Strain	Genotype
86-24	Stx2A+ EHEC strain serotype O157:H7
EDL933	Stx2A+-Stx1 EHEC strain serotype
	O157:H7
Sakai	Stx2A+-Stx1 EHEC strain serotype
	O157:H7
JHD01	86-24 phage N antiterminator isogenic
	mutant
JHD02	86-24 phage Q antiterminator isogenic
	mutant
JHD03	86-24 phage SR holins isogenic double
	mutant
JHD04	86-24 phage cro regulatory protein
	isogenic mutant
JHD05	86-24 espA translocon isogenic mutant
JHD06	86-24 $\Delta N$ - complemented pJHD13
JHD07	86-24 $\Delta$ Q- complemented pJHD14
JHD08	86-24 $\Delta\Delta SR$ - complemented pJHD15
JHD09	86-24 <i>∆cro</i> -complemented pJHD16
JHD10	86-24 <i>cro</i> -pet21a in BL21
JHD11	Sakaicro-pet21a in BL21
JHD12	EDL933 <i>cro</i> -pet21a in BL21
JHD13	86-24 $\Delta cro$ complemented pJHD020
JHD14	86-24 $\Delta cro$ complemented pJHD021
JHD15	EDL933 phage cro-stx2 isogenic mutant
JHD16	EDL933 phage cro-stx1 isogenic mutant
JHD17	EDL933 phage cro-cryptic isogenic
	mutant
JHD18	EDL933 phage-cro-stx2-stx1 double
	mutant
JHD19	EDL933 phage-cro-stx2-cryptic double
	mulani EDI 022 phaga are sty2 syst1 arystic
JHD20	EDL955 phage-cro-sixz-sxi1-cryptic
	lipie inularit Sakai phaga ara atv2 inagania mutant
	Sakai phage cro-six2 isogenic mutant
	Sakai phage cro-cryptic isogenic mutant
	Sakai phage cro-sty2.sty1 doublo
JI 1024	mutant
	Sakai nhage-cro-stx2-cryptic double
01020	mutant
	mutant

Table S1, related to Star Methods (Strain and culture conditions) Bacterial Strains. Details of construction of strains can be found in full methods for strains constructed in this work, or in the respective cited reference.

JHD26	Sakai phage- <i>cro</i> -stx2-sxt1-cryptic triple mutant
BL21	F- ompT hsdSB(rB-, mB-) gal dcm (DE3)
TOPO10	Host <i>E. coli</i> strain for protein expression
E. coli W3350	galK2(Oc) galT22 IN(rrnD-rrnE)1
<i>Citrobacter rodentium</i> DBS100	WT murine pathogen
Citrobacter rodentium C.r- j11	<i>C. rodentium</i> with EHEC <i>ler</i> promoter region
Citrobacter rodentium-	C.rodentium C.r-j11 complemented
C.r-j11-pcro	pJHD016

Table S2, related to Star Methods. Oligonucleotides used in this study.

