

Table S1: Salten CDSs list after BV-BRC annotation.

CDS	Start	End	Length	Strand	AA Length	Product	Function
CDS1	1	735	735	-	244	dmp	Second step DNA insertion [46]
CDS2	815	1207	393	-	130	Phage protein	
CDS3	1274	2944	1671	-	556	A1 protein	Second step DNA insertion [46]
CDS4	3042	3239	198	-	65	Phage protein	
CDS5	3298	3714	417	-	138	A2 protein	Second step DNA insertion
CDS6	3813	4064	252	-	83	Phage protein	
CDS7	4212	4325	114	+	37	hypothetical protein	
CDS8	4353	4508	156	+	51	hypothetical protein	
CDS9	4501	4659	159	-	52	hypothetical protein	
CDS10	4715	4936	222	-	73	hypothetical protein	
CDS11	5010	5102	93	+	30	hypothetical protein	
CDS12	5455	5607	153	+	50	hypothetical protein	
CDS13	5627	5740	114	+	37	Phage protein	
CDS14	5860	6087	228	+	75	Phage protein	
CDS15	6134	6289	156	+	51	Phage protein	
CDS16	6283	6495	213	+	70	Phage protein	
CDS17	6495	6608	114	+	37	hypothetical protein	
CDS18	6602	6949	348	+	115	Phage protein	
CDS19	6942	7079	138	+	45	hypothetical protein	
CDS20	7076	7174	99	+	32	hypothetical protein	
CDS21	7191	7310	120	-	39	hypothetical protein	
CDS22	7634	7864	231	-	76	hypothetical protein	
CDS23	7924	8202	279	-	92	hypothetical protein	
CDS24	8195	8314	120	-	39	hypothetical protein	
CDS25	8648	8746	99	+	32	hypothetical protein	
CDS26	8855	8947	93	+	30	hypothetical protein	

CDS27	8904	9791	888	-	295	Phage protein	
CDS28	9861	10109	249	-	82	hypothetical protein	
CDS29	10109	10720	612	-	203	Phage protein	
CDS30	10720	10905	186	-	61	Phage protein	
CDS31	10905	11138	234	-	77	Phage protein	
CDS32	11349	11867	519	-	172	Phage protein	
CDS33	11913	12110	198	-	65	Phage protein	
CDS34	12207	12335	129	-	42	Phage protein	
CDS35	12346	12729	384	-	127	Phage capsid and scaffold	
CDS36	12671	13138	468	-	155	Phage protein	
CDS37	13135	13335	201	-	66	Phage protein	
CDS38	13435	13761	327	-	108	Phage protein	
CDS39	13751	13993	243	-	80	Phage protein	
CDS40	13990	14271	282	-	93	Phage protein	
CDS41	14271	14435	165	-	54	Phage protein	
CDS42	14435	14686	252	-	83	Phage protein	
CDS43	14765	15196	432	-	143	Phage protein	
CDS44	15249	15371	123	-	40	hypothetical protein	
CDS45	15364	15954	591	-	196	Phosphoesterase	
CDS46	15954	16241	288	-	95	hypothetical protein	
CDS47	16241	17092	852	-	283	putative serine/threonine protein phosphatase	Host or viral protein degradation [47] [48]
CDS48	17095	17340	246	-	81	Phage protein	
CDS49	17345	17722	378	-	125	Phage protein	
CDS50	17850	18140	291	-	96	Thioredoxin, phage-associated	Enzyme maturation
CDS51	18137	18664	528	-	175	Phage HNH homing endonuclease (ACLAME 27)	
CDS52	18661	19065	405	-	134	Phage protein	
CDS53	19141	19563	423	-	140	Phage protein	

CDS54	19637	20050	414	-	137	endolysin	Perforation of the host membrane [49]
CDS55	20047	20730	684	-	227	Phage holin	Perforation of the host membrane [49]
CDS56	20879	21460	582	-	193	ATP-dependent Clp protease proteolytic subunit ClpP (EC 3.4.21.92)	Host or viral protein degradation [47] [48]
CDS57	21473	22225	753	-	250	dNMP kinase	
CDS58	22225	22578	354	-	117	Phage protein	
CDS59	22509	22952	444	-	147	Phage protein	
CDS60	22949	23629	681	-	226	Phage protein	
CDS61	23784	24131	348	-	115	Phage protein	
CDS62	24128	24625	498	-	165	Phage HNH homing endonuclease (ACLAME 27)	
CDS63	24739	25023	285	-	94	Phage protein	
CDS64	25020	25316	297	-	98	Phage protein	
CDS65	25294	25713	420	-	139	Phage protein	
CDS66	25682	25987	306	-	101	Phage protein	
CDS67	25989	26192	204	-	67	hypothetical protein	
CDS68	26192	26470	279	-	92	Phage protein	
CDS69	26547	26894	348	-	115	Phage protein	
CDS70	27016	27192	177	-	58	Phage protein	
CDS71	27251	27412	162	-	53	hypothetical protein	
CDS72	27412	27780	369	-	122	2-ketobutyrate formate-lyase (EC 2.3.1.-) Pyruvate formate-lyase (EC 2.3.1.54)	
CDS73	28068	28358	291	-	96	Phage protein	
CDS74	28518	28682	165	-	54	Phage protein	
CDS75	28675	28926	252	-	83	Phage protein	
CDS76	29190	29426	237	-	78	hypothetical protein	

