

AAW02013.1
AY123048.1:1:33-2200
Erwinia pyrifoliae Epi/96

AHK22013.1
CP007230.1:3805439-3808085
Yersinia similis

BAN02037.1
AP012551.1:2784525-2787341
Plautia stali symbiont

CAH09010300120.1:1:111-2022
Rahnella aquatilis

CQJ170804.
CTC01000432.1:17918-10967
Yersinia enterocolitica

EBC07100741.1
AAK0601000149.1:1-2991
Salmonella enterica subsp. *enterica* serovar *Agona*

EEY360518.1
ABAP1010000329.1:1-1137
Escherichia coli

EGT5200956.1
AAK010000021.1:17944-21703
Cronobacter sakazakii

EHM4500432.1
ABA1UC010000073.1:17089-20378
Salmonella enterica

ESC16013.1
AYD101000170.1:3064-5050
Salmonella enterica serovar *Agona* str. 0322

HAG1970732.1
DAAKPC010000011.1:109785-116985
Salmonella enterica

HAT2853423.1
DACSPM010000038.1:38547-41584
Serratia marcescens

HAT3809749.1
DACSW1010000008.1:1:4546-9755
Morganella morganii

HBE9181227.1
DAEHFB010000025.1:1:32511-38242
Serratia fonticola

HCB2517754.1
DAGZUP010000123.1:1-3837
Citrobacter freundii

HCD1877699.1
DAHHSR010000013.1:1-1464
Klebsiella aerogenes

KON65042.1
LML301000002.1:1:46052-49752
Serratia sp. Lead51

KYP09150.1
LAQ001000059.1:1:179783-184820
Bacteria symbiont Bf01 of Frankliniella occidentalis Bacteria.

MBK4237009.1
JAEFPK010000100.1:9280-10636
Enterobacter hormaechei

MBL8210166.1
JAEUQF010000064.1:1:17403-22794
Bryobacteriales bacterium

MBN541211.1
JAF1ZA010000014.1:1:35970-40405
Serratia marcescens

MBS0013709.1
JAHMHV010000002.1:1:653972-658487
Enterobacter cloacae

MC60236721.1
JAK1T010000005.1:1:164026-172064
Gammaproteobacteria bacterium

MCL407213.1
JAH0WJ010000070.1:1-5936
Anaerolinea bacterium

MCM780206.1
JAH0N010000054.1:1:364-899
Enterobacter hormaechei

MCR0900710.1
JAH1US010000011.1:903378-908530
Serratia rubidaea

MJC32004.1
RTA101000145.1:1-680
Salmonella enterica subsp. *enterica* serovar *Carno*