N-86-24red-F         CACCACCAAGTTCATCAGGAGGTCTATATGACACGCAGAACTCAGTT CAGTGTAGGCTGGAGCTGCATC TCACCTCAAATAAGTGGTTTGCTGCCTAATTTCATTTTCTGGCGACCAA CCCATATGAATAAGTGGTTTGCTGCCTAATTTCATTTTCTGGCGACCAA CCCATATGAATAAGTGGTTTGCTGCTAATGACA clone N antiterminator in PWSK129           Ncomp-R         GTTTCTGCGGCGCACCACGCTATCGTCAACGGGGTGTTCTATGGTCACCGCG GATGTGTAGGCTGGAGCTGCTCC           Q-86-24red-F         AAGGGAAAAGACACGCTATCGTCAACGGTGTTCTATGGTCACCGCG GATGTGTAGGCTGGAGCTGCTCC           Q-86-24red-R         TCGACTGCGTGGCACACGCTATCGTCAACG clone V antiterminator in PWSK129           Qcomp-F         GTTTCTGGATCCCATGATATGCAGCTCTTACGATCGCOGCACGCCACGC		Primers used for mutagenesis and cloning
CAGTGTAGGCTGGAGCTGCTTCN-86-24red-RTCACCTCAATAGATAGGTGGAGCTGCGCGACCAATCAGCAGGGCCAATCGAATAGATGGCGGAGCGACCAANcomp-FGTTTCTGGCGCCGCATCAGGAGGTCTATATGACA clone Nantiterminator in PWSK129Q-86-24red-FAAGGGAAAAGACACGCTATCGTCAACGGTGTTCTTATGGTTCACCGCGQ-86-24red-RTCGACTGCGTGGCACTGCACCGCTCACCGCTATCGTCAACGGCGCGACCACGCTATCGTCACGGCCGCAGCACGGCTATCGTCACGGCCGCAGCACGGCTATCGTCACGGCCGCAGCACGGCTATCGTCACGGCCGCAGCACGGCTATCGTCACGGCCGCAGCACGGCTATCGTCACGGCCGCGCACCGCTACGTACG	N-86-24red-F	CACCACCAAAGTTCATCAGGAGGTCTATATGACACGCAGAACTCAGTT
N-86-24red-R         TCACCTCAAATAACTCCTCTT           Ncomp-F         GTTTCTGCGGCCCGCATCAGGAGGTCTATATGACA clone N antiterminator in PWSK129           O-86-24red-F         AAGGAAAAGCACGCTATCGTCAACGGTGTTCTTATGGTTCACCGCG GATGTGTAGGCTGGAGCTGCTTC           Q-86-24red-R         TCGACTGCGTGGCACCGCACCGCTATCGTCAACGGTGTTCTATGGATCACCGCG GATGTGTAGGCTGGAGCTGCTTC           Q-86-24red-R         TCGACTGCGTGGCGCACCGCACCGCTATCGTCAACGGCIGACGGCACGGC		CAGTGTAGGCTGGAGCTGCTTC
CCCATATGAATATCCTCCTTNcomp-FGTTTCTGCGCCCCATCAGGAGGTCTATATGACA clone N antiterminator in PWSK129Ncomp-RGTTTCTGGATCCTCATTTTCGGCGACCAAC clone N antiterminator in PWSK129Q-86-24red-FAAGGGAAAAGACACGCTATCGTCAACGGTGTTCTTATGGTTCACCGCG GATGTGTAGGCTGGCGCGCGCCACCGCTATCGTCAACG clone Q antiterminator in PWSK129Qcomp-FGTTTCTGCGCCCGCGACACGCTATCGTCAACG clone Q antiterminator in PWSK129Qcomp-RGTTTCTGGATCCCATGATATGCAGGTCTTCACGACC clone Q antiterminator in PWSK129SR-86-24red-FACGGGGACTCAGGCCACGCACGCCAGCCAGCCGCCCCTCCTGGTCACGACG GGATCCATGGATGCCCTCTCSR-86-24red-FACGGGGACTCAGGCCCACGCCAGCCAGCCGCGCCTCCCTGGTCACGACG GGATCCATATGAATATCCTCCTTSR-9sis-comp-FGTTTCTGCGGCCCCGCCATCAGTAAACAGCTGCT clone SR lysis in PWSK129Cro-86-24red-FTGCGGATCCTTATCTGTCGGATTCCCCAGC clone SR lysis in PWSK129Cro-86-24red-FTGCGGATCCTTATCTGTCGGATCCCCTT GCAGTGTAGCCTGAGCTGCTTCCro-86-24red-FTGCCATGGATCCTTATCTGTGGAAAATGCGAGGGCA GCAGTGTAGCCTGAGCTGCTCTCro-86-24red-FTGCCATGGATCCTTATCTGTGGAAAATAGCGGAGGCA GCAGTGTAGCCTGCGCGCCCCTGTGTGATAAACGGAGGCA clone regulatory cro in PWSK129Cro-comp-FGTTTCTGGATCCCATGGAAAATAGCGGAGGCA clone regulatory cro in PWSK129Cro-pet21a-FGTTTCTGGATCCATGAGAAACTACTACGC clone 86-24-cro in PET21aCroSak-pet21RGTTTCTGCGGCCCAGCGCGCGCGCGCGCGCGCGCGCGCGC	N-86-24red-R	TCACCTCAAATAAGTGGTTTGCTGCCTAATTTCATTTTCTGGCGACCAA
Ncomp-F         GTTTCTGCGGCCGCATCAGGAGGTCTATATGACA clone N antiterminator in PWSK129           Ncomp-R         GTTTCTGGATCCTCATTTTCTGGCGACCAAC clone N antiterminator in PWSK129           Q-86-24red-F         AAGGAAAAGACACGCTATCGTCAACGGTGTTCTTATGGTTCACCGCG GATGTGTAGGCTGGGAGCTGCTTC           Q-sec-24red-R         TCGACTGCGGCGCGCGACACGCTATCGTCAACG clone Q antiterminator in PWSK129           Qcomp-F         GTTTCTGGGCCGCGCACACGCTATCGTCAACG clone Q antiterminator in PWSK129           Qcomp-R         GTTTCTGGATCCCATGATATGCAGATTTTACGATC clone Q antiterminator in PWSK129           SR-86-24red-R         TTATCTGTCGGCCGCGCCATCAGTAAACAGCTGCTGGCGCTTTTCATGTT GTGTGTGGGCTGGAGCTGCTTC           SR-86-24red-R         TTATCTGTCGGCCGCGCCATCAGTAAACAGCTGCTGCTGGCCCTTCATGGTCACGACG GGATCCATATGAATATCCTCCTT           SR-lysis-comp-F         GTTTCTGGGCCGCGCCATCAGTAAACAGCTGCT clone SR lysis in PWSK129           SR-lysis-comp-F         GTTTCTGGGACCTGGAGCTGCTTC           SR-lysis-comp-F         GTTTCTGGGACCGGGCGCATCAGTAACAAGGCGCGATGCTCACGGAG GCAGTGTAGGCTGGAGCTGCTTC           Cro-86-24red-R         TTCCTGGATCCTTATCTGTGGAACTACGGCGCGCCGCTGCAGCGAGCG		CCCATATGAATATCCTCCTT
antiterminator in PWSK129         Ncomp-R       GTTTCTGGCATCCTCATTTTCTGGCGACCAAC clone N antiterminator in PWSK129         Q-86-24red-F       AAGGGAAAAGACCGCTATCGTCAACGGTGTTCTTATGGTTCACCGCG GGCATATGGACGCGCGCGCCACCCTTCT         Qcomp-F       GTTTCTGCGGCCGCGCACACGCTATCGTCAACG clone Q antiterminator in PWSK129         Qcomp-R       GTTTCTGGGATCCCATGATATGCAGATTTTACGATC clone Q antiterminator in PWSK129         SR-86-24red-F       ACGGGGAGTCCATGATATGCAGATTTTACGATC clone Q antiterminator in PWSK129         SR-86-24red-F       ACGGGGAGTCCATGATATCCTCCTT         SR-86-24red-F       GCGGCAGCCGCGCCATCAGTAACAGCTGCTCCCTGGTCACGACG GGATCCATATGAATTCCTCCTT         SR-lysis-comp-F       GTTTCTGCGGCCGCGCCCATCAGTAACAGCTGCT clone SR lysis in PWSK129         SR-lysis-comp-F       GTTTCTGGATCCTTATCTGTGGTAAACAGCTGCT clone SR lysis in PWSK129         Cro-86-24red-F       TGCGATGATGCTTATCTATCTGTGGTAAACGGAG GCATGTATGGCTGGAGCTGCTTC         Cro-86-24red-F       TGCGGATGGAGCTGGTGTTACTTATGCAGCCGATGCTCTACGCG ACGTGTAGGCTGGAGCTGTTACTTATCGTGTGTGATAAACGGAG GCATGTAGGCTGGAGCCGCTGTGTGATAAACGGAGGCA clone regulatory cro in PWSK129         Cro-comp-F       GTTTCTGGATCCATGAGTAATGAACTACTACGC clone 86-24-cro in PET21a         Cro-pet21a-F       GTTTCTGGATCCATGGAGCAACCTACGAAAATATC clone Sakai-cro in PET21a         CroSak-pet21R       GTTTCTGGATCCATGCAAACCTACGAAAATATC clone Sakai-cro in PET21a         CroSak-pet21R       GTTTCTGGGCCCGCGCGCGCGCAGCAGAGGCCTTCTTTC clone Sakai-cro in PET21a	Ncomp-F	GTTTCTGCGGCCGCATCAGGAGGTCTATATGACA clone N
