

AFK02683.1  
CP002961.1:1:1446411-1457218  
*Emeticicia oligotrophica DSM 17448*

AWH89620.1  
CP029185.2:1047011-1055697  
*Limnobaculum parvum*

CCP05885.1  
CAPE01000008.1:171184-177728  
*Erwinia amylovora MRI*

EAS9164814.1  
AADP5N010000061.1:22531-25313  
*Salmonella enterica*

EGOR355125.1  
AAXEGZ010000139.1:106-2784  
*Escherichia coli*

EGT0625688.1  
AAXUEN010000005.1:39115-43047  
*Citrobacter freundii*

HCR76401.1  
DQGT010000259.1:2436-8594  
*Chryseobacterium sp.*

KGO98760.1  
AVH01000051.1:2966-9921  
*Lyso bacter defluvi* IMMIB APB-9 = DSM 18482

MBA4155643.1  
PNJW01000115.1:255-3159  
*Flavobacterium sp.*

MBE9020061.1  
JACHHY010000074.1:27-1904  
*Chitinivorax tropicus*

MBC7664653.1  
JACMOG010000542.1:1410-6621  
*Vitreoscilla sp.*

MBP5120705.1  
JABVY0010000222.1:2-1733  
*Pseudomonas protegens*

MBQ6070172.1  
JAFRRL010000003.1:31899-37769  
*Bacteroides bacterium*

MB563983.1  
PBVA01000049.1:148001-154964  
*Salinisphaera sp.*

MBW8760171.1  
JAEKX010000204.1:1162-4583  
*Burkholderia bacterium*

MCK9103938.1  
JALNW010000227.1:238-5155  
*Nevskia sp.*

MCL2590075.1  
WQYV01000042.1:596-10596  
*Betaproteobacteria bacterium*

MCL645032.1  
SGPP01000004.1:124173-130239  
*Dickeya dadantii*

MCP5087941.1  
JAAEU1010000433.1:40059-44257  
*Rhodobacteraceae bacterium*

NKE95914.1  
JAAVX1010000022.1:1045853-1054000  
*Pantoea agglomerans*

OCY01050.1  
LYZF01000024.1:46424-50615  
*Aeromonas hydrophila*

OWQ84330.1  
NIOG01000010.1:238608-247132  
*Roseateles terrae*

RQM36375.1  
RHHM01000025.1:22168-28481  
*Erwinia psidii*

RZJ70727.1  
SEBR01000014.1:66630-71785  
*Flavobacterium sp.*

TCL05517.1  
SJOI01000001.1:3980154-3988078  
*Sodalis ligni*

TRX30136.1  
VJZS01000006.1:221985-228168  
*Flavobacterium sp. ZT3R18*

UNT60671.1  
CP062182.1:2906712-2913592  
*Acinetobacter sp. ASP199*

WP\_005181377.1  
NZ\_CP094254.1:180624-188524  
*Acinetobacter indicus*

WP\_005699575.1  
NZ\_AJTC01000014.1:121-2863  
*Haemophilus parainfluenzae HK2019*

WP\_225311791.1  
NZ\_CP014133.1:11110756-1117651  
*Vibrio diabolicus*

WP\_1553989508.1  
NC\_021290.1:2201982-2208758  
*Aeromonas hydrophila ML09-119*

WP\_081693197.1  
NZ\_BAABTA010000005.1:234529-240165  
*Vibrio proteolyticus*

WP\_159284843.1  
NZ\_CACSGZ010000043.1:20099-23382  
*Tenacibaculum maritimum*

WP\_024870706.1  
NZ\_AZUK01000001.1:346335-352234  
*Tolumonas lignilytica*

WP\_157755382.1  
NZ\_11B001000009.1:59517-64405  
*Lonsdalea quercina subsp. quercina*

WP\_051870444.1  
NZ\_CAWLWN010000072.1:5452-10508  
*Xenorhabdus bovienii str. puntauvene*