NIJU06070.1
JAH0W010000095.1:1:12039-14959
Enterobacteriaceae bacterium B17-123

QAS63046.1
CP05214.1:1:1151448-1157304
Klebsiella michiganensis

QK38094.1
CP054212.1:1:2132102-2136101
Paramixta manurensis

QK387618.1
CP054212.1:1:3016623-3020904
Paramixta manurensis

SFE83534.1
F0NB010000008.1:1:273601-277773
Phytobacter paluae

STE89083.1
UFZ001000001.1:1:4627589-4630949
Escherichia coli

THE09516.1
SLUD010000749.1:1:51-500
Kocuria rosea

TQ81328.1
VFH010000001.1:1:4128479-4130946
Serratia fonticola

VDZ08954.1
LR134125.1:1:289908-293249
Klebsiella aerogenes

VEA68257.1
LR134155.1:1:309282-314559
Serratia rubidaea

VTP64514.1
LRS90463.1:1:3091078-3095645
Serratia rubidaea

WP_014839084.1
NC_018106.1:1:4321755-4330198
Klebsiella michiganensis E718

WP_050030002.1
NZ_CPWG010000034.1:1:12721-19063
Yersinia pseudotuberculosis

WP_01192123.1
NC_000615.1:1:1881416-1884460
Yersinia pseudotuberculosis IP 32953

WP_019077676.1
NZ_JAC05010000016.1:1:94493-99681
Citrobacter braakii

WP_23029715.1
NZ_JADPEV010000007.1:1:2288-6161
Citrobacter freundii

WP_146500779.1
NZ_CABHW010000008.1:1:108750-116603
Yersinia alsatica

WP_006208469.1
NZ_CP028946.1:1:2134291-2138994
Serratia marcescens

WP_220768005.1
NZ_CTH021000017.1:1-3877
Yersinia enterocolitica

WP_1782057378.1
NZ_CP009128.1:1:3678061-3683662
Pantoea agglomerans

WP_210452301.1
NZ_JA0E40010000011.1:1:104787-109324
Pantoea ananatis

WP_047609150.1
NZ_RHS49131.1:1:267649-274777
Rahnella aquatilis

WP_198307842.1
NZ_JAH4010000021.1:1:76409-80959
Pectobacterium parmentieri

WP_240350044.1
NZ_JACGF010000001.1:1:2931471-2938061
Pectobacterium brasiliense

WP_061304627.1
NZ_CP014474.1:1:4041713-4046822
Serratia rubidaea

WP_126531886.1
NZ_JADUK010000003.1:1:269494-274263
Serratia rubidaea

WP_016928140.1
NZ_AP019009.1:1:1970900-1973344
Serratia marcescens

WP_017349277.1
NZ_ALX001000048.1:1:58276-61600
Pantoea sp. A4

WP_190510892.1
NZ_JAG0W010000001.1:1:4923341-4925920
Winslowiella toletana

WP_174354117.1
NZ_SW0001000003.1:1:209976-213551
Serratia proteamaculans

WP_174334663.1
NZ_CAMKJC010000018.1:1:56468-61368
Serratia fonticola

WP_236545796.1
NZ_CP099971.1:1:1897254-1902150
Enterobacter sp. SM3

WP_170250529.1
NZ_CAMT5F010000004.1:1:150279-156668
Serratia fonticola

WP_024540034.1
NZ_AWF201000029.1:1:323-2463
Siccibacter turicensis LMG 27370

WP_031521892.1
NZ_JMS001000008.1:1:105212-110413
Siccibacter colletis

WP_187606742.1
NZ_JACSW010000002.1:1:156078-159080
Pantoea agglomerans

WP_030500050.1
NZ_JRN101000003.1:1-1-669
Oligella urethralis DNF00040

WP_106208022.1
NZ_CAMP1E010000005.1:1:188003-193373
Photorhabdus stackebrandtii

WP_234072763.1
NZ_CP000454.1:1:2152281-2156319
Pantoea rwandensis

WP_050209131.1
NZ_CUB091000026.1:1-14714
Yersinia intermedia

WP_205654242.1
NZ_JACH01010000063.1:1:22079-25156
Pectobacterium brasiliense

WP_232070167.1
NZ_CAK1I0010000012.1:1:77267-80532
Pectobacterium versatille

WP_174300650.1
NZ_JB0N010000000.1:1:1154212-1161057
Enterobacter mori

WP_043005396.1
NZ_CP004550.1:1:4732105-4736509
Pluralibacter gergoviae

WP_233963694.1
NZ_CAK1X010000032.1:1:175-1660
Pectobacterium versatille

WP_070600368.1
NZ_J0BF5F010000001.1:1:896003-901465
Serratia marcescens

WP_220717741.1
NZ_CP124242.1:1:1938405-1942688
Yersinia enterocolitica

WP_144417026.1
NZ_C0BP010000022.1:1:79188-80866
Yersinia intermedia

WP_132499386.1
NZ_S13001000004.1:1:37985-41349
Pantoea agglomerans

WP_053115079.1
NZ_JR0X010000001.1:1:151866-156339
Winslowiella infecta

WP_101500818.1
NZ_JR2Z010000078.1:1:469-5987
Erwinia sp. B16

WP_166932430.1
NZ_VW0C010000003.1:1:47732-56961
Candidatus Pantoea communis

WP_058300813.1
NZ_CP013990.1:1:4213061-421749
Leclercia adecarboxylata

WP_135638662.1
NZ_CP030602.1:1:4593856-4597794
Serratia nematodiphila

WP_207002094.1
NZ_JACBKS010000027.1:1:49161-53293
Pantoea agglomerans

WP_067345206.1
NZ_FLOE010000042.1:1:185604-189389
Marinomonas spartinae

WP_0710000203.1
NZ_CAXYKA010000001.1:1:137695-144323
uncultured Pantoea sp.

