tail completion or Neck1 protein tail length tape measure protein virion structural protein		RNA ligase and tail fiber protein attachment catalyst deoxynucleoside monophosphate kinase RuvC-like Holliday junction resolvase DNA polymerase exonuclease subunit ribonucleoside diphosphate reductase small subunit anaerobic ribonucleotide reductase small subunit anaerobic ribonucleoside reductase small subunit anaerobic ribonucleoside reductase large subunit ATP-dependent DNA ligase
tail assembly chaperone DNA methyltransferase virion structural protein baseplate w terminase large subunit tail fiber protein distal tail protein baseplate spike tail protein baseplate spike tail protein baseplate hub tail fiber protein head decoration tail sheath tail protein central tail fiber	membrane protein RIIA lysis inh eplate protein HNH endonuclease endolysin tail fiber protein ATPase RIIB lysi r J tail fiber protein tail protein ATPase	MTase_II_00041 Type DNA methyltransferase PhoH-like phosphate starvation-inducible HNH endonuclease nibitor ribonucleotide reductase endonuclease DNA primase/helicase virion structural protein ribonucleotide reductase large subunit transposase replication initiation protein is inhibitor DNA polymerase phosphatase transcriptional regulator ATP-dependent protease unknown function endolysin ATPase Rz-like spanin
Bas57 1:135061(+) terminase large subunit		HNH endonuclease DNA polymerase anaerobic ribonucleoside reductase large subunit endonuclease VII
Bas56 1:135345(+)		DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA p
Bas51 1:140659(+)		endonuclease endonuclease endonuclease phosphatase HNH endonuclease phosphatase ###################################
Bas50 1:138240(+) DNA methyltransferase Bas48 1:137623(+)		DNA methyltransferase
Bas49 1:139980(+) M	endolysin	HEase_00016 homing HEase_00016 homing HEase_00016 homing HEase_00016 homing
Bas53 1:135602(+) DNA methyltransferase Bas55 1:135630(+)	endolysin	virion structural protein Virion structural protein WHANG AND
Bas54 1:136346(+) terminase large subunit Bas52 1:137380(+)		DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA polymerase DNA p
		endonuclease HNH endonuclease DprA-like DNA recombination-mediator protein PhoH-like phosphate starvation-inducible
tail completion or Neck1 protein tail length tape measure protein DNA methyltransferase colanic acid degrada	dation DNA primase/helicase membrane protein ribo	Ninl-like serine-threonine phosphatase Capsular polysaccharide (VF0624) dTDP-4-dehydrorhamnose 3 ribonucleotide reductase NrdA-like RNA amidotransferase tRNA amidotransferase conucleotide reductase thioredoxin domain histidyl tRNA synthetase thioredoxin domain hNH endonuclease ribose-phosphate pyrophosphokinase
Bas62 1:144831(+) tail spike protein tail spike protein	tail protein DNA polymerase I glycosyltransferase phosphatase AT	Pase DNA helicase ATPase PDC-M42C_WP_117837142.1 membrane protein DNA invertase thymidine kinase phosphoesterase Rz-like spanin WWW. WWW. WWW. WWW. WWW. WWW. WWW. WW
Bas60 1:150425(+) Bas61 1:146666(+)		
trim_DfrA10-NCBIFAM trimethoprim-resistant dihydrofolate redutail completion or Neck1 protein tail length tape measure protein baseplate wedge subunit tail assembly chaperone tail assembly chaperone thymidylate synthase	NrdD-like anaerobic ribonucleotide reductase large subunit anaerobic ribonucleoside reductase large subunit ribose-phosphate pyrophosphokinase ucleoside monophosphate kinase polynucl	leotide kinase
	uuclease MazG-like pyrophosphatase RIIB lysis in minor tail protein NAD synthetase membrane protein R polymerase exonuclease membrane protein RIIA lysis inhibit	Rz-like spanin endolysin
tail length tape measure protein head scaffolding protein head-tail adaptor Ad1 queuine tRNA-ribosyltra terminase large subunit	omain-containing protein ty factor Sak4-like ssDNA annealing protein ransferase RusA-like Holliday junction resolvase peptidase HsIV fa Cas4-domain exonuclease GTP-binding domain t	terminase small subunit
minor tail protein DNA polymerase portal protein tail terminator tail fiber protein Dpd_Folf	od_QueC ATP-dependent DNA ligase HNH endonucleas Dpd_QueE dUTPase endolysin IE DNA helicase Rnase H DNA primase holin	
Bas21 1:56589(+)		
Bas22 1:58567(+)		
Hoc-like head decoration L-glutamine-D-fructose-6-phosphate		
Bas19 1:58073(+) tail fiber protein	Rnase H protease Rz-like spanin holin HNH endonuclease pyrophosphatase	
Bas 20 1:59834(+) tail completion or Neck1 protein head maturation protease collar tail protein for L-shaped tail fibre attachment base plate tail tube protein Tail assembly chaperone SbcD-like subunit of palindrom single strand DN	me specific endonuclease NA binding protein	