WP\_051502339.1  
NZ\_CAWLVK010000149.1:84-1417  
*Xenorhabdus cabanillasii JM26*

WP\_042275622.1  
NZ\_BAYC01000035.1:61082-69104  
*Paraburkholderia fungorum NBRC 102489*

WP\_130992780.1  
NZ\_CP050150.1:1813450-1817467  
*HaTnia alvei*

WP\_061539154.1  
NZ\_CP013232.1:1376102-1381342  
*Collimonas fungivorans*

WP\_063971256.1  
NZ\_JAHTW010000040.1:3318-11292  
*Epilithonimonas sp. FP105*

WP\_076563025.1  
NZ\_FTOL01000006.1:137343-142137  
*Chryseobacterium ureilyticum*

WP\_085276542.1  
NZ\_FXAG01000011.1:92002-98280  
*Pseudogulbenkiania subflava DSM 22618*

WP\_092519614.1  
NZ\_CAWRAH010000059.1:52608-60649  
*Xenorhabdus japonica*

WP\_095599790.1  
NZ\_MUJY01000113.1:1-4902  
*Pseudomonas sp. PIC25*

WP\_228153715.1  
NZ\_CAJYH010000265.1:12864-17886  
*uncultured Acinetobacter sp.*

WP\_101262510.1  
NZ\_WUD01000014.1:79880-88005  
*Lablilbaculum filiforme*

WP\_223228662.1  
NZ\_CABPUK010000002.1:136498-146887  
*Campylobacter concisus*

WP\_105746391.1  
NZ\_JAUEJM010000024.1:16084-24536  
*Cronobacter dublinensis*

WP\_108005553.1  
NZ\_QMKCG1000018.1:61081-67036  
*Aquimarina sp. Aq107*

WP\_113963530.1  
NZ\_UEGW01000001.1:1825612-1829105  
*Mycobacterium shimoidae*

WP\_181814357.1  
NZ\_UQU001000001.1:648501-651796  
*Moraxella lacunata*

WP\_121975771.1  
NZ\_OOGT01000276.1:136-3946  
*Acinetobacter stercoris*

WP\_186154576.1  
NZ\_CADEZ010000011.1:81388-88578  
*Burkholderia gladioli*

WP\_125011115.1  
NZ\_RQUR01000001.1:97179-101979  
*Flavobacterium macacae*

WP\_164969381.1  
NZ\_CP041070.1:1031217-1037223  
*Halarcobacter anaerophilus*

WP\_131979745.1  
NZ\_SLYB010000050.1:2139-5896  
*Cricetibacter osteomyelitis*

WP\_152224120.1  
NZ\_CP045118.1:3667571-3675224  
*Pseudomonas sp. SCB32*

WP\_154200238.1  
NZ\_SADB01000007.1:187699-194784  
*Ancylomarina sp. 165MW SI-10-2*

WP\_155472520.1  
NZ\_BMKG010000005.1:181042-189989  
*Pseudoduganella buxae*

WP\_150940295.1  
NZ\_LMUF010000061.1:133483-141503  
*Burkholderia sp. SI71*

WP\_175623509.1  
NZ\_CAES010000045.1:826-9356  
*Chryseobacterium schmidtiae*

WP\_189760580.1  
NZ\_CAMP010000207.1:24148-32127  
*Xenorhabdus griffithiae*

WP\_192432649.1  
NZ\_JACVBX010000006.1:180022-187573  
*Pseudomonas sp. PDM18*

WP\_193162724.1  
NZ\_JACRRX010000001.1:2288717-2292465  
*Enterobacter ludwigii*

WP\_196306470.1  
NZ\_JADKPZ010000040.1:89-2088  
*Arcobacter vandammei*

WP\_202246685.1  
NZ\_JAESY010000019.1:9352-14919  
*Fulvirigia sediminis*

WP\_205778552.1  
NZ\_JACANK010000075.1:232-1626  
*Aggregatibacter actinomycetemcomitans*