Ncomp-R         GTTTCTGGATCCTCATTTTCTGGCGACCAAC clone N antiterminator in PWSkt29           Q-86-24red-F         AAGGGAAAAGACACGCTATCGTCAACGGTGTTCTTATGGTTCACCGCG GATGTGTAGGCTGGAGCTGCTTC           Q-86-24red-R         TCGACTGCGTGGCAATGTAACCACCTCTTATCATGATATGCAGATTTTTA CGCCATATGAATATCCTCCTT           Qcomp-F         GTTTCTGGATCCCATGATATGCAGATTTTACAGATC clone Q antiterminator in PWSkt29           Qcomp-R         GTTTCTGGATCCCATGGAACGCCACGCAGCGCGCCTCCTCGGTCACGACG GGATCCATATGAATATCCTCCTT           SR-86-24red-F         ACGGGGAGTCAGGGCCATCAGTAAACAGCTGCTGGCCTTTTTCATGTT GTGTGTAGGCTGGACCTCCTT           SR-86-24red-R         TTATCTGTGATTCCCCAGCACGCCAGCCAGCGCGCCTCCCTGGTCACGACG GGATCCATATGAATATCCTCCTT           SR-lysis-comp-F         GTTTCTGGATCCCTAGTAAACAGCTGCT clone <i>SR</i> lysis in PWSkt29           SR-lysis-comp-R         GTTTCTGGATCCTTATCTGTCGATTCCCCAGC clone <i>SR</i> lysis in PWSkt29           Cro-86-24red-F         TGCGGATGATTTATCAAATGGTAAAGTGTTCTGTGTGATAAACGGAG GCAGTGTAGGCTGGAGCTGCTTC           Cro-86-24red-R         TGCCATTGTGACAGAGCTGCTTC CTC-comp-F           GTTTCTGGATCCATGAGCTAGCTTACTTATGCAGCCGATGCTCTACGCG ATACCATATGAAATACGCGGTGTAACATGGAGGCA clone regulatory cro in PWSkt29           Cro-comp-F         GTTTCTGGATCCCACGAGGCGATGCTCTACGC clone 86-24-cro in PET21a               Cro-comp-R         GTTTCTGGGATCCATGAGCAACCTACGAAAATATC clone Sakai-cro in PET21a               Cro-comp-R         GTTTCTGGCGCCCGCGCGCGCGCGCGCGCCCACGCAAAATATC clone Sakai-cro in PET21a               Cro-sak-pet21F         G		antiterminator in PWSK129
PWSK129         Q-86-24red-F       AAGGAAAAGACACGCTATCGTCAACGGTGTTCTTATGGTTCACCGCG         GATGTGTAGGCTGGAACTGTAACCACTCTTATCATGATATGCAGATTTTTA         CGCATATGAATATCCTCTT         Qcomp-F       GTTTCTGGGTCCATGATATGCAGATTTTACGATC clone Q         antiterminator in PWSK129         SR-86-24red-F       ACGGGAGTCAGGCCACTCAGTAACAGCTGCTGCGCCTTTTCATGTT         GTTCTGGGATCCCATGATATGCAGATTTTACGATC clone Q         antiterminator in PWSK129         SR-86-24red-F       ACGGGGAGTCAGGCCATCAGTAACAGCTGCTGCTGGCCTTTTCATGTT         GTTCTGGATCCCATGAATTCCCCAGCAGCGCGCGCTCTCCTGGTCACGACG         GGATCCATATGAATATCCTCCTT         SR-lysis-comp-F       GTTTCTGGATCCTTATCTGTGGATAACAGCTGCT clone <i>SR</i> lysis in         PWSK129       GTTCTGGATCCTTATCTGTGGATAACGGCGGCGCGCGCTCTCCCGGCAGGGGCGCGCCAGCGGCGCGCGC	Ncomp-R	GTTTCTGGATCCTCATTTTCTGGCGACCAAC clone N antiterminator in
Q-86-24red-F       AAGGGAAAAGACACGCTATCGTCAACGGTGTTCTTATGGTTCACCGCG         Q-86-24red-R       TCGACTGCGGCGCGACGCTATCGTCAACGCACGCCATTGCAACGCAGATTTTA         Qcomp-F       GTTTCTGCGGCCCGCGACACGCTATCGTCAACG clone Q antiterminator         in PWSK129       GCGGAGTCAAGGCCCATCAGTAAACAGCTGCTGCCCTTTTCATGTT         GCCMP-R       GTTTCTGCGACCCGCAGCGCCATCAGTAAACAGCTGCTGCCCTTTTTCATGTT         SR-86-24red-F       ACGGGGAGTCAAGGCCCATCAGTAAACAGCTGCTGCCCCTGGTCACGACG         SR-86-24red-R       TTATCTGTCGATTCCCCAGGACGCCAGCGCGCCTCTCCTGGTCACGACG         GGATCCATATGAATATCCTCCTT       GTTCTGCGGCCGGCCCATCAGTAAACAGCTGCT clone SR lysis in         PWSK129       SR-lysis-comp-F         GTTTCTGCGGCCGGCCCATCAGTAAACAGCTGCT clone SR lysis in         PWSK129       SR-lysis-comp-R         GTTTCTGGGATCCTTATCTGTGCGATCCCCAGC clone SR lysis in         PWSK129       TCCATGTGAAAATAGCGGTGTTACTTATGCAGCCGATGCTCTACGCG         Cro-86-24red-F       TGCGGATGATTTATCAAAATGGTAAAGTGGTGCAAGCCGATGCTCTACGCG         Cro-86-24red-F       TGCCGGCCGCCCTGTGTGATAAACGGAGGCA clone regulatory cro         In PWSK129       TCCATTGTGAAAATAGCGGTG clone segulatory cro         Cro-comp-F       GTTTCTGGGATCCATGAGCAAGCTACTACACAGCG clone 86-24-cro in         PET21a       Cro-pet21a-F       GTTTCTGGATCCATGAGCAGCGCATGCTCACGCAAAATATC clone Sakai-cro in         PET21a       CroSak-pet21F       GTTTCTGGATCCATGAGCAAGCCAAGGGCTTTG		PWSK129
GATGTGTAGGCTGCAGCTGCTTCQ-86-24red-RTCGACTGCGTGGCAAGTGTAACCACTCTTATCATGATATGCAGATTTTA CGCCATATGAATATCCTCCTTQcomp-FGTTTCTGCGGCCCGCACAGCAACGCTATCGTCAACG clone Q antiterminator in PWSK129Qcomp-RGTTTCTGGATCCCATGATATGCAGATTTTACGATC clone Q antiterminator in PWSK129SR-86-24red-FACGGGGAGGCGTCAGCAGCCATCAGTAAACAGCTGCTGGCCTTTTCATGTT GTGTGTAGGCTGGAGCTGCGCCCCAGCAGCGCGCCTCCCTGGTCACGACG GGATCCATATGAATATCCTCCTTSR-1ysis-comp-FGTTTCTGCGGCCGCGCCATCAGTAAACAGCTGCT clone SR lysis in PWSK129SR-lysis-comp-RGTTTCTGCGGCCCGCGCCATCAGTAAACAGCTGCT clone SR lysis in PWSK129Cro-86-24red-FTGCGGATGATTATCAAAATGGTAAAGGTGTGTCTGTGTGATAAACGGAG GCAGTGTAGGCTGGAGCTGCTTCCro-86-24red-FTGCGGATGATTATCAAATAGCGGTGTTACTTATGCAGCCGATGCTCTACGCG GCAGTGTAGGCTGGCGCCCCTGTGTGATAAACGGAGGCA clone regulatory cro in PWSK129Cro-comp-FGTTTCTGGATCCTCATTGTGAAAATAGCGGAGGA clone regulatory cro in PWSK129Cro-pet21a-FGTTTCTGGATCCATGAGAATATGAACTACTACGC clone 86-24-cro in PET21aCro-pet21a-FGTTTCTGGGATCCATGAGCAACCTACGAAAATATC clone Sakai-cro in PET21aCroEdI-pet21FGTTTCTGGATCCATGAGCAACCTACGAAAATATC clone Sakai-cro in PET21aCroEdI-pet21FGTTTCTGCGGCCGCAGCGGCTTGGTCCCG clone Sakai-cro in PET21aCroEdI-pet21RGTTTCTGCGGCCCGCGGCGCAACCAACCTACGAAAATCTTT clone EDL933-cro in PET21aCroSak-comFGTTTCTGCGGCCGCGGGGTTACTATGGAGGGCAT clone VT-Stx2-cro in pWSK129CroEdI-comFGTTTCTGCGGCCGCGGGTACTGAAAGGATACGAAAAGGATA clone BP933W-cro in pWSK129CroEdI-comFGTTTCTGCGGCCGCGGTACTGAAAGGAGTACGAAAAAGGATA clone BP933W-cro in pWSK129CroEdI-comRGTTCT	Q-86-24red-F	AAGGGAAAAGACACGCTATCGTCAACGGTGTTCTTATGGTTCACCGCG
Q-86-24red-R       TCGACTGCGTGCAATGTAACCACTCTTATCATGATATGCAGATTTTA         Qcomp-F       GTTTCTGCGGCCCGCGACACGCTATCGTCAACG clone Q antiterminator in PWSK129         Qcomp-R       GTTTCTGCGGCCCATGATATGCAGATTTTACGATC clone Q antiterminator in PWSK129         SR-86-24red-F       ACGGGGAGTCAGGGCCATCAGTAAACAGCTGCTGGCCTTTTCCATGTT         GTTGTGTGAGCTGGAGCTGCTTC       GTGTGTAGGCTGGGAGCTGCTTC         SR-86-24red-R       TTATCTGTCGATTCCCCAGCAGCGCCAGCGCGCGCTCCCTGGTCACGACG         GGATCCATATGATATCCTCCTT       GTTTCTGCGGCCGCGCGCATCAGTAAACAGCTGCT clone SR lysis in PWSK129         SR-lysis-comp-R       GTTTCTGGATCCTTATCTGTCGATTCCCCAGC clone SR lysis in PWSK129         Cro-86-24red-F       TGCGGATGATTTATCAAAATGGTAAAGTTGTTCTGTGTGATAAACGGAG GCAGTGTAGGCTGCAGCGTGCTTC         Cro-86-24red-R       TCCATTGGAAATACCGCCTGTTACTTATGCAGGCGAGGCA clone regulatory cro in PWSK129         Cro-comp-F       GTTTCTGGAACATGACAACCAGCTGATGATAAACGGAGGCA clone regulatory cro in PWSK129         Cro-pet21a-F       GTTTCTGGATCCATGAGCAACCTACTACGCG clone 86-24-cro in PET21a         Cro-pet21a-F       GTTTCTGCGGCCGCTGCAGCGGACTCTACGCG clone 86-24-cro in PET21a         CroSak-pet21F       GTTTCTGCGGCCGCAGCGGCGCTTGTGGCTCCAG clone Sakai-cro in PET21a         CroEdI-pet21F       GTTTCTGCGGCCGCGCGCGCGCGCGCAGAAGGTTCTTTT clone EDL933-cro in PET21a         CroEdI-pet21R       GTTTCTGCGGCCGCGCGCGCGCGCGCGCAGAAGGTCTTTT clone VT-Stx2-cro in PWSK129             CroEdI-comF       GTTTCTG		GATGTGTAGGCTGGAGCTGCTTC