WP_0710000009.1
NZ_CABH0F010000011.1:52210-55265
Yersinia brucovieri

WP_070584613.1
NZ_RP024097.1:1:1510470-1516903
Vibrio quintilis

WP_084183201.1
NZ_RP024061.1:1:726288-731046
Vibrio aerogenes

WP_070600308.1
NZ_R0ZM010000025.1:1:54869-59694
Salmonella enterica subsp. *enterica* serovar *Edinburgh*

WP_086133058.1
NZ_CAH0W010000090.1:1:21448-25216
Xenorhabdus beddingii

WP_092000687.1
NZ_CAM00010000034.1:1:245048-249389
Xenorhabdus maulonii

WP_343027107.1
NZ_FMA010000003.1:1:307095-314082
Rhodospira trueperi

WP_098407899.1
NZ_CP014136.1:1:4321474-4329395
Gibbsiella quercinecans

WP_099319784.1
NZ_N0JT010000021.1:1-898
Erwinia amylovora

WP_100646663.1
NZ_P1B0010000018.1:1:34427-38699
Raoultella sp. T21

WP_101825003.1
NZ_P31001000012.1:1:116723-123959
Chimeribacter sp. C116723

WP_233008986.1
NZ_CAK1IC010000007.1:1:139-5462
Pectobacterium versatille

WP_104924882.1
NZ_CP019963.1:1:27863-37552
Rahnella sakkinka

WP_240912275.1
NZ_CP026377.1:1:3016998-3023885
Mixta gaviniae

WP_181134769.1
NZ_JABDY0010000010.1:91356-97016
Pantoea ananatis

WP_190776386.1
NZ_CP023268.1:1:3324996-3329191
Serratia sp. MY629

WP_106475057.1
NZ_MNK010000764.1:1-1-439
Yersinia pseudotuberculosis

WP_115490071.1
NZ_ORAP010000006.1:1:173070-177050
Enterobacillus triboii

WP_230471622.1
NZ_M1JL010000025.1:1:645895-67909
Gibbsiella quercinecans

WP_197039022.1
NZ_JACEX010000003.1:1:229523-234318
Serratia marcescens

WP_250450080.1
NZ_JALMGI020000003.1:1:506729-510221
Rahnella permimoviae

WP_250450080.1
NZ_JALMGI020000003.1:1:56672-64076
Rahnella permimoviae

WP_171349370.1
NZ_JAH0WJ010000006.1:1:152179-156585
Erwinia sp. JH02

WP_238337000.1
NZ_CAH0W010000001.1:1:4689470-4693909
Erwinia rhapontici

WP_227585215.1
NZ_CAH0W010000001.1:1:4557302-4563345
Erwinia rhapontici

WP_238337108.1
NZ_JAH0WJ010000001.1:1:3735164-3738758
Erwinia rhapontici

WP_170900030.1
NZ_CAH0W010000002.1:1:49212-54367
Photorhabdus terrerorhabdus subsp. *aluminescens*

WP_158762759.1
NZ_MW01010000031.1:1:2372682-2376815
Pantoea sp. BW 3049

WP_158762759.1
NZ_JAH0WJ010000001.1:1:451
Klebsiella pneumoniae

WP_160620475.1
NZ_CP018271.1:1:693939-698286
RX10a entericinis

WP_164124013.1
NZ_JAARJ0100000027.1:1:2887-4834
Serratia marcescens

WP_172086782.1
NZ_CP054847.1:1:37454-42274
Yersinia massiliensis

WP_195432514.1
NZ_JADNH010000011.1:1:98422-106226
Morganella morganii

WP_198774169.1
NZ_JAEKCK010000046.1:1:281-843
Serratia odorisera

WP_190003150.1
NZ_JAELT010000039.1:1:42034-46527
Serratia sp. ASV39

WP_200713471.1
NZ_CP024768.1:1:2007020-2010300
Pantoea cypripedii

WP_22838980.1
NZ_JAESHW010000018.1:1:43313-50940
Pectobacterium polaris

WP_251757030.1
NZ_DALYLV010000001.1:1:568636-573334
Pseudoscherichia sp.

