

Table S1. *mutS* gene mutations in CF *P. aeruginosa* with strong increased spontaneous frequency of mutation (SISf).

Isolate No	Patient Id	<i>mutS</i> gene position	Mutation type	Nucleotide change	Amino acid change
223 PA	1	195	base substitution	g>c	R>P
		264	base substitution	c>t	T>I
434 PA	2	117	base substitution	a>g	N>S
		141	base substitution	a>g	H>R
		288	base substitution	t>g	V>G
		294	base substitution	g>c	R>X
559 PA	3	117	base substitution	a>g	N>S
		141	base substitution	a>g	H>R
608 PA	3	195	base substitution	g>c	R>P
		264	base substitution	c>t	T>I
646 PA	4	117	base substitution	a>g	N>S
		141	base substitution	a>g	H>R
52 RJ	5	2343	base substitution	g>a, c>t	A>T
93 RJ	6	768	base substitution	g>c	R>P
95 RJ	6	768	base substitution	g>c	R>P

PA: patient from Cystic Fibrosis Reference Center in Porto Alegre, RJ: patient from Cystic Fibrosis Reference Center in Rio de Janeiro, a: adenine c: cytosine, g: guanine, t: thymine, A: Alanine, G: Glutamine, H: Histidine, I: Isoleucine, N: Asparagine, P: Proline, R: Arginine, T: Threonine, V: Valine, X: Unspecified or unknown amino acid.