tail assembly chaperone tail length tape measure protein	NAD-dependent DNA ligase NAD-dependent DNA ligase solvaseDnaB-like replicative helicase Sir2 (NAD-dependent deacetylase) transcriptional regulator pruclease transcriptional regulator PhoH-like phosphate starvation-ind DNA primase DNA binding protein tail length tape measure prot	endonuclease nicking abasic sites generated by host uracil glycosylase Ung orf148 broad-spectrum counter-defense (APIS035) anti-termination protein Q-like deoxynucleoside monophosphate kinase receptor binding tail protein tRNA amidotransferase ATP-dependent protease DNA binding protein ducible HNH endonuclease major head protein polynucleotide kinase tein exonuclease DNA primase Rz-like spanin membrane protein ate reductase endolysin HEase_00001 homing endolysin membrane protein
tail proteintail terminator central tail fiber J tail fiber protein mads_3 D Bas33 1:111607(+) endonuclease tail protein endonuclease tail protein tail protein	DNA helicase helicase homing endonuclease	Rnase H lipoprotein Rz-like spanin holin phosphoesterase DNA transfer protein terminase small subunit
Bas 32 1:112239(+) tail fiber protein Bas 31 1:113532(+)	HNH endonuclease	Thioredoxin domain Children
collar tail protein for L-shaped tail fibre attachment endonuclease tail fibre rotein T5 1:121750(+)		HEase_00002 homing Cor superinfection exclusion protein (III) WARRANT COMMON CONTROL
tail protein endonuclease tail protein Bas34 1:107080(+)		PnuC-like nicotinamide mononucleotide transport
Bas26 1:114196(+)		nicotinamide-nucleotide adenylyltransferase HEase_00016 homing tail fiber protein HNH endonuclease Rz-like spanin WYNDWYD WYNDWYD DYWYD DYDD DYWYD DYWYD DYWD DYWYD DYWYD DYWYD DYWD DYWYD DYWD DYWD DYWYD DYDD DYWYD DYWD DYWD DYWD DYDD DYDD DYWYD DYWD DYDD DYWYD DYDD DYDD DYWYD DYDD DYWYD DYDD DD
Bas28 1:115446(+) structural protein with Ig domain		HNH endonuclease Delian line Delian lin
Bas29 1:110821(+) endonuclease		phosphoesterase Deligible
Bas27 1:114179(+)		nucleoside triphosphate pyrophosphohydrolase Mrh transcription modulator under heat shock Mrh transcription modulator under heat shock
minor head protein inhibitor of protease UvsY-like recombination mediator baseplate hub subunit and tail length baseplate hub distal subunit head maturation protease baseplate wedge subunit	hinge connector of long tail fi late promoter transcriptional regulator single strand DNA binding protein	
Hoc-like head decoration Alt-like RNA polymerase ADP-ribosyl head scaffolding protein HEase_00005 homing ATP-depender head scaffolding protein unknown function DNA helicase baseplate tail tube cap baseplate hub portal protein baseplate hub	yltransferase inhibitor of host transcription long tail fiber protein protein protein DNA ligase dihydrofolate reductase head morphogenesis homing endonuclease transcriptional regulator polynucleotide kinase DNA helicase loader unknown function unknown function dCMP deaminase unknown function tail fiber protein proximal su	roximal connector outer membrane protein virion structural protein DNA polymerase processivity factor Arn anti-RM (APISO18) Srd anti-sigma factor Dmd anti-TA (APISO13) clamp loader of DNA polymerase unknown function periplasmic protein unknown function decoy of host sigma32 thymidylate synthase unknown function unknown function spackle periplasmic with unknown function endoribonuclease UNA end protector tail collar fiber protein
tal sheath prohead RNA ligar DNA helicase tail tube	nown function Rz-like spanin unknown function lysis inhibition endonuclease exonuclease homing endonuclease	tail fiber assembly unknown. Tion Dda-like helicase head protein DNA polymerase RNA polymerase sigma factor unknown function helicase loader unknown function helicas
Bas39 1:169509(+) Hoc-like head decoration Bas40 1:164714(+)	homing endonuclease	
Hoc-like head decoration Bas41 1:165574(+)		RIJA lysis inhibitor RIJA lysis inhibitor Company C
Bas42 1:168255(+)	fibonucleotide reductase class la beta subunit erobic NDP reductase small subunit HEase_00032 homing	
Bas45 1:170053(+) homing endonuclease Bas38 1:167411(+)	homing endonuclease	Ndd-like nucleoid disruption protein anti-restriction nuclease Ndd-like nucleoid disruption protein virion structural protein homing endonuclease Ndd-like nucleoid disruption protein virion structural protein homing endonuclease Ndd-like nucleoid disruption protein virion structural protein homing endonuclease Ndd-like nucleoid disruption protein virion structural protein homing endonuclease Ndd-like nucleoid disruption protein virion structural protein homing endonuclease
