

**Table SI. The frequencies of 12 previously reported mutations in public databases**

Mutations	Frequency in leprosy	Frequency in control	1000G_EAS	ExAC_EAS	gnomAD_exome_EAS	gnomAD_genome_EAS
c.A12064T:p.K4022X	0.05207	0.03556	0.02	0.0193	0.019	0.016
c.7945delA:p.S2649Vfs*93	0.0005291	0.0005459	0.004	0.0035	0.002	0.0016
c.6834_6838del:p.S2279Tfs*39	0.002116	0.0005459		0.0002	0.0002	0.0006
c.G5383T:p.E1795X	0.001058	0.0005459		0.0001	0.0002	
c.C5368T:p.Q1790X	0.004762	0.0005459		0.0007	0.0006	0.0012
c.4771_4772del:p.G1591Ifs*3	0.0005291	0				
c.C3905A:p.S1302X	0.002116	0.003275		0.0013	0.0018	0.0019
c.3321delA:p.G1109Efs*12	0.02011	0.02838	0.0069	0.0095	0.0098	0.0148
c.3222_3225del:p.S1074Rfs*46	0.003175	0.001092		0.0015	0.0012	
c.2282_2285del:p.S761Cfs*35	0.0005291	0		0	0.0001	0
c.C1501T:p.R501X	0.0005291	0		0	5.80E-05	0
c.1248dupG:p.S417Vfs*1	0.0005291	0		0.0009	0.001	0.0012