CDS77	29419	29616	198	-	65	Phage protein	
CDS78	29793	29933	141	+	46	hypothetical protein	
CDS79	29930	30097	168	+	55	hypothetical protein	
CDS80	30084	30173	90	+	29	hypothetical protein	
CDS81	30288	30518	231	-	76	hypothetical protein	
CDS82	30815	31078	264	-	87	Phage protein	
CDS83	31284	31373	90	-	29	hypothetical protein	
CDS84	31632	31769	138	+	45	hypothetical protein	
CDS85	31762	31875	114	+	37	hypothetical protein	
CDS86	32070	32288	219	+	72	hypothetical protein	
CDS87	32280	32627	348	-	115	Phage protein	
CDS88	32735	32893	159	-	52	hypothetical protein	
CDS89	32997	33182	186	-	61	Phage protein	
CDS90	33668	33940	273	-	90	Phage protein	
CDS91	34219	34386	168	+	55	hypothetical protein	
CDS92	34494	34769	276	-	91	Phage protein	
CDS93	34860	35066	207	-	68	Phage protein	
CDS94	35059	35226	168	-	55	Phage protein	
CDS95	35325	35414	90	-	29	hypothetical protein	
CDS96	35420	35605	186	-	61	Phage antitermination protein Q	
CDS97	35615	35803	189	-	62	hypothetical protein	
CDS98	36017	36586	570	-	189	Phage protein	
CDS99	36612	36740	129	-	42	hypothetical protein	
CDS100	36821	37768	948	-	315	Phage protein	
CDS101	37947	38060	114	-	37	hypothetical protein	
CDS102	38152	38352	201	+	66	hypothetical protein	
CDS103	38576	39058	483	-	160	Phage-associated homing endonuclease	
CDS104	39102	39545	444	-	147	Phage protein	
CDS105	39545	39715	171	-	56	Phage protein	

CDS106	39784	40233	450	-	149	Phage protein	
CDS107	40239	40556	318	-	105	Phage protein	
CDS108	40572	40676	105	-	34	hypothetical protein	
CDS109	40999	41637	639	-	212	Phage tail fibre protein	
CDS110	41691	41873	183	-	60	Phage protein	
CDS111	41945	42646	702	-	233	Metallopeptidase, phage-associated	
CDS112	42675	42911	237	-	78	Phage protein	
CDS113	42953	43468	516	-	171	Phage protein	
CDS114	43552	43830	279	-	92	Phage protein	
CDS115	43907	44383	477	-	158	Phage ribonuclease H (EC 3.1.26.4)	
CDS116	44383	44652	270	-	89	hypothetical protein	
CDS117	44652	44933	282	-	93	hypothetical protein	
CDS118	45031	45870	840	-	279	Thymidylate synthase (EC 2.1.1.45)	Nucleotides metabolism [50]
CDS119	45870	46400	531	-	176	Dihydrofolate reductase, phage-associated	nucleotides metabolism [50]
CDS120	46397	47542	1146	-	381	Ribonucleotide reductase of class Ia (aerobic), beta subunit (EC 1.17.4.1)	nucleotides metabolism [51]
CDS121	47561	47674	114	-	37	hypothetical protein	
CDS122	47649	50087	2439	-	812	Ribonucleotide reductase of class Ia (aerobic), alpha subunit (EC 1.17.4.1)	Nucleotides metabolism [51]
CDS123	50127	50324	198	-	65	Phage protein	
CDS124	50326	51078	753	-	250	Phage phosphate starvation-inducible protein PhoH (ACLAME 589)	

