585	UGO55977.1
receptor-binding tail protein [<i>Salmonella</i> virus VSe12]	<i>Salmonella</i> virus VSe12	1140	1140	100%	0	95.38	585	YP_009849685.1
receptor-binding tail protein [<i>Escherichia</i> virus VEc33]	<i>Escherichia</i> virus VEc33	1139	1139	100%	0	95.21	585	YP_009853082.1
receptor-binding tail protein [<i>Escherichia</i> phage vB_Eco_mar004NP2]	<i>Escherichia</i> phage vB_Eco_mar004NP2	1138	1138	100%	0	95.21	585	YP_009824651.1
hypothetical protein HWD11_gp078 [Phage NBEco002]	Phage NBEco002	1138	1138	100%	0	95.38	585	YP_009856968.1
receptor-binding protein [<i>Escherichia</i> phage chee24]	<i>Escherichia</i> phage chee24	1137	1137	100%	0	95.04	585	YP_009795148.1
receptor binding protein [<i>Escherichia</i> phage T5_ev219]	<i>Escherichia</i> phage T5_ev219	1135	1135	100%	0	95.04	585	VUF55778.1
receptor-binding tail protein [<i>Escherichia</i> phage phiAPCEc03]	<i>Escherichia</i> phage phiAPCEc03	1135	1135	100%	0	95.04	585	YP_009785263.1
receptor-binding protein [<i>Shigella</i> phage SHSML-45]	<i>Shigella</i> phage SHSML-45	1131	1131	100%	0	94.53	585	YP_009280207.1
receptor-binding protein [<i>Salmonella</i> phage GEC_vB_N3]	<i>Salmonella</i> phage GEC_vB_N3	1131	1131	100%	0	94.7	585	QPI15010.1
hypothetical protein [<i>Salmonella</i> <i>enterica</i> subsp. <i>enterica</i> serovar Virchow]	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Virchow	1079	1079	94%	0	95.65	553	EBS3195687.1
hypothetical protein VAH1_00171 [<i>Escherichia</i> phage vB_EcoS_VAH1]	<i>Escherichia</i> phage vB_EcoS_VAH1	984	984	86%	0	95.24	509	QBO80778.1
receptor binding protein [<i>Escherichia</i> virus DT57C]	<i>Escherichia</i> virus DT57C	903	903	100%	0	73.04	586	YP_009149909.1
receptor binding protein [<i>Salmonella</i> phage vB_StyS-LmqSP1]	<i>Salmonella</i> phage vB_StyS-LmqSP1	901	901	100%	0	72.87	586	QQM13691.1
hypothetical protein HASG4_00180 [<i>Escherichia</i> phage vB_EcoS_HASG4]	<i>Escherichia</i> phage vB_EcoS_HASG4	900	900	100%	0	73.21	586	QBO81433.1
receptor recognition protein [<i>Enterobacteria</i> phage D1G]	<i>Enterobacteria</i> phage D1G	888	888	98%	0	72.54	580	ACN72594.1
receptor-binding protein [<i>Salmonella</i> phage vB_SalS_ABTNLsp4]	<i>Salmonella</i> phage vB_SalS_ABTNLsp4	870	870	100%	0	72.99	595	QPI13164.1
receptor-binding protein [<i>Salmonella</i> phage vB_SenS_S124]	<i>Salmonella</i> phage vB_SenS_S124	866	866	100%	0	72.65	595	UDL14130.1
receptor-binding protein [<i>Salmonella</i> virus SPC35]	<i>Salmonella</i> virus SPC35	863	863	100%	0	72.65	595	YP_004306626.1
hypothetical protein [<i>Salmonella</i> phage vB_SalS_ABTNLsp9]	<i>Salmonella</i> phage vB_SalS_ABTNLsp9	863	863	100%	0	72.82	595	QPI13621.1
hypothetical protein [<i>Salmonella</i> <i>enterica</i> subsp. <i>enterica</i>]	<i>Salmonella enterica</i> subsp. <i>enterica</i>	862	862	100%	0	72.65	595	EDT3055638.1

receptor-binding protein [<i>Salmonella</i> phage Th1]	<i>Salmonella</i> phage Th1	862	862	100%	0	72.48	595	YP_009849830.1
hypothetical protein HWC04_gp081 [<i>Escherichia</i> phage vB_EcoS_HdH2]	<i>Escherichia</i> phage vB_EcoS_HdH2	860	860	100%	0	72.48	595	YP_009843474.1
receptor-binding protein [<i>Salmonella</i> phage vB_Sen-E22]	<i>Salmonella</i> phage vB_Sen-E22	860	860	100%	0	72.82	595	QJD49399.1
hypothetical protein HWD12_gp022 [Phage NBSal003]	Phage NBSal003	859	859	100%	0	72.65	595	YP_009857011.1
receptor binding protein [<i>Salmonella</i> phage NR01]	<i>Salmonella</i> phage NR01	858	858	100%	0	72.32	595	YP_009283429.1
receptor-binding protein [<i>Escherichia</i> phage OSYSP]	<i>Escherichia</i> phage OSYSP	853	853	100%	0	72.32	595	YP_009791022.1