WP\_211441416.1  
NZ\_JAGOE010000001.1:1006337-1011824  
*Collimonas humicola*

WP\_216130453.1  
NZ\_CP064782.1:1622513-1628707  
*Azospira inquilinata*

WP\_225548051.1  
NZ\_JATU010000007.1:217592-224248  
*Chromobacterium violaceum*

WP\_22670928.1  
NZ\_CP075186.1:2716360-2723560  
*Dechloromonas denitrificans*

WP\_232293962.1  
NZ\_JAJTS0010000006.1:31412-39092  
*Massilia antarctica*

WP\_237396347.1  
NZ\_CAWQTY010000077.1:201-4218  
*Xenorhabdus sp. SC-CR9*

WP\_244741273.1  
NC\_P091522.1:572596-579459  
*Neisseria sp. Dent CA1/247*

WP\_250025597.1  
NZ\_CP997331.1:2182558-2188401  
*Cupriavidus campinensis*

FN3 STox-56 SH3 STox-46 TPR ?

ArsC Phage\_GPD VgrG T6SS\_Vgr DUF2349 STox-46 TPR ?

? ? STox-46 PAAR\_motif Phage\_GPD

ImpA\_N VastL PBPTI STox-46

? STox-46

REase-5 Imm5 PAAR\_motif STox-46 ? ?

? ? STox-46 ?

ParD Phage\_GPD VgrG T6SS\_Vgr DUF2349 STox-56 ? ?

? LysM STox-46 DUF2345 LPD16

? ? STox-46

Phage\_GPD VgrG ? STox-46 PP2C ?

? STox-46

? ? STox-46 ? TPM1-3 DUF6402

PAAR\_motif ? EF-hand\_1 STox-56 Phage\_GPD VgrG T6SS\_Vgr DUF2349 DotU

? Flavin\_Reduct STox-46 ? MoaE

ODE\_Tnp\_1 DUF4096 ? STox-46 DUF2345

WG\_beta\_rep WG\_beta\_rep WG\_beta\_rep WG\_beta\_rep WG\_beta\_rep WG\_beta\_rep WG\_beta\_rep WG\_beta\_rep WG\_beta\_rep WG\_beta\_rep DUF1176 ? EF-hand\_1 STox-46 Lpr1 Pesticin

? ? STox-46 YicC\_N DUF1732 LysR\_substrate

? ? STox-46 End\_beta\_barrel ?

PAAR\_motif ? STox-46 Phage\_GPD VgrG T6SS\_Vgr DUF2349 ClpABN-AAA ClpABC-AAA

THF\_DHG\_CYH THF\_DHG\_CYH\_C ? STox-46

HNH ? STox-46 ? HIN

QMP-BB ? Phage\_GPD VgrG T6SS\_Vgr DUF2349 ClpB\_D2-small STox-46

? DUF4280 PG\_binding\_1 Peptidase\_M15\_3 STox-46 TPR ?

PAS HAMP MA HFS\_1 STox-46 ? DHDPs

? TPR STox-46 ? ?

Dyp\_perox\_C Dyp\_perox\_N ? ODE\_Tnp\_4 HTH\_Tnp\_4 Phage\_GPD VgrG T6SS\_Vgr DUF2349 STox-46

STox-46 Dyp\_perox\_C Dyp\_perox\_N malic Malic\_M ? Phage\_GPD VgrG T6SS\_Vgr DUF2349

? STox-46 ?

DotU T6SS\_Vase ? ? STox-46

T6SS\_HCP Phage\_GPD VgrG DUF2349 ? ? EFHAND STox-46

Cytochrom\_B562 Tox-PAAR-like ? PHP STox-46

? TPR TPR STox-46 ?