Bas36 1:167732(+)	thymidylate synthase thymidylate synthase HEase_00030 homing long tail fibe	er protein distal subunit unknown function homing endonuclease homing endonuclease D D M K M M K M M K M K M K M K M K M K
Bas37 1:167832(+)	homing endonuclease thymidylate synthase HEase_00030 homing unknown function long tail f	oMTase_00011 orphan HNH endonuclease
Bas35 1:166861(+)	inhibitor of host transcription nhibitor of host transcription ribonucleotide reductase class la beta subuni	unknown function er protein distal subunit unknown function unknown function UNKNOWN (NOWN)
homing endonuclease Bas43 1:166115(+)	ribonucleotide reductase class la beta subunit aerobic NDP reductase small subunit HEase_00032 homing homing endonuclease	homing endonuclease HNH endonuclease homing endonuclease NNA ligase RNA ligase RNA ligase homing endonuclease NNA ligase RNA ligase homing endonuclease
Hoc-like head decoration Hoc-like head decoration homing endonuclease DNA helicase homing endonuclease DNA helicase	thymidylate synthase homing endonuclease thymidylate synthase long HEase_00030 homing	ng tail fiber protein distal subunit DNA topoisomerase II unknown function homing endonuclease HEase_00030 homing HEase_00004 homing homing endonuclease
Hoc-like head decoration Hoc-like head decoration Hoc-like head decoration T2 1:163832(+)		RNA polymerase ADP-ribosylase internal head protein oMTase_00011 orphan homing endonuclease unknown function
homing endonuclease	ribonucleotide reductase class la beta subunit aerobic NDP reductase small subunit thymidylate synthase homing endonuclease thymidylate synthase HEase_00030 homing homing endonuclease	FmdB-like transcriptional regulator DNA topoisomerase II homing endonuclease DNA topoisomerase II homing endonuclease DNA topoisomerase II homing endonuclease beta-glucosyltransferase periplasmic protein unknown function HEase_00004 homing homing endonuclease unknown function homing endonuclease unknown function homing endonuclease unknown function homing endonuclease unknown function homing endonuclease
T4D 1:168903(+) prohead phospho-2-	e-dehydro-3-deoxyheptonate aldolase	arabinose 5-phosphate isomerase phosphoheptose isomerase thymidylate kinase thymidylate kinase unknown function membrane protein lpll anti-RM (APISO15) uti-restriction nuclease Mrh transcription modulator under heat shock peptidase RNA polymerase binding unknown function helicase loader internal head protein head closure
Bas47 1:168968(+) prohead phospho-2-d	dehydro-3-deoxyheptonate aldolase anti-	arabinose 5-phosphate isomerase phosphoheptose isomerase thymidylate kinase restriction nuclease Mrh transcription modulator under heat shock peptidase RNA polymerase binding unknown function helicase loader internal virion protein homing endonuclease head closure
Bas46 1:169031(+) tail length tape measure protein tail completion or Neck1 protein tail length tape measure protein	The region of the property of	The control of the co
tail length tape measure protein virion structural protein head maturation protease terminase large subunit head morphogenesis head closure Hc1 minor tail protein major head protein minor tail protein single strand DNA binding protein		
major tail protein tail protein exonuclease VIII tail terminator tail protein DNA primase Bas05 1:47775(+) tail length tape measure protein	DNA helicase terminase small subunit holin HNH endonuclease	
outer membrane protein membrane associated protein tail fiber protein BasO4 1:51777(+) tail length tape measure protein	polynucleotide kinase	
BasO6 1:51474(+) outer membrane protein BasO7 1:51129(+)	polynucleotide kinase	
Bas11 1:49715(+) Bas10 1:49911(+)		
Cor anti-superinfection exclusion (APISO32) tail length tape measure protein membrane associated protein outer membrane protein transcriptional regulations of the second	gulator DDD ND WOODKK	
tail length tape measure protein tail length tape measure protein tail length tape measure protein transcriptic Bas08 1:50731(+)	onal regulator	
tail length tape measure protein outer membrane protein Bas12 1:49298(+) tail length tape measure protein	holin DNA methyltransferase RNA-binding protein	
Bas13 1:50192(+) tail length tape measure protein membrane associated protein tail completion or Neck1 protein outer membrane protein virion structural protein virion structural protein tail fiber protein	Rz-like spanin polynucleotide kinase	