CcGCCATATGAATATCCTCTTQcomp-FGTTTCTGCGGCCCGCGACACGCTATCGTCAACG clone Q antiterminator in PWSK129Qcomp-RGTTTCTGGATCCCATGATATGCAGATTTTACGATC clone Q antiterminator in PWSK129SR-86-24red-FACGGGGAGTCAGGGCCATCAGTAAACAGCTGCTGGCCTTTTCATGTT GTGTGTAGGCTGCAGCCCCCAGCGCCAGCGCCTCCCTGGGTCACGACG GGATCCATATGCAATCCCCCCAGCACGCCAGCGCGCTCCCTGGGTCACGACG GGATCCATATGCATATCCCCCAGCACGCCAGCGCCGCTCCCTGGGTCACGACG GGATCCATATGCATATCCTCCTTSR-lysis-comp-FGTTTCTGCGGCCCCGCCACCAGCGCCAGCGCCCCGCC clone SR lysis in PWSK129SR-lysis-comp-RGTTTCTGGATCCTTATCTGTCGATTCCCCAGC clone SR lysis in PWSK129Cro-86-24red-FTCCCATGGACCTGCTGCT TCCATTGGAAAATAGCGGGGTGCTTCTGTGTGGATAAACGGAG GCAGTGTAGGCTGCAGCTGCTCTCro-se6-24red-RTCCATTGGAAAATAGCGGGTGTACTTATGCAGCCGATGCTCTACGCG ATACCATTGAATATCCTCCTTCro-omp-FGTTTCTGCGACCCCCATGTGTGATAAACGGAGGCA clone regulatory cro in PWSK129Cro-omp-RGTTTCTGGATCCATGAGTAATGAACTACCACGC clone 86-24-cro in PET21aCro-pet21a-FGTTTCTGCGGCCGCTGCAGCCGATGCTCTACGC clone 86-24-cro in PET21aCroSak-pet21FGTTTCTGCGGCCGCAGCGGGCTTGTGCTCCAG clone 86-24-cro in PET21aCroEdI-pet21FGTTTCTGCGGCCGCAGCAGCACCTACGAAAATATC clone Sakai-cro in PET21aCroEdI-pet21FGTTTCTGCGGCCGCAGCAGCAGCCAGAAGGTTCTTTT clone EDL933-cro in PET21aCroSak-comFGTTTCTGCGGCCGCGGGGCTTACTATGGAGCCG clone VT-Stx2-cro in pWSK129CroEdI-comFGTTTCTGCGGCCGCGGCACTGAAAGGATACGAAAAAGGATA clone BP933W-cro in pWSK129CroEdI-comFGTTTCTGCGGCCGCGGTACTGAAAGGATACGAAAAAGGATA clone BP933W-cro inCroEdI-comFGTTCTGCGGCCGCGGTACTGAAAGTACGAAAAAGGATA clone BP933W-cro in	Q-86-24red-R	TCGACTGCGTGGCAATGTAACCACTCTTATCATGATATGCAGATTTTTA
Geomp-F       GTTTCTGGGCCGCCGCACACGCTATCGTCACGCtone Q antiterminator         in PWSK129       GTTTCTGGATCCCATGATATGCAGATTTTTACGATC clone Q antiterminator in PWSK129         SR-86-24red-F       ACGGGGAGTCAGGCCATCAGTAAACAGCTGCTGGCCTTTTTCATGTT         GTTGTGTAGGCTGGAGCTGCTC       GTTTCTGTCGATTCCCCAGCACGCCAGCGCGCCTCTCGTGGTCACGACG         SR-86-24red-R       TTATCTGTCGATTCCCCAGCACGCCAGCGCGCCCTCCTGGTCACGACG         SR-lysis-comp-F       GTTTCTGCGATCCTTATCTGTCGTGTGATAACAGCTGCT clone SR lysis in         PWSK129       GCTGCTGGAGCTGGCGCGCGCCTTCCTGGTGATAAACGGAG         GCAGTGTAGGCTGGAGCTGCTTC       GCAGTGTAGGCTGGAGCTGCTTCTGTGTGTGATAAACGGAG         Cro-86-24red-R       TCCATTGGAAAATAGCGGTGTTACTTATGCAGCCGATGCTCTACGCG         Cro-86-24red-R       TCCATTGGAAAATAGCGGTGTTACTTATGCAGCGAGCGATGCTCTACGCG         Cro-86-24red-R       TCCATTGGAAAATAGCGGTGTTACTTATGCAGCCGATGCTCTACGCG         Cro-86-24red-R       TCCATTGGAAAATAGCGGTGTTACTTATGCAGCGCGATGCTCTACGCG         Cro-86-24red-R       TCCATTGGAACCATGCAAATGCGAGGGGCA clone regulatory cro         In PWSK129       GTTTCTGGGATCCATGAGAGAAATAGCGGAGGGGCA clone regulatory cro         Cro-comp-F       GTTTCTGGGATCCATGAGCAACCTACGAAAATATC clone 86-24-cro in         PET21a       GTTTCTGGGATCCATGAGCAACCTACGAAAATATC clone 86-24-cro in         PET21a       GTTTCTGGGATCCATGAGCAGCGATGCTCTACGG clone 86-24-cro in         Cro-sak-pet21F       GTTTCTGGGACCCATGAGCGAGCGCTTGGTGCTCCG c	o -	
In PWSK129Qcomp-RGTTTCTGGATCCCATGATATGCAGATTTTACGATC clone Q antiterminator in PWSK129SR-86-24red-FACGGGAGTCAGGCCCATCAGTAAACAGCTGCTGGCCTTTTTCATGTT GTGTGTAGGCTGCGCCCCAGCAGCCCAGCAGCGCGCTCTCCTGGTCACGACG GGATCCATATGATATCCTCCTTSR-lysis-comp-FGTTTCTGCGGCCCGCCCATCAGTAAACAGCTGCT clone SR lysis in PWSK129SR-lysis-comp-RGTTTCTGGATCCTTATCTGTGCGATTCCCCAGC clone SR lysis in PWSK129Cro-86-24red-FTGCGGATGATTATCAAAATGGTAAAGTTGTTCTGTGTGTATAAACGGAG GCAGTGTAGCTGGAGCTGCGAGCTGCTTCCro-86-24red-RTCCATTGAAAATAGCGGAGTGTTACTTATGCAGCCGATGCTCTACGCG ATACCATATGAATATCCTCCTTCro-omp-FGTTTCTGCGGCCGCCCCTGTGTGATAAACGGAGGCA clone regulatory cro in PWSK129Cro-comp-RGTTTCTGGATCCATGAGATAATGACGAGGGGCA clone regulatory cro in PWSK129Cro-pet21a-FGTTTCTGGATCCATGAGAAATGACCGAGCGAACACCTACGAAAATATC clone S6-24-cro in PET21aCrosak-pet21FGTTTCTGCGGCCGCCGCGCGCGCGCGCGCGCGCGCGCGC	Qcomp-F	GITICIGCGGCCGCGACACGCTATCGTCAACG clone Q antiterminator
Gomp-R       GTTTCTGGATCCCATGAGAGTTTTTACGATC done U         antiterminator in PWSK129       ACGGGGAGTCAGGGCCATCAGTAACAGCTGCTGCCCTGGCCTTTTCATGTT         SR-86-24red-R       TTATCGTCGATCCCCAGCAGCAGCAGCGCGCTCTCCTGGTCACGACG         GGATCCATATGAATATCCTCCCTT       GTTTCTGGCGCCGCGCCCCCCCCCCCCCCCCCCCCCCC	0	
antiterminator in PWSK129SR-86-24red-FACGGGGAGTCAGGGCCATCAGTAAACAGCTGCTGGCCTTTTCATGTT GTGTGTAGGCTGCATCGAGGCCCACCAGCGCCAGCGCGCTCTCCTGGTCACGACG GGATCCATATGAATATCCTCCTTSR-lysis-comp-FGTTTCTGCGGCCGCGCCATCAGTAAACAGCTGCT clone SR lysis in PWSK129SR-lysis-comp-RGTTTCTGCGATCCTTATCTGTCGATACCAGC clone SR lysis in PWSK129Cro-86-24red-FTGCGGATGATTATCAAAATGGTAAAGTTGTTCTGTGTGATAAACGGAG GCAGTGTAGGCTGGAGCTGCTTCCro-86-24red-RTCCATTGTGAAAATAGCGGTGTACTTATGCAGCCGATGCTCACGCG ATACCATATGAATATCCTCCTTCro-comp-FGTTTCTGCGGCCGCCGCTGTGTGATAAACGGAGGCA clone regulatory cro in PWSK129Cro-comp-FGTTTCTGGATCCATGAGTAATGAACTACTACGC clone 86-24-cro in PET21aCro-pet21a-FGTTTCTGCGGCCGCGCTGCAGCCGATGCTCTACGC clone 86-24-cro in PET21aCroSak-pet21FGTTTCTGCGGCCCGCTGCAGCCGATGCTCTACG clone 86-24-cro in PET21aCroSak-pet21FGTTTCTGCGGCCCGCAGCGGCTTTGTGCTCCG clone 86-24-cro in PET21aCroSak-pet21FGTTTCTGCGGCCGCGCAGCGGCGCTTGTGGCTCCG clone 86-24-cro in PET21aCroEdI-pet21FGTTTCTGCGGCCGCCGCAGCGGCTTTGTGCTCCG clone 86-24-cro in PET21aCroEdI-pet21FGTTTCTGCGGCCGCCGCAGCGGCTTTGTGCTCCG clone 86-24-cro in PET21aCroEdI-pet21FGTTTCTGCGGCCGCCGCAGCGGCTTTGTGCTCCG clone 86-24-cro in PET21aCroSak-comFGTTTCTGCGGCCGCGCGCGCGCGCGCGCGCGCGCGCGCG	Qcomp-R	GTITCTGGATCCCATGATATGCAGATTTTTACGATC clone Q
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CroEdl-comF       GTTTCTGCGGCCGCGTACTGAAAGTACGAAAAGGATA clone         BP933W-cro in pWSK129         CroEdl-comR    GTTTCTGGATCCATAGCGGTGTTACTTATGCAG clone BP933W-cro in	CroSak-comR	PWUNIZU CTTTCTCCATCATTAACCCCCCTTTCTCCTCC close V/T Sty2 ore in
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CroEdl-comR GTTTCTGGATCCATAGCGGTGTTACTTATGCAG clone BP933W-cro in	CroEdl-comF	
CroEdl-comR GTTTCTGGATCCATAGCGGTGTTACTTATGCAG clone BP933W-cro in		BP933W-croin nWSK129
	CroEdl-comR	GTTTCTGGATCCATAGCGGTGTTACTTATGCAG clone BP933W-cro in

