

Table S1 Sequence variants of pSAL8.3 and associated β-Galactosidase levels reported in Miller Units (MU).

Database # is included for plasmid requests. The start codon is shown in green and point mutations are shown in blue. To generate each variant, the 5' end of the β-Galactosidase coding region was amplified and cloned into KpnI/HindIII of pSAL8.3 using primers 5'-AATAGGTACC-[Seq]-TGCAGACTC-3' and 5'-CGACGGGATCGATCCCCC-3', where [Seq] is the designated sequence in the table.

Name	Sequence	LacZ levels (MU)		Database #
		0 mM	1 mM	
parent	-GGT--GATACCAGCATCGTCTTGATGCCCTTGGCAGC--ACC-AGCTGCAAAGACAACAAGATG	227	6876	pCS1301
m1	- AAT --GATACCAGCATCGTCTTGATGCCCTTGGCAGC-- ATT -AGCTGCAAAGACAACAAGATG	98	234	pCS1315
m2	- AGT --GATACCAGCATCGTCTTGATGCCCTTGGCAGC-- ACT -AGCTGCAAAGACAACAAGATG	87	2653	pCS1314
m3	-GGTC-GATACCAGCATCGTCTTGATGCCCTTGGCAGC-GACC-AGCTGCAAAGACAACAAGATG	1778	9199	pCS1326
m4	-GGTCCGATAACCAGCATCGTCTTGATGCCCTTGGCAGCGGACC-AGCTGCAAAGACAACAAGATG	6667	16380	pCS1327
mA	-GGT-- A TACCAGCA-CGTCTTGAT GACCTTA GCAGC--ACC-AGCTGCAAAGACAACAAGATG	170	188	pCS1326
mB	GGGT--GATACCAGCAT GAAGAGC ATGCCCTTGGCT CC --ACCCAGCTGCAAAGACAACAAGATG	13557	15796	pCS1325
empty	-GGT--GATA-----AGC--ACC-AGCTGCAAAGACAACAAGATG	15980	17661	pCS1324