BasO3 1:47731(+) OMTase_00015 orphan BasO2 1:47149(+)	holin HNH endonuclease	
	protein and ssDNA annealing protein	
	ase replicative helicase-primase ymerase transposase endolysin	
Bas 15 1:44550(+) holin holin head scaffolding protein		
Bas18 1:44882(+) RusA-like Holliday junction resolvase tail fiber pro	otein	
Bas14 1:43627(+) tail fiber	r protein tail fiber protein	
Bas17 1:43104(+) RexAB_RexB Memb	nbrane-anchored ion channel, Abi component NinB/ Orf homologous recombination mediator NinG/ Rap DNA junction specific endonuclease phosphoadenosine phosphosulfate reductase cterial septation inhibition	
RecT-like ssDNA DksA-like zinc-fing DNA packaging chaperone FI Gam anti-Re	A annealing protein CII-like transcriptional activator ger protein RecBCD (APIS092) superinfection exclusion	
head closure Hc1 Ral arminor tail protein PDC-M01B_WP_073256955.1 unknown head decoration minor tail protein tail fiber protein excisionase major tail protein tail fiber protein exonuc portal protein tail terminator Ail (VF0132) integrase	anti-RM (APIS009)	
Lambda 1:48502(+) PmgG-like head morphogenesis PmgC-like head morphogenesis PDC-M04B_WP_210387105.1 PDC-M04A_WP_207706624.1 ParB-like partition protein PmgB-like head morphogenesis Hdf-like	RM_Type_III_Type_III_REasesType_III_t single strand DNA binding protein v-like anti-restriction protein rmining protein Ref-like RecA fila e antirestriction	DNA polymerase III theta subunit TciB-like inhibition of cell division or resistance to colicin Lpa-like transcriptional activator baseplate hub subunit and tail lysozyme ament endonuclease PmgS-like head morphogenesis DnaB-like replicative helicase UmuD-like protein baseplate wedge subunit nucleoside triphosphate pyrophosphohydrolase
ParA-like partition protein tail tube protein tail fiber assembly protein DNA inversesor tail sheath anti-repressor tail fiber protein	vertase transposase portal protein methyltransferase otein endolysin transposase nolin holin DarB anti-RM (APISO30)	Phd-like antitoxin baseplate protein HNH endonuclease tail protein tellurite resistance Doc-like toxin glycosyltransferase tail protein exonuclease recombination-associated terminase tail protein DNA methyltransferaselipoprotein
baseplate assembly protein Old_exonuclease_Old_exonuclease baseplate wedge subunit terminase small subunit head-tail adaptor Ad1 Cox-like excision head scaffolding protein baseplate protein tail length tape measure prote Rz-like spanin transcriptional re	egulator	
baseplate hub transcription terminase large subunit tail terminator Rz-like spanin head closure tail protein nicking at origin of replication endolysin tail fiber protein tail protein	onal regulator ase replication initiation protein	
P2 1:33593(+) tail length tape measure protein tail sheath and receptor binding protein tail assembly protein	superinfec Hoc-like N4 Sak4-like ssDNA annealing protein membrar single strand DNA binding protein Dda-like helicase HNH endonuclease	
virion structural protein endolysin virion structural protein	DNA polymerase dCTP deaminase RI ti-Thoeris (APIS079) exonuclease RIIB lysis inhibitor endonucle rase DNA primase RIIA lysis inhibitor lipopro	RNA polymerase unknown function ease unknown function otein unknown function Out of the control
Bas69 1:70849(+) Gp2.5-like ssDNA binding protein and ssDNA annealing protein internal virion protein.	HNH endonuclease DNA polymerase DNA polymerase NA POLYMERA (NA POLYMERA) protein with endolysin domain	
host range and adsorption protein HOS17_gp01 anti-BREX (APIS091) Gp5.5-like host HNS inhibition internal virion protein RNA polymerase inhibitor major head protein dGTPase inhibitor head-tail adaptor internal virion protein N4-like RNA polymerase anti-TA (APIS080) head protein serine-threonine kinase endonuclease head assembly internal virio nucleotide kinase DNA polymerase I tail protein	otein rotein terminase small subunit on protein Rz-like spanin tail fiber protein	
terminase large subunit DNA ligase amidase exonuclease tail protein Bas68 1:39466(+) Serine-threonine kinase HNH endonuclease nucleotide kinase host RecBCD nuclease inhibitor	holin	
Bas67 1:39315(+) HNH endonuclease gp5.9 anti-RecBCD (APISO23) Ocr anti-BREX (APISO10) endonuclease host range and adsorption prof	itein	
Bas64 1:39842(+) HNH endonuclease		
gp4.5 anti-TA (APISO11) RNA polymerase inhibitor HNH endonuclease structural protein w Bas66 1:38194(+)		
Bas66 1:38194(+) 60000 nt	ıt	anscription regulation unknown function defence (DefenseFinder) defence (PADLOC) virulence anti-defence AMR tRNA pseudogene