Receiver CitB-HTH TPR STox-46 DIM DLH MoaE

Aldolase\_II Aminotran\_1\_2 CNHydrolase ? STox-46

Phage\_GPD VgrG DUF2349 DUF4123 CarboxypepD-reg-IG STox-46 ? ?

? STox-46 ?

MazG-like SH3 STox-46 Phage\_GPD VgrG T6SS\_Vgr DUF2349 TPR DUF218

ChaC ? PAAR\_motif STox-46 ? Glyoxalase

STox-46 ? ? Phage\_GPD VgrG T6SS\_Vgr DUF2349 DUF2471

? PG\_binding\_1 STox-46 TPR ? DUF4280

Cauli\_VI RNaseH TPR STox-46 LysM DUF4280 ?

STox-46 Phage\_GPD VgrG T6SS\_Vgr DUF2349 OpuAC ? ?

? STox-46 DUF4123 ? ODE\_Tnp\_1\_assoc

STox-46 TPR ?

Na\_H\_antiporter ? PAAR\_motif STox-46 Arabinose\_bd HTH\_18

TPR STox-46 tRNA-synt\_1 Anticodon\_1 Val\_tRNA-synt\_C PG-binding PAAR\_motif

? ? Mur\_ligase\_M ? STox-46

STox-46 OmpA Phage\_GPD VgrG T6SS\_Vgr DUF2349 ? ?

LysM STox-46 DUF6242 LRR LRR ? ?

PG-binding Peptidase\_C39\_2 STox-46 NLPC NADAR ?

LprI ? Oxidored\_g6 DUF2004 PAAR\_motif STox-46

PAAR\_motif STox-46 ? 5-nucleotidase PAAR\_motif

TPR ? Phage\_GPD VgrG T6SS\_Vgr DUF2349 ? STox-46

? ? PG\_binding\_1 STox-46 DUF4280 ?

EFHAND STox-56 ? SH3 Transposase\_mut STox-46

LysM ? STox-46 LysM

PAAR\_motif ? EF-hand\_6 STox-46 Phage\_GPD VgrG T6SS\_Vgr DUF2349 ?

? TPR IG-TPMLf STox-46 TssD Sulfatase\_C Sulfatase

CHASE3 GGDf ? STox-46 TonB\_dep\_Rec Plug ?

STox-46 TPR ? VipB VipB\_2 Phage\_GPD VgrG T6SS\_Vgr DUF2349

ODE\_Tnp\_Tn3 DUF4158 ? STox-46 SDA1\_dom

STox-46 RecC\_C Exonuc\_V\_gamma Peptidase\_M16\_C Peptidase\_M16\_M Peptidase\_M16\_C Peptidase\_M16 ?

TPR ? SH3 SH3 STox-46 ? Phage\_GPD VgrG T6SS\_Vgr DUF2349

Tox-REase-5 Imm5 PAAR\_motif STox-46 ? DUF2913

? TPR STox-46

TPR ? LysM STox-46 TssD TssC

? STox-46

? ? STox-46 Phage\_GPD VgrG T6SS\_Vgr DUF2349 ?

NLPC ? STox-46 Phage\_GPD VgrG T6SS\_Vgr DUF2349 DUF4124 Glutaredoxin

HKD HKD ? STox-46 Phage\_GPD VgrG T6SS\_Vgr DUF2349 Tssr172

Tae4 VgrG T6SS\_Vgr DUF2349 ? STox-46 Phage\_GPD VgrG T6SS\_Vgr DUF2349 CarboxypepD-reg-IG

ImpA\_N Phage\_GPD VgrG T6SS\_Vgr DUF2349 LysM STox-46 ? ?

? CarboxypepD-reg-IG STox-46 ? YwqJ-deaminase

Queuosine\_synth TerC CorC\_HlyC LysM DUF4775 STox-46 ? VgrG T6SS\_Vgr DUF2349

Phage\_GPD VgrG T6SS\_Vgr DUF2349 ? STox-46 ? TPR