	pWSK129
EspA-86-24red-F	TTATTTACCAAGGGATATTGCTGAAATAGTTCTATATTGTAGAGATTGC
	GTGTAGGCTGGAGCTGCTTC
EspA-86-24red-R	ATGGATACATCAAATGCAACATCCGTTGTTAATGTGAGTGCGAGTTCTT
	CCCATATGAATATCCTCCTT
Cro-stx2edI-F	GTACTGAAAGTACGAAAAAGGATATTCCTATGCAAAATCTTGATGAGCC
	GTGTAGGCTGGAGCTGCTTC
Cro-stx2edI-R	CCATTGTGAAAATAGCGGTGTTACTTATGCAGCCAGAAGGTTCTTTTG
	CCCATATGAATATCCTCCTT
Cro-stx1edl-F	TTAGAGGTGAAAGGCCATGATGAAAGAGCGGGTACTGCTTAGGCGGC
Cro-stx1edI-R	
Cro. on intional E	
Cro-crypticedi-F	
Cro. on intiand P	
Cio-ciyplicedi-K	
Cro-etv2Sak-F	
010-31/2004-1	
Cro-sty2Sak-R	
	TACCATATGAATATCCTCCTT
Cro-stx1Sak-F	CCCAATGGATTTGCCGCTGATGTTTGCTCACCCGGTTAGAGGTGAAAG
oro outroak i	GCGTGTAGGCTGGAGCTGCTTC
Cro-stx1Sak-R	GAGACCGCAATGAACAAAATTGCCCAGCAGCGAAAAAAAA
	TCGCCATATGAATATCCTCCTT
Cro-crypticSak-F	GGTGATAATGGTTGCATGTACTAAGGAGGTTGTATGGAACAACGCATA
	ACGTGTAGGCTGGAGCTGCTTC
Cro-crypticSak-R	TGTAAGAGCGGGGTTATTTATGCTGTTGTTTTTTTGTTACTCGGGAAGG
	GCCATATGAATATCCTCCTT
Crostx1edIF	TTAGAGGTGAAAGGCCATGA
Crostx1edIR	TAATGGGTGTGTGATTAATGCT
CrocrypedIF	GTTGCATGTACTAAGGAGGT
CrocrypedIR	TAAGAGCGGGGTTATTTATGC
Crostx1SakF	CCCAATGGATTTGCCGCT
Crostx1SakR	GAGACCGCAATGAACAAAATTG
CrocrypSakF	GGTGATAATGGTTGCATGTACT
CrocrypSakR	TGTAAGAGCGGGGTTATTTATG
CRIerF	GAGCTCGGTACCCGGGGGATCTTAAATGTTATTCAGAGATGTTAC
CRIerR	GATTAATTGTTGGTCCTTCCT
FHIerPF	CCTCATGCTTTAATATTTTAAGCTA
EHIORPROV	GTATAGGAACTTCGAAGCAGCTCCAGCCTACACAGTATCATATAGCAT
	CATATAGTGT
CMf	TGTGTAGGCTGGAGCTGCTTC
CMr	
OMI	AACCATATGAATATCCTCCTTAGT
Tris66F	TTACTGAGAGCTCAGATCAAC
Tris66R	
FlaRzE	
	GAGACTACAAAGACCATGACGG
FlagRzR	CGCTGGAAGCGCGGGTGTATTGCTCACAATAATTGCATGAGTTGCCCA
i lagi vzi v	TCCATATGAATATCCTCCTTAG
RzBorF	ATGAACCGTGTTCTGTGTGTG
RzBorR	GCTGGCCCTGCTTATTACAG
-	