WP_29191094.1
NZ_LC08265.1:1:297869-298375
Leclercia sp. G3L

WP_23081004.1
NZ_CP013970.1:1:2559506-2560629
Erwinia tracheiphila

WP_252000010.1
NZ_JAHUUE010000004.1:1:98466-101681
Buttiauxella sp. BTG0471

Stox-45 ? Rop

HTH_Tnp_1 HTH_21 rve rve_2 Phagetail-5 Stox-45 ?

? Stox-45 Ssp6 VlpB VlpB_2 VlpB

HI0933_Like Stox-45 ? T6SS_HCP

? Din1 Ssp6 ? FliE

VasI T6SS_HCP Ssp6 ImpA_N

Ssp6 ClpABC-AAA

? OAH-Emi2 Ssp6 ? 35exo

ImpA_N VasI T6SS_HCP Ssp6

ImpA_N VasI IcmF_C Ssp6

ImpA_N VasI T6SS_HCP Ssp6 ? Phage_A1pA

4HBT OcuA_DcuB Stox-45

YAEb tRNA-synt_2b YBAK NGTP_anticodon Stox-45 NlpE_C NlpE ROP

ThiF ABC_tran ABC_tran_Xtn ABC_tran Stox-45 LysR_substrate Pro_CA

Ssp6 Clp_N ClpABN-AAA ClpABC-AAA T6SS_HCP

Stox-45 Tai4 ?

T6SS_HCP ? Stox-45 Aminotran_1_2 ABC_tran

Amidohydro_1 HsdT Stox-45 ? UTR

T6SS_HCP ? Ssp6

DUF4892 OmpA ? Ssp6 DOMON AXEL Peptidase_59

ThiF ABC_tran ABC_tran_Xtn ABC_tran Stox-45 ? Peptidase_59

ABC_tran ? Stox-45 Ogr_Delta Phage_GPD

Autotransporter Calx-beta Calx-beta Calx-beta Calx-beta Calx-beta Bact_surface_Tg-like DUF289 Ssp6 ?

qH5 HSP70 Ssp6 HTH Concanavalin-Like

Ssp6

? ? Stox-45 CDP-OH_P_transit GIY-YIG UVR UvrC RNaseH_dom HHH_5

? Ssp6

DUF179 RuvX Ssp6 ? Acetylase

Phage_GPD VgrG T6SS_Vgr DUF2345 ? Stox-45 ClpABN-AAA T6SS_HCP

AsiB AstE_AspA Ssp6 XbaC LprI

HK DUF943 Ssp6 ? TIMbarrel

T6SS_VlpB VlpB VlpB_2 Stox-45 ? RspA

VgrG T6SS_Vgr DUF2345 Phage_GPD Ssp6 Ssp6 ClpB_D2-small

Ssp6

? T6SS_HCP Stox-45 ? ?

Asp-AL_Ex TrkAC TrkAC Asp-AL_Ex ? Ssp6 adh_short_C2 TetR-HTH TetR_C_31

FN3-repeats LysR_substrate Stox-45 ? LuxR-HTH

GerE OSRB Ssp6 ? ?

ODE_Tnp_1_5 Phage_GPD VgrG T6SS_Vgr DUF2345 Ssp6 T6SS_HCP OmpA

Sod_Fe_C Sod_Fe_N MA HAMF HBM Stox-45 ? OHL3

Epimerase ? Ssp6 Tai4 ?

T6SS_HCP CapCone-1 ? Stox-45 Clp_N ClpABN-AAA ClpABC-AAA

? ImpA_N VasI T6SS_HCP Ssp6 Ssp6

T6SS_HCP Tae4 Ssp6 ClpABN-AAA ClpABC-AAA Phage_GPD VgrG T6SS_Vgr DUF2345

ExbD Ldt_C YkuD LysM TonBC GyrI-like HTH_18 Stox-45

FliE YscJ FLIF YscJ FLIF_C Ssp6

GF0_IDH_MocA_C GF0_IDH_MocA ? MFS_3 Ssp6 ?