hypothetical protein [<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Derby]	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Derby	853	853	100%	0	71.14	595	ECJ4201731.1
hypothetical protein [<i>Salmonella</i> phage vB_SenS_SB10]	<i>Salmonella</i> phage vB_SenS_SB10	839	839	100%	0	69.75	593	QFG07534.1
receptor-binding tail protein [<i>Salmonella</i> phage fuchur]	<i>Salmonella</i> phage fuchur	838	838	100%	0	69.75	593	YP_009858397.1
receptor-binding protein [<i>Salmonella</i> phage S116]	<i>Salmonella</i> phage S116	838	838	100%	0	69.58	593	YP_009805278.1
receptor binding protein [<i>Salmonella</i> phage BSP22A]	<i>Salmonella</i> phage BSP22A	837	837	100%	0	69.41	593	ARM69832.1
receptor-binding protein [<i>Salmonella</i> phage 1-23]	<i>Salmonella</i> phage 1-23	835	835	100%	0	69.58	593	YP_009819432.1
receptor-binding tail protein [<i>Salmonella</i> phage bux]	<i>Salmonella</i> phage bux	835	835	100%	0	69.41	593	QIQ61537.1
receptor-binding protein [<i>Salmonella</i> phage SE24]	<i>Salmonella</i> phage SE24	835	835	100%	0	69.75	593	YP_009848613.1
receptor-binding tail protein [<i>Salmonella</i> phage ende]	<i>Salmonella</i> phage ende	834	834	100%	0	69.37	590	QIN99960.1
receptor binding protein [Phage vB_SabS_Sds2]	Phage vB_SabS_Sds2	833	833	100%	0	69.41	593	QRV67772.1
receptor-binding tail protein [<i>Salmonella</i> phage vaffelhjerte]	<i>Salmonella</i> phage vaffelhjerte	833	833	100%	0	69.58	593	QIN99637.1
receptor-binding tail tip protein [<i>Escherichia</i> phage TrudiGerster]	<i>Escherichia</i> phage TrudiGerster	833	833	100%	0	69.37	590	QXV85240.1
hypothetical protein [<i>Salmonella enterica</i>]	<i>Salmonella enterica</i>	832	832	100%	0	69.24	593	ECJ3451677.1
receptor-binding tail tip protein [<i>Escherichia</i> phage TrudiRoth]	<i>Escherichia</i> phage TrudiRoth	832	832	100%	0	69.41	593	QXV85422.1
receptor-binding tail protein [<i>Salmonella</i> phage faergetype]	<i>Salmonella</i> phage faergetype	832	832	100%	0	69.24	593	YP_009858071.1

receptor-binding protein [<i>Escherichia</i> phage vB EcoS-261751]	<i>Escherichia</i> phage vB EcoS-261751	832	832	100%	0	69.04	590	QDJ99943.1
receptor binding protein [<i>Salmonella</i> phage S147]	<i>Salmonella</i> phage S147	831	831	100%	0	69.24	593	YP_009806052.1
hypothetical protein HWC64_gp078 [<i>Salmonella</i> phage OSY-STA]	<i>Salmonella</i> phage OSY-STA	831	831	100%	0	69.24	593	YP_009851883.1
receptor-binding protein [<i>Escherichia</i> phage saus132]	<i>Escherichia</i> phage saus132	831	831	100%	0	69.58	593	YP_009794986.1
receptor-binding tail protein [<i>Salmonella</i> phage rokbitter]	<i>Salmonella</i> phage rokbitter	830	830	100%	0	69.24	593	YP_009858234.1
receptor-binding tail protein [<i>Salmonella</i> phage smaug]	<i>Salmonella</i> phage smaug	829	829	100%	0	68.87	590	QIO00945.1
receptor-binding protein [<i>Salmonella</i> phage vB SenS SB9]	<i>Salmonella</i> phage vB SenS SB9	829	829	100%	0	69.41	593	QDH47394.1
receptor-binding tail protein [<i>Salmonella</i> phage bombadil]	<i>Salmonella</i> phage bombadil	828	828	100%	0	69.41	593	YP_009857907.1
receptor-binding tail protein [<i>Salmonella</i> phage Seabear]	<i>Salmonella</i> phage Seabear	828	828	100%	0	69.08	593	QCO65488.1
hypothetical protein HOT53_gp024 [<i>Salmonella</i> phage SH9]	<i>Salmonella</i> phage SH9	828	828	100%	0	69.08	593	YP_009804131.1
receptor-binding protein [<i>Salmonella</i> virus Stitch]	<i>Salmonella</i> virus Stitch	828	828	100%	0	69.08	593	YP_009146101.1
receptor-binding protein [<i>Salmonella</i> phage Seafire]	<i>Salmonella</i> phage Seafire	828	828	100%	0	69.41	593	YP_009816816.1
receptor-binding protein [<i>Salmonella</i> phage 2-3]	<i>Salmonella</i> phage 2-3	828	828	100%	0	69.24	593	YP_009852070.1
