

Table S5. The Tn5-erythromycin magic pool

<b>Plasmids used for making the Tn5-Erm magic pool</b>		
<b>Part plasmid</b>	<b>Description</b>	<b>part ID</b>
<b>one part1 plasmid</b>		
pHLL212	part1 for Tn5 transposon vector	
<b>mix of 10 part2 plasmids</b>		
pHLL216	part2 (kanR promoter from pKMW2)	p2.1
pHLL217	part2 (CatR promoter from pDONR221)	p2.2
pHLL218	part2 (ErmR promoter from pMarA)	p2.3
pHLL219	part2 (AmpR promoter from pMarA)	p2.4
pJW9	part2 (tetA promoter from pKMW7)	p2.5
pJW64	part2 (apFAB68 promoter)	p2.6
pJW66	part2 (dnaE promoter from <i>Bacteroides thetaiotaomicron</i> )	p2.7
pJW78	part2 (Lig promoter from <i>Bacteroides thetaiotaomicron</i> )	p2.8
pJW82	part2 (Glycosyltransferase promoter from <i>Echinicola vietnamensis</i> KMM 6221, DSM 17526)	p2.9
pJW85	part2 (Glycosyltransferase promoter from <i>Pontibacter actiniarum</i> )	p2.10
<b>mix of 5 part3 plasmids</b>		
pJW21	part3 (ErmR gene from pExchange)	p3.1
pYS12	part3 (ErmR erythromycin resistance gene from pLOR_empty)	p3.2
pYS14	part3 (ErmBP erythromycin resistance gene from pHLL24)	p3.3
pYS13	part3 (ErmR erythromycin resistance gene from pMob-efgpErmCat-aspSac-pigEKO)	p3.4
pYS16	part3 (ErmR erythromycin resistance gene from pMarA)	p3.5
<b>one part4 plasmid</b>		
pHLL214_NN2	barcoded part4 for Tn5 transposon vector	
<b>mix of 25 part5 plasmids</b>		
pHLL221	part5_Tn5 (glycerol-3-phosphate acyltransferase promoter from <i>Delftia</i> sp. GW456-R20)	Tn5_p5.1
pHLL224	part5_Tn5 (GFF4136;WP_086486180 promoter from <i>Sphingobium</i> sp. GW456-12-10-14-TSB1)	Tn5_p5.2
pHLL240	part5_Tn5 (xseB promoter from <i>Jonquetella anthropi</i> ADV 126, DSM 22815)	Tn5_p5.3
pHLL242	part5_Tn5 (dnaE promoter from <i>Prevotella multisaccharivorax</i> PPPA20, DSM 17128)	Tn5_p5.4
pHLL243	part5_Tn5 (kdsB promoter from <i>Prevotella ruminicola</i> 23)	Tn5_p5.5

pJW13	part5_Tn5 (transposase promoter from pRL27)	Tn5_p5.6
pJW23	part5_Tn5 (BT1311 promoter from <i>Bacteroides thetaiotaomicron</i> )	Tn5_p5.7
pJW24	part5_Tn5 (cspB promoter from <i>Corynebacterium glutamicum</i> )	Tn5_p5.8
pJW26	part5_Tn5 (DnaE promoter from <i>Collinsella stercoris</i> )	Tn5_p5.9
pJW27	part5_Tn5 (DnaB promoter from <i>Rhodospirillum rubrum</i> )	Tn5_p5.10
pJW32	part5_Tn5 (FolC promoter from <i>Parabacteroides distasonis</i> )	Tn5_p5.11
pJW33	part5_Tn5 (DapF promoter from <i>Ruminococcus gnavus</i> )	Tn5_p5.12
pJW34	part5_Tn5 (KdsB promoter from <i>Bradyrhizobium japonicum</i> )	Tn5_p5.13
pJW37	part5_Tn5 (FtsY promoter from <i>Bacteroides cellulosilyticus</i> )	Tn5_p5.14
pJW38	part5_Tn5 (KdsB promoter from <i>Leptotrichia goodfellowii</i> )	Tn5_p5.15
pJW39	part5_Tn5 (DapF promoter from <i>Leptospira interrogans</i> )	Tn5_p5.16
pJW40	part5_Tn5 (MurD promoter from <i>Planctomyces brasiliensis</i> )	Tn5_p5.17
pJW46	part5_Tn5 (FtsY promoter from <i>Cellulophaga lytica</i> )	Tn5_p5.18
pJW49	part5_Tn5 (IspF promoter from <i>Aquiflexum balticum</i> )	Tn5_p5.19
pJW50	part_Tn5 (KdsB promoter from <i>Pontibacter actiniarum</i> )	Tn5_p5.20
pJW71	part5_Tn5 (Lauroyl/myristoyl acyltransferase promoter from <i>Ralstonia</i> sp. UNC404CL21Col IMG taxon ID 2558309150)	Tn5_p5.21
pJW76	part5_Tn5 (Acyl carrier protein promoter from <i>Ralstonia</i> sp. UNC404CL21Col IMG taxon ID 2558309150)	Tn5_p5.22
pJW90	part5_Tn5 (dTDP-4-amino-4,6-dideoxygalactose transaminase promoter from <i>Echinicola vietnamensis</i> KMM 6221, DSM 17526)	Tn5_p5.23
pJW91	part5_Tn5 (Glycosyltransferase promoter from <i>Echinicola vietnamensis</i> )	Tn5_p5.24
pJW93	part5_Tn5 (Glycosyltransferase promoter from <i>Pontibacter actiniarum</i> )	Tn5_p5.25