? ZT_dimer Cation_efflux Phage_GPD Ssp6 Ogr_Delta

SDF TerC PBPI LacI Stox-45 Cation_ATPase_N_EI-E2_ATPase Cation_ATPase HAD Cation_ATPase_C

DUF5679 T6SS_HCP T6SS_VlpB VlpB VlpB_2 Stox-45

DUF3413 Sulfatase rve HTH_38 HIN-HTH ? Arn-DNA-bind_3 Phage_int_SAM_3 Phage_integrase Stox-45

DUF2870 GST_N_2 Porin_1 Stox-45 CltB-HTH

DUF1414 DUF1493 DUF1493 Ssp6 DUF3413 Sulfatase

Stox-45 ? ? ? ? ?

Phage_int_SAM_1 Phage_integrase Flavodoxin_1 Stox-45 Cpta_toxin Sdh5

Acetylase ? ? DUF4440 Stox-45

Pro_CA ? Stox-45 Metallopeptidase ?

ABC_tran ABC_tran_Xtn ABC_tran Stox-45 Pro_CA LysR_substrate

Gp_dh_N Gp_dh_C SeLR MspA Aldose_epim Stox-45

Phagesheath Phage_tube Ssp6 Caudo_TAP DUF3751 Phage_fiber_2 Phage_T4_gp36

? NG_Mtase Ssp6

PBP1 PanZ Stox-45 Sigma70_r1_2 Sigma-HTH PBP1

Ribonuc_L_PSP ? Ssp6 ? 03_4

Ssp6

? ? Stox-45 Exonuc_X-T_C FAD_binding_4 Lact-deh-memb

T6SS_VlpB VlpB VlpB_2 ? T6SS_HCP Stox-45

GDResolvase HIN-HTH Ssp6 ODE_Tnp_Tn3 DUF4158

T6SS_HCP P2_Phage_GpB Phagetail-5 Ssp6 VgrG Phage_spike

PBP1I ab-Hydrolase Ssp6

T6SS_HCP ? Stox-45 Phage_GPD VgrG T6SS_Vgr DUF2345 ClpABN-AAA ClpABC-AAA

T6SS_HCP ? Stox-45 ? His_Kinase SPOB_a PAS_sCache_1_2

? Ssp6

HicA_toxin Ssp6 HicB Phage_portal Terminase_5 Terminase_L5

? ? ? Stox-45 Ssp6 MazE_antitoxin

? ? Ssp6

? Ssp6 DUF1493 ? ?

Aminotran_1_2 GntR-HTH RHOD-CDG2 ? Stox-45 TctA

T6SS_HCP ClpABN-AAA ClpABC-AAA Stox-45 ? Phage_GPD

T6SS_HCP ClpABN-AAA ClpABC-AAA Stox-45 Phage_GPD VgrG T6SS_Vgr DUF2345 ?

AldeH T6SS_HCP Stox-45 HTH_18 AraC_binding LysE

GST_C_4 GST_N_2 ? Ssp6 Acetylase ?

? ? TetR-HTH adh_short Ssp6

? Ssp6 ? ? HTH_Tnp_1

Stox-45 ? ClpABN-AAA ClpABC-AAA ? ?

Stox-45 Phage_tube Phagesheath

Pyridoxal_deC tyr_de_C02_C T6SS_HCP PG-binding Stox-45 Stox-17

Amidohydro_1 F0ase Ssp6 ? T6SS_HCP

ImpA_N VasI T6SS_HCP Ssp6 ? ?

MalM ? Stox-45 T6SS_HCP SH3 Polysacc_deac_1

Tautomerase Stox-45 T6SS_HCP DNA_binding_1 Methyltransf_1N HTH_18 Ada_Zn_binding ViruI_fac_BrkB

Amidase_3 TOBE_2 ABC_tran Ssp6 CHASE His_Kinase T