CDS125	51095	51199	105	+	34	hypothetical protein	
CDS126	51452	53326	1875	+	624	Ribonucleotide reductase of class III (anaerobic), large subunit (EC 1.17.4.2)	Nucleotides metabolism [51]
CDS127	53426	53665	240	+	79	Phage protein	
CDS128	53662	54060	399	+	132	Phage protein	
CDS129	54035	54241	207	+	68	Phage protein	
CDS130	54210	54404	195	+	64	Phage protein	
CDS131	54404	55228	825	+	274	NAD-dependent protein deacetylase of SIR2 family	
CDS132	55219	55401	183	+	60	Phage protein	
CDS133	55388	55894	507	+	168	Phage protein	
CDS134	55897	56325	429	+	142	Phage protein	
CDS135	56335	56727	393	+	130	Phage protein	
CDS136	56762	56863	102	+	33	hypothetical protein	
CDS137	56996	57148	153	+	50	hypothetical protein	
CDS138	57293	60229	2937	+	978	hypothetical protein	
CDS139	60216	60449	234	+	77	Phage protein	
CDS140	60521	61225	705	+	234	Phage DNA helicase	DNA transcription and replication
CDS141	61218	61469	252	+	83	Transcriptional regulator	
CDS142	61573	61983	411	+	136	DNA-binding protein	
CDS143	61998	62285	288	+	95	Phage protein	
CDS144	62336	62644	309	+	102	Transcriptional regulator	
CDS145	62731	63003	273	+	90	hypothetical protein	
CDS146	63004	63975	972	+	323	DNA ligase, phage-associated	DNA transcription and replication
CDS147	63948	64070	123	+	40	hypothetical protein	

CDS148	64178	64957	780	+	259	DNA ligase, phage-associated	DNA transcription and replication
CDS149	64950	65717	768	+	255	Transcriptional regulator	
CDS150	65777	66358	582	+	193	hypothetical protein	
CDS151	66351	67817	1467	+	488	Phage DNA helicase	DNA transcription and replication
CDS152	67814	68344	531	+	176	Phage protein, contains HNH endonuclease motif	
CDS153	68341	69231	891	+	296	Phage DNA primase/helicase	DNA transcription and replication
CDS154	69384	71861	2478	+	825	DNA polymerase, phage-associated	DNA transcription and replication
CDS155	71854	72351	498	+	165	Phage protein	
CDS156	72348	73700	1353	+	450	Phage DNA helicase	DNA transcription and replication
CDS157	73921	74205	285	+	94	Phage protein	
CDS158	74198	74971	774	+	257	DNA-binding protein	
CDS159	75008	75985	978	+	325	Phage-associated recombinase	Detection and repair of double-stranded
CDS160	75966	77804	1839	+	612	Phage recombination related exonuclease (EC 3.1.11.-)	DNA breaks. Orthologous to Mre11 - Rad50 (eukaryotes), SbcCD (prokaryotes), gp46/gp47 (T4), gpD13/gpD12 (T5) [52]
CDS161	77808	78290	483	+	160	Phage protein	

CDS162	78290	79165	876	+	291	Phage endonuclease	DNA transcription and replication
CDS163	79162	79608	447	+	148	Deoxyuridine 5'-triphosphate nucleotidohydrolase (EC 3.6.1.23)	Removing excess of dUTP mistakenly incorporated into DNA [53]
CDS164	79625	79834	210	+	69	Phage protein	
CDS165	79875	84026	4152	-	1383	Phage long tail fibre pb1	
CDS166	84026	84448	423	-	140	p132	
CDS167	84453	86555	2103	-	700	pb4	
CDS168	86556	89405	2850	-	949	pb3	
CDS169	89402	90016	615	-	204	pb9	
CDS170	90019	90108	90	-	29	hypothetical protein	
CDS171	90126	93833	3708	-	1235	pb2	
CDS172	93918	94286	369	-	122	Phage protein	
CDS173	94348	94752	405	-	134	Phage protein	
CDS174	94752	95648	897	-	298	p140	
CDS175	95653	97044	1392	-	463	Phage major tail protein pb6	
CDS176	97071	97559	489	-	162	p142	
CDS177	97563	98330	768	-	255	Phage protein	
CDS178	98330	98842	513	-	170	Phage protein	
CDS179	98895	99494	600	-	199	hypothetical protein	
CDS180	99551	100927	1377	-	458	Phage capsid and scaffold	
CDS181	100945	101577	633	-	210	Phage capsid and scaffold	
CDS182	101581	101904	324	-	107	Phage tail fibre	
CDS183	101907	103118	1212	-	403	Phage portal (connector) protein	
CDS184	103118	103555	438	-	145	Phage protein	
CDS185	103545	104219	675	-	224	Phage protein	

CDS186	104179	104379	201	-	66	Phage protein	
CDS187	104391	105707	1317	-	438	Phage terminase, large subunit	DNA packaging [46]
CDS188	105707	106189	483	-	160	Phage terminase, small subunit	DNA packaging [54]
CDS189	106200	107981	1782	-	593	RBP pb5	
CDS190	108065	108331	267	+	88	Phage protein	
CDS191	108406	108708	303	+	100	Phage protein	
CDS192	108659	109198	540	+	179	Phage-associated homing endonuclease	
CDS193	109195	109299	105	+	34	Phage protein	
CDS194	109299	109406	108	+	35	Phage protein	
CDS195	109403	109597	195	+	64	Phage protein	
CDS196	109590	109835	246	+	81	Phage protein	
CDS197	109868	109996	129	+	42	hypothetical protein	