LamCroF	ATGTACTAAGGAGGTTGTATG
LamCroR	TGCATACACCATAGGTGTG
Stx2AF	ATGAAGTGTATATTATTTAAATGGG
Stx2AR	TTTACCCGTTGTATATAAAAACTG
	Oligonucleotides used for Real Time PCR
Ler-F	CGACCAGGTCTGCCCTTCT
Ler-R	GCGCGGAACTCATCGAAA
Tir-F	CCATGGAGAGCAGACGTAGCT
Tir-R	CGGTGATCCTGGATTTAACCTT
sepL-F	GCCTGGGATTCGCAAAGGT
sepL-R	CTCTTGCATATCATTGAGCAGCTT
espA-F	
espA-R	
rpoA-F	
rpoa-re	
cro-86-24P	
cl-86-24F	
cl-86-24R	ATCGCGGGTAACACTAATGC
dinIF	GTACTGATACGTGGCCTTCA
dinIR	GAACTTTCCCGCCGTATTCA
fliC-F	GTCATCCTTCGCGCTGTTAA
fliC-R	TCTGCGCTGTCGAGTTCTAT
NantiF	GTAGGGCGGTGTAATACTTC
NantiR	ATTAGCTAACGGCGTACTGG
nhnB-F	CTGTCCTGCGCTGATTTTG
phnB-R	GGCGCTGAACTGCTCTATAA
proPF	
proPR	
rncF	GCTCAGAATAGAGTCGCCTA
rncR	
troDF	GCGCGGTAAGCTGCCTAT
troDR	
wcaMF	GTGATATTCGCCACGACAAAG
weaMP	GGAAGCACTTACGATAATAATTAC
Cr-rpoA-P	
Cr-espA-F	
CI-espA-R	CTGCCTGGCATTGCTTTCCAGAAT
	Oligonucleotides used for EMSAS
Ler-173 F	
Ler-42 R	
KanF KanD	
Nank OrormEv	
Orprimev	
Olbinika	

