

Table S2. The Tn5-kanamycin magic pool

Transposon vector	Part	Part plasmid	Description
pTGG21	part1	pHLL212	part1 for Tn5 transposon vector
pTGG21	part2	pJW9	part2 (tetA promoter from pKMW7)
pTGG21	part3	pJW19	part3 (KanR gene from pRL27; no BsmBI site)
pTGG21	part4	pHLL214_NN2	barcoded part4 for Tn5 transposon vector
pTGG21	part5	pJW13	part5_Tn5 (transposase promoter from pRL27)
pTGG22	part1	pHLL212	part1 for Tn5 transposon vector
pTGG22	part2	pJW9	part2 (tetA promoter from pKMW7)
pTGG22	part3	pJW19	part3 (KanR gene from pRL27; no BsmBI site)
pTGG22	part4	pHLL214_NN2	barcoded part4 for Tn5 transposon vector
pTGG22	part5	pHLL220	part5_Tn5 (ribD promoter from Delftia sp. GW456-R20)
pTGG23	part1	pHLL212	part1 for Tn5 transposon vector
pTGG23	part2	pJW9	part2 (tetA promoter from pKMW7)
pTGG23	part3	pJW19	part3 (KanR gene from pRL27; no BsmBI site)
pTGG23	part4	pHLL214_NN2	barcoded part4 for Tn5 transposon vector
pTGG23	part5	pHLL222	part5_Tn5 (dihydrofolate reductase promoter from Brevundimonas sp. GW460-12-10-14-LB2)
pTGG24	part1	pHLL212	part1 for Tn5 transposon vector
pTGG24	part2	pJW9	part2 (tetA promoter from pKMW7)
pTGG24	part3	pJW19	part3 (KanR gene from pRL27; no BsmBI site)
pTGG24	part4	pHLL214_NN2	barcoded part4 for Tn5 transposon vector
pTGG24	part5	pHLL224	part5_Tn5 (GFF4136;WP_086486180 promoter from Sphingobium sp. GW456-12-10-14-TSB1)

pTGG25	part1	pHLL212	part1 for Tn5 transposon vector
pTGG25	part2	pJW9	part2 (tetA promoter from pKMW7)
pTGG25	part3	pJW19	part3 (KanR gene from pRL27; no BsmBI site)
pTGG25	part4	pHLL214_NN2	barcoded part4 for Tn5 transposon vector
pTGG25	part5	pHLL226	part5_Tn5 (FIG007785 promoter from Rhodanobacter sp. FW104-10B01)
pTGG26	part1	pHLL212	part1 for Tn5 transposon vector
pTGG26	part2	pHLL218	part2 (ErmR promoter from pMarA)
pTGG26	part3	pJW19	part3 (KanR gene from pRL27; no BsmBI site)
pTGG26	part4	pHLL214_NN2	barcoded part4 for Tn5 transposon vector
pTGG26	part5	pJW13	part5_Tn5 (transposase promoter from pRL27)
pTGG27	part1	pHLL212	part1 for Tn5 transposon vector
pTGG27	part2	pHLL218	part2 (ErmR promoter from pMarA)
pTGG27	part3	pJW19	part3 (KanR gene from pRL27; no BsmBI site)
pTGG27	part4	pHLL214_NN2	barcoded part4 for Tn5 transposon vector
pTGG27	part5	pHLL220	part5_Tn5 (ribD promoter from Delftia sp. GW456-R20)
pTGG28	part1	pHLL212	part1 for Tn5 transposon vector
pTGG28	part2	pHLL218	part2 (ErmR promoter from pMarA)
pTGG28	part3	pJW19	part3 (KanR gene from pRL27; no BsmBI site)
pTGG28	part4	pHLL214_NN2	barcoded part4 for Tn5 transposon vector
pTGG28	part5	pHLL222	part5_Tn5 (dihydrofolate reductase promoter from Brevundimonas sp. GW460-12-10-14-LB2)
pTGG29	part1	pHLL212	part1 for Tn5 transposon vector
pTGG29	part2	pHLL218	part2 (ErmR promoter from pMarA)

pTGG29	part3	pJW19	part3 (KanR gene from pRL27; no BsmBI site)
pTGG29	part4	pHLL214_NN2	barcoded part4 for Tn5 transposon vector
pTGG29	part5	pHLL224	part5_Tn5 (GFF4136;WP_086486180 promoter from <i>Sphingobium</i> sp. GW456-12-10-14-TSB1)
pTGG30	part1	pHLL212	part1 for Tn5 transposon vector
pTGG30	part2	pHLL218	part2 (ErmR promoter from pMarA)
pTGG30	part3	pJW19	part3 (KanR gene from pRL27; no BsmBI site)
pTGG30	part4	pHLL214_NN2	barcoded part4 for Tn5 transposon vector
pTGG30	part5	pHLL226	part5_Tn5 (FIG007785 promoter from <i>Rhodanobacter</i> sp. FW104-10B01)