Macrolide export ATP-binding/permease protein MacB (MHCFNAPL_00006)
Trehalose-recycling ABC transporter (VF0842) (MHCFNAPL_00002)
Trehalose-recycling ABC transporter (VF0842) (MHCFNAPL_00003)
ATP-dependent RecD-like DNA helicase (MHCFNAPL_00010)
Trans-3-hydroxy-L-proline dehydratase (MHCFNAPL_00008)
D-erythritol 1-phosphate dehydrogenase (MHCFNAPL_00005)
Alginate biosynthesis protein AlgA (MHCFNAPL_00009)
Macrolide export protein MacA (MHCFNAPL_00007)
HitABC (VF0268) (MHCFNAPL_00004)
1
11 Pyridoxine 5'-phosphate synthase (MHCFNAPL_00012)
IMGPR_plasmid_3300045132_000076 145:14722(+)
Trehalose transport system permease protein SugB (AKEEKGGC_00003)
Macrolide export ATP-binding/permease protein MacB (AKEEKGGC_00008)
Trehalose-recycling ABC transporter (VF0842) (AKEEKGGC_00004)
Trehalose-recycling ABC transporter (VF0842) (AKEEKGGC_00005)
D-erythritol 1-phosphate dehydrogenase (AKEEKGGC_00007)
HitABC (VF0268) (AKEEKGGC_00006)
1 2
Macrolide export protein MacA (AKEEKGGC_00009)
IMGPR_plasmid_3300045230_000068 141:16608(+)
Macrolide export ATP-binding/permease protein MacB (LLKMAGIL_00002)
Macrolide export protein MacA (LLKMAGIL_00003)
LLKMAGIL_00001
IMGPR_plasmid_3300044919_000080 460:10597(+)
Inositol 2-dehydrogenase/D-chiro-inositol 3-dehydrogenase (MIJCKEEK_00005)
Trehalose transport system permease protein SugB (MIJCKEEK_00011)
Macrolide export ATP-binding/permease protein MacB (MIJCKEEK_00016)
Trehalose-recycling ABC transporter (VF0842) (MIJCKEEK_00012)
Trehalose-recycling ABC transporter (VF0842) (MIJCKEEK_00013)
Ribose import ATP-binding protein RbsA (MIJCKEEK_00001)
D-erythritol 1-phosphate dehydrogenase (MIJCKEEK_00015)
Ribose import permease protein RbsC (MIJCKEEK_00003)
putative sugar kinase YdjH (MIJCKEEK_00007)
BopD (VF0362) (MIJCKEEK_00004)
HitABC (VF0268) (MIJCKEEK_00014)
Glycerol kinase (MIJCKEEK_00008)
2
6
9 10
Macrolide export protein MacA (MIJCKEEK_00017)
IMGPR_plasmid_3300049635_000071 3:26209(+)
Inositol 2-dehydrogenase/D-chiro-inositol 3-dehydrogenase (DBAGLJMA_00002)
Trehalose transport system permease protein SugB (DBAGLJMA_00008)
Macrolide export ATP-binding/permease protein MacB (DBAGLJMA_00013)
Trehalose-recycling ABC transporter (VF0842) (DBAGLJMA_00009)
Trehalose-recycling ABC transporter (VF0842) (DBAGLJMA_00010)
HTH-type transcriptional repressor CytR (DBAGLJMA_00001)
D-erythritol 1-phosphate dehydrogenase (DBAGLJMA_00012)
putative sugar kinase YdjH (DBAGLJMA_00004)
HitABC (VF0268) (DBAGLJMA_00011)
Glycerol kinase (DBAGLJMA_00005)
3
6 7
Macrolide export protein MacA (DBAGLJMA_00014)
IMGPR_plasmid_3300044916_000101 22:22700(+)
Galactose/methyl galactoside import ATP-binding protein MglA (LKGMDOHL_00076)
Inositol 2-dehydrogenase/D-chiro-inositol 3-dehydrogenase (LKGMDOHL_00072)
Trehalose transport system permease protein SugB (LKGMDOHL_00066)
L-cystine transport system permease protein YecS (LKGMDOHL_00079)
Macrolide export ATP-binding/permease protein MacB (LKGMDOHL_00061)
Gamma-glutamylputrescine oxidoreductase (LKGMDOHL_00082)
Trehalose-recycling ABC transporter (VF0842) (LKGMDOHL_00065)
Ribose import permease protein RbsC (LKGMDOHL_00074)
Multidrug resistance protein MdtA (LKGMDOHL_00086)
putative sugar kinase YdjH (LKGMDOHL_00070)
Xylitol-binding protein (LKGMDOHL_00077)
Trehalose-recycling ABC transporter (VF0842) (LKGMDOHL_00064)
FbpABC (VF0272) (LKGMDOHL_00078)
D-erythritol 1-phosphate dehydrogenase (LKGMDOHL_00062)
FbpABC (VF0272) (LKGMDOHL_00084)
BopD (VF0362) (LKGMDOHL_00073)
HitABC (VF0268) (LKGMDOHL_00063)
PEB1 (VF0327) (LKGMDOHL_00080)
Glycerol kinase (LKGMDOHL_00069)
87 85 83 81 75 71 68 67
Macrolide export protein MacA (LKGMDOHL_00060)
IMGPR_plasmid_3300045211_000045 58153:96416(-)
Galactose/methyl galactoside import ATP-binding protein MglA (ICLLADJH_00014)
Inositol 2-dehydrogenase/D-chiro-inositol 3-dehydrogenase (ICLLADJH_00018)
Trehalose transport system permease protein SugB (ICLLADJH_00024)
L-cystine transport system permease protein YecS (ICLLADJH_00011)
Macrolide export ATP-binding/permease protein MacB (ICLLADJH_00029)
Gamma-glutamylputrescine oxidoreductase (ICLLADJH_00008)
Trehalose-recycling ABC transporter (VF0842) (ICLLADJH_00025)
Hydroxyacylglutathione hydrolase (ICLLADJH_00002)
Ribose import permease protein RbsC (ICLLADJH_00016)
Multidrug resistance protein MdtA (ICLLADJH_00004)
putative sugar kinase YdjH (ICLLADJH_00020)
Xylitol-binding protein (ICLLADJH_00013)
Trehalose-recycling ABC transporter (VF0842) (ICLLADJH_00026)
FbpABC (VF0272) (ICLLADJH_00012)
D-erythritol 1-phosphate dehydrogenase (ICLLADJH_00028)
FbpABC (VF0272) (ICLLADJH_00006)
BopD (VF0362) (ICLLADJH_00017)
HitABC (VF0268) (ICLLADJH_00027)
Methionine synthase (ICLLADJH_00003)
PEB1 (VF0327) (ICLLADJH_00010)
Glycerol kinase (ICLLADJH_00021)
1 5 7 9 15 19 22 23
Macrolide export protein MacA (ICLLADJH_00030)
IMGPR_plasmid_3300045236_000065 89:43814(+)
10000 nt
Virulence