## Table S3, related to Star Methods. Plasmids.

	Genotype
pet21a	N-terminal His-Tag vector
pWSK129	pLG339 <i>ori, kan, lacΖ</i> α
pkd4	λ red template plasmid
pkd46	λ red recombinase expression plasmid
pcp20	TS replication and thermal induction of FLP
	synthesis
pJHD013	86-24 phage N antiterminator in pwsk129
pJHD014	86-24 phage Q- antiterminator in pwsk129
pJHD015	86-24 phage SR- holins in pwsk129
pJHD016	86-24 phage cro-transcription factor in
	pWSK129
pJHD017	86-24 phage cro-transcription factor in
	pet21a
pJHD018	EDL933-933w- cro-transcription factor in
	pet21a
pJHD019	Sakai-Vt-Stx2- cro-transcription factor in
	pet21a
pJHD020	EDL933-933w- cro-transcription factor in
	pWSK129
pJHD021	Sakai-Vt-Stx2- cro-transcription factor in
	pWSK129
pRS551	lacZ reporter gene fusion vector



## Figure S1. Related to Figure 1. Bacteriophage activity in *E. coli* W3350.

(A) Protein levels of the DNA repair protein, RecA, from whole-cell lysate of *E. coli* W3350 in LB aerobic, DMEM anaerobic and DMEM aerobic conditions. RpoA levels serves as a loading control (B) Growth curves of *E. coli* W3350 using LB-mitomycin C, LB-glucose, DMEM anaerobic and DMEM aerobic. The experiments were conducted with 9 biological replicates. Data are represented as mean ± SEM. (C) Bacteriophage particles isolated from *E. coli* W3350 using PEG8000 under LB mitomycin C, LB-glucose, DMEM anaerobic and DMEM aerobic conditions, and PCR

reaction was performed targeting the cro gene as readout.



## Figure S2. Related to Figure 1. Differences between EHEC 8624 and *E. coli* W3350 bacteriophages.

EHEC and E. coli W3350 were grown in LB medium and treated with Mitomycin C

(10  $\mu$ g/ml), centrifuged, filter sterilized and serially diluted in SM buffer and an aliquot

(100 µl) was mixed with host strain *E. coli* (DH5α), incubated and poured onto LB plates

to be incubated overnight. Plaques were visualized with a digital camera.

(A) EHEC Stx2 bacteriophage did not form plaques on *E. coli* DH5α.

(B) Lambda phage from strain W3350 was able to produce thousands of plaques on E.

coli DH5a. (C) Cartoon depicting the strategy to Flag-tag Rz gene from the 8624 bacteriophage, which is a non-essential gene for bacteriophage. Rz is a gene located downstream of the lysis genes SR, and between Rz flag and bor a kanamycin resistant gene was introduced as a selection marker. (D) Western Blot experiment of EHEC 8624 Rz-flag strain where the bacterium was grown on different conditions, Mitomycin C, LB, and DMEM anaerobic for 6 hours to obtain whole cell lysate to be probed against anti-Flag antibody (Sigma). WT EHEC was added to test the specificity of the Flag antibody. The Flag tag was highly expressed by the Rz-Flag 8624 strain in Mitomycin C. In the absence of mitomycin C it was expressed at lower levels in LB and not in DMEM. (E) PCR of DH5α clone transduced with 8624 Rz Flag bacteriophage depicting the presence of *stx2A* gene in the chromosome. (F) Western blot of DH5α transduced with Rz:Flag bacteriophage under different growth conditions. The first to lines are EHEC 8624 Rz:flag under mitomycin C and LB conditions used as positive controls. (D) Western Blot experiment of EHEC 8624 Rz-flag strain where the bacterium was grown on different conditions, Mitomycin C, LB, and DMEM anaerobic for 6 hours to obtain whole cell lysate to be probed against anti-Flag antibody (Sigma). WT EHEC was added to test the specificity of the Flag antibody. The Flag tag was highly expressed by the Rz-Flag 8624 strain in Mitomycin C. In the absence of mitomycin C it was expressed at lower levels in LB and not in DMEM. (E) PCR of DH5a clone transduced with 8624 Rz:Flag bacteriophage depicting the presence of *stx2A* gene in the chromosome.

(F) Western blot of DH5α transduced with Rz:Flag bacteriophage under different growth conditions. The first to lines are EHEC 8624 Rz:flag under mitomycin C and LB conditions used as positive controls.