receptor-binding tail tip protein [<i>Escherichia</i> phage SelmaRatti]	<i>Escherichia</i> phage SelmaRatti	828	828	100%	0	69.97	595	QXV84460.1
FhuA receptor-binding tail protein [<i>Salmonella</i> phage Sepoy]	<i>Salmonella</i> phage Sepoy	828	828	100%	0	69.08	593	YP_009845375.1
receptor-blocking protein [<i>Salmonella</i> phage SE3]	<i>Salmonella</i> phage SE3	827	827	100%	0	69.24	593	QEG07468.1
receptor-binding tail protein [<i>Salmonella</i> phage rutana]	<i>Salmonella</i> phage rutana	827	827	100%	0	69.08	593	QIO02001.1
receptor-binding tail protein [<i>Salmonella</i> phage vB SenS-3]	<i>Salmonella</i> phage vB SenS-3	827	827	100%	0	68.87	590	QIN93530.1
hypothetical protein [<i>Salmonella</i> phage 8sent65]	<i>Salmonella</i> phage 8sent65	827	827	100%	0	69.24	593	QNI21950.1
receptor-binding tail protein [<i>Salmonella</i> phage polluks]	<i>Salmonella</i> phage polluks	827	827	100%	0	68.87	590	QIO00289.1
hypothetical protein [<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhimurium]	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Typhimurium	827	827	100%	0	68.91	593	EDV2866874.1

receptor-binding protein [<i>Escherichia</i> phage vB Eco mar003J3]	<i>Escherichia</i> phage vB Eco mar003J3	826	826	100%	0	69.24	593	YP_009824387.1
hypothetical protein [<i>Salmonella enterica</i> subsp. <i>enterica</i>]	<i>Salmonella enterica</i> subsp. <i>enterica</i>	822	822	100%	0	69.58	593	EDY0344208.1
hypothetical protein HWC37_gp093 [<i>Salmonella</i> phage vB SenS SB13]	<i>Salmonella</i> phage vB SenS SB13	821	821	100%	0	69.58	593	YP_009848214.1
receptor-binding protein [<i>Salmonella</i> phage STG2]	<i>Salmonella</i> phage STG2	820	820	100%	0	69.41	593	YP_009815133.1
receptor-binding protein [<i>Salmonella</i> phage JNwz02]	<i>Salmonella</i> phage JNwz02	820	820	100%	0	69.58	593	QYC50589.1
receptor-binding tail tip protein [<i>Escherichia</i> phage SuperGirl]	<i>Escherichia</i> phage SuperGirl	820	820	100%	0	69.41	593	QXV84736.1
receptor-binding tail tip protein [<i>Escherichia</i> phage HildyBeyeler]	<i>Escherichia</i> phage HildyBeyeler	820	820	100%	0	67.95	595	QXV80181.1
receptor-binding tail protein [<i>Salmonella</i> phage falkor]	<i>Salmonella</i> phage falkor	818	818	100%	0	69.24	593	QIO01834.1
receptor-binding tail protein [<i>Salmonella</i> phage STWB21]	<i>Salmonella</i> phage STWB21	815	815	100%	0	68.18	593	QTJ63420.1
receptor-binding tail protein [<i>Salmonella</i> phage Sw2]	<i>Salmonella</i> phage Sw2	805	805	100%	0	68.01	593	YP_009812307.1
receptor-binding protein [<i>Escherichia coli</i> phage vB EcoS Ace]	<i>Escherichia coli</i> phage vB EcoS Ace	803	803	100%	0	67.85	593	QNR52195.1
receptor-binding tail protein [<i>Salmonella</i> phage bastian]	<i>Salmonella</i> phage bastian	802	802	100%	0	67.56	593	YP_009858562.1
receptor binding protein [<i>Salmonella</i> phage 1-19]	<i>Salmonella</i> phage 1-19	800	800	100%	0	67.9	593	YP_009853229.1
receptor-binding tail protein [<i>Salmonella</i> phage gmork]	<i>Salmonella</i> phage gmork	800	800	100%	0	68.24	593	QIO01163.1
hypothetical protein [<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Hadar]	<i>Salmonella enterica</i> subsp. <i>enterica</i> serovar Hadar	798	798	100%	0	68.4	593	EDV1300518.1
receptor binding protein [<i>Salmonella</i> phage S132]	<i>Salmonella</i> phage S132	796	796	100%	0	67.73	593	YP_009805728.1
receptor-binding protein [<i>Salmonella</i> phage 100268 sal2]	<i>Salmonella</i> phage 100268 sal2	795	795	100%	0	67.73	593	YP_009320892.1
receptor-binding tail protein [<i>Salmonella</i> phage bobsandoy]	<i>Salmonella</i> phage bobsandoy	795	795	100%	0	67.73	593	QIO01330.1
receptor-blocking protein [<i>Salmonella</i> phage SP3]	<i>Salmonella</i> phage SP3	795	795	100%	0	66.44	595	YP_009804586.1