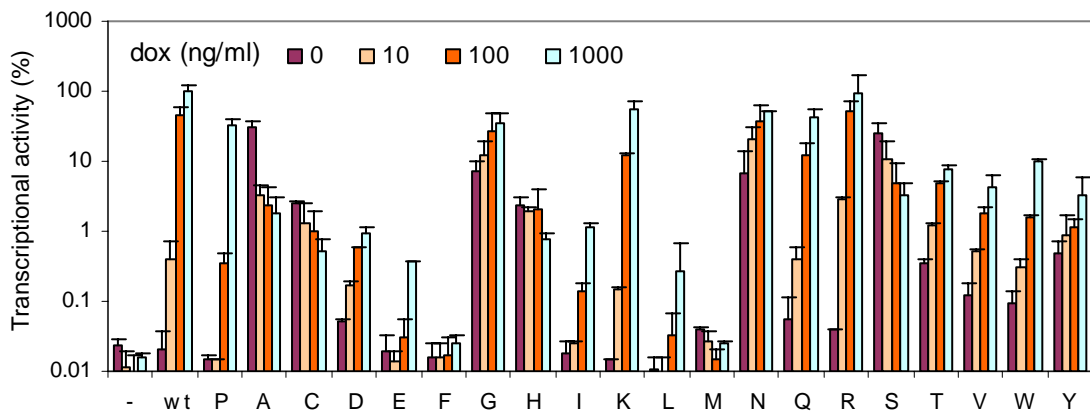


A

rtTA_{G19F E37L} variants with all possible amino acids at position 56

B

rtTA position 56 codon

First position	Second position								Third position
	U		C		A		G		
U	Phe	F	Ser	S	Tyr	Y	Cys	C	U
	Phe	F	Ser	S	Tyr	Y	Cys	C	C
	Leu	L	Ser	S	stop		stop		A
	Leu	L	Ser	S	stop		Trp	W	G
C	Leu	L	Pro	P	His	H	Arg	R	U
	Leu	L	Pro	P	His	H	Arg	R	C
	Leu	L	Pro	P	Gln	Q	Arg	R	A
	Leu	L	Pro	P	Gln	Q	Arg	R	G
A	Ile	I	Thr	T	Asn	N	Ser	S	U
	Ile	I	Thr	T	Asn	N	Ser	S	C
	Ile	I	Thr	T	Lys	K	Arg	R	A
	Met	M	Thr	T	Lys	K	Arg	R	G
G	Val	V	Ala	A	Asp	D	Gly	G	U
	Val	V	Ala	A	Asp	D	Gly	G	C
	Val	V	Ala	A	Glu	E	Gly	G	A
	Val	V	Ala	A	Glu	E	Gly	G	G