## Figure S3.Related to Figures 2 and 3. EHEC 8624 bacteriophage mutants are lysogenic

Growth curves of EHEC 8624 WT (Black line) and isogenic bacteriophage mutations  $\Delta N$  (Red line),  $\Delta Q$  (Green line)  $\Delta SR$  (Blue line) and  $\Delta cro$  (Grey line). The strains were grown in LB medium supplemented with a low concentration of Mitomycin C (200 ng/ml) under aerobic conditions, and induction was done at the beginning of the experiment (0 hour) (n=3, error bars, standard deviation).



Figure S4. Related to Figure 4. Cro regulation of ler and Different Cro proteins.

(A) Beta galactosidase assay of *ler*-lacZ fusions in *E. coli* K-12 MC4100 in the absence (vector control) or presence of pCro. IPTG is used in all cultures because it induces cro expression. Cultures were grown in DMEM. pVS204 contains the -343 to +86 regulatory region of *ler*. pVS200 does not contain *ler* P2 promoter (Sharp and Sperandio, 2007) . P<0.05 as significant. (B) The presence of acidic patches in the DNA domain of a transcription factor are required for transcriptional activation(Bushman and Ptashne, 1988; Ko et al., 2008). Cro proteins from the different phages were evaluated using the software Protein Sequence Analysis Workbench (PSPIRED)(Buchan et al., 2013). a, Lambda ( $\lambda$ ) Cro protein, accession number NP\_040629.1 was used for comparison purposes showing the software's accuracy to predict the Cro DNA binding domain at amino acid residual 30 , QSANK showed as pink bars. Noticeably, this domain does not contain acidic patches which is typical for this type of Cro. (C) EHEC 86-24 Cro

accession number YP\_001449261.1 contains two domains , at residuals 20 and 50 which have acidic patches SEE and EE-T respectively (red boxes). (D) EHEC Sakai VT-Stx2 Cro accession number WP\_000067727, does not have any residual patches in the predicted helix domains. (E) EHEC EDL933 933W Cro accession number NP\_286964, contain one domain at residual 50 with acid patch EE-S (red box). (F) Clustal Omega alignments of all the Cro used in the study. Phage BP-4795 Cro is 100 percent identical to EHEC strain 86-24 phage Cro. EHEC strain EDL933 contain three different phages: Shiga toxin 2 (Stx2) phage (ΦBP933W ), Shiga toxin 1 (Stx1) phage (ΦCP933V) and Cryptic phage. EHEC strain Sakai contain also three different phages: Shiga toxin 2 (Stx2), Shiga toxin 1 (Stx1) phage (ΦECs2989), and Cryptic phage (ΦCVTX2), Shiga toxin 1 (Stx1) phage (ΦECs2989), and Cryptic phage (ΦCP33V). Lambda phage Cro was added for comparison purposes. Cro accession numbers used in the alignment were : YP\_001449261.1, NP\_040629.1, WP\_000067727, NP\_286964.1, WP\_000437875, WP\_000437875.1,

WP\_001033078.1. (E) EHEC EDL933 933W Cro accession number NP\_286964, contain one domain at residual 50 with acid patch EE-S (red box). (F) Clustal Omega alignments of all the Cro used in the study. Phage BP-4795 Cro is 100 percent identical to EHEC strain 86-24 phage Cro. EHEC strain EDL933 contain three different phages: Shiga toxin 2 (Stx2) phage ( $\Phi$ BP933W ), Shiga toxin 1 (Stx1) phage ( $\Phi$ CP933V) and Cryptic phage. EHEC strain Sakai contain also three different phages: Shiga toxin 2 (Stx2), Shiga toxin 1 (Stx1) phage ( $\Phi$ ECs2989), and Cryptic phage ( $\Phi$ VTX2), Shiga toxin 1 (Stx1) phage ( $\Phi$ ECs2989), and Cryptic phage ( $\Phi$  ECs0275). Lambda phage Cro was added for comparison purposes. Cro accession numbers used in the alignment were : YP\_001449261.1, NP\_040629.1,

WP\_000067727, NP\_286964.1 , WP\_000437875, WP\_000437875.1,

WP\_001033078.1.

A Down regulated genes affected by  $\Delta cro$ 



Figure S5. Related to Figures 1-4. Microarray analysis of EHEC 8624  $\triangle$  cro grown anaerobically in DMEM. (A-B). Transcriptomic profile of a mutation in the bacteriophage transcription factor, *cro*, where approximately 800 genes were affected and grouped in categories. Majority of the affected genes were down regulated in  $\triangle$  cro (approximately 500) and the remaining genes were up regulated in  $\triangle$  cro (300).

(C) Summary of genes affected (down regulated) in the T3SS comprising genes related to the needle apparatus such as *espA*, and secreted encoded effectors like *espF*.

(D) Motility plates were conducted using a low concentration of agar (0.25%) in DMEM

anaerobically at  $37^{\circ}$ C overnight. Wild type EHEC 86-24 and isogenic  $\Delta cro$  were grown

D

in LB medium overnight, plates were stabbed in the middle with the respective strain and incubated anaerobically overnight.

(E) Motility experiments were conducted in triplicates at three independent times having a total of 9 replicates, the diameter was measured and a Student's *t-test* was conducted showing statistical significance at p<0.01 (\*\*). qRT-PCR of selected genes from the microarray experiments. RNA was extracted from EHEC 86-24 strains grown anaerobically in DMEM to an OD<sub>600</sub> of 0.6 (n=6 replicates per strain; asterisks, p<0.01; Student's *t*-test.

- (F) Up-regulated genes and
- (G) Down regulated genes affected by  $\triangle cro$  compared to wild type (WT) EHEC.







Figure S6. Related to Figures 5 and 6. The disease prognosis in mice can be influenced utilizing the EHEC 8624 bacteriophage Cro expressed in Trans

(A) Survival curves of mouse after infection with mock (PBS) and different C. rodentium

strains. The curves show a drastically difference between *Cr*-j11, *Cr*-j11-pcro and *C*. *rodentium* DBS100. There was a highly statistical significance comparing DBS100 either *Cr*-j11 or *Cr*-j11-pcro (\*\*\**p*<0.01). Nonetheless, there was not statistical significance within *Cr*-j11 and *Cr*-j11-pcro (n=15, analysis was done using Mantel-cox, and Grehan-Breslow-Wilcoxon tests in GraphPad prism). (B) 8624 *cro* phage gene isolated from mouse distal colon. The RNA from distal colon was extracted and cDNA converted . PCR reaction was conducted using primers to target the cro gene complemented in trans into pwsk129 plasmid. Each lane denotes a single mouse from different groups.