

Table S4. Nucleotide polymorphisms in *trpA* for *C. trachomatis* clinical and reference ocular strains.

Lineage	Site of infection	Unique <i>trpA</i> strain variants	Year of isolation	Geography	No. of variants	Variant ID	Year of isolation	Geography	Changes to <i>trpA</i>	Length of <i>trpA</i> (bp)
Ocular	Ocular	A HAR13	1958	Egypt	9	A_SB002739, A_SB006930, A_SB008107, A_SB13112, A_SB13321	2013	Soloman Islands	529delC; frameshift	552
Ocular	Ocular	A_2497	2000	Tanzania	47	A_363, A_5291, A_7249, A_MH858, A_MH1364, A_MH2145, A_MH3234, A_MH2497, A_MH4510, A_MH5368, A_MH5786, A_MH6446, A_MH7205, A_MH8910, A_MH9922, A_MH10549, A_MH10648, A_MH10901, A_MH11715, A_MH11979, A_MH12023, A_MH13849, A_MH14553, A_MH15048, A_MH15741, A_MH16005, A_MH16170, A_MH16665, A_MH17127, A_MH18843, A_MH18876, A_MH19679, A_MH20933, A_MH20130, A_MH21571, A_MH23527, A_MH24519, A_MH24640, A_MH24673, A_MH25256, A_MH25883, A_MH27137, A_MH35739, A_MH_47300, A_MH53658, A_MH26862, A_MH19657	2000, 2001	Tanzania	117-118insGT; frameshift	138
Ocular	Ocular	A_D213	2001	Gambia	1	A_230	2001	Gambia	116A>G; nonsynonymous substitution	552
Ocular	Ocular	Ba Apache2	1960	USA	None	None	None	None	529delC; frameshift	552
Ocular	Ocular	B HAR36*	1969	Saudi Arabia	None	None	None	None	205G>T; early truncation	207
Ocular	Ocular	B_Jali16	1985	Gambia	None	None	None	None	121G>A; nonsynonymous substitution; 529delC; frameshift	552
Ocular	Ocular	B_Jali20	1985	Gambia	None	None	None	None	529delC; frameshift	552
Ocular	Ocular	B_M48	2007	Gambia	None	None	None	None	157G>A; synonymous substitution; 529delC; frameshift	552
Urogenital	Ocular	B_QH111L	2016	China	None	None	None	None	410-412insATT; 492-604del; frameshift & early truncation	498
Ocular	Ocular	B_TZ1A828	1998	Tanzania	None	None	None	None	None	759
Ocular	Ocular	C TW-3	1959	Taiwan	None	None	None	None	529delC; frameshift	552
Ocular	Ocular	C_UW10	1964	Canada	None	None	None	None	10C>A, 529delC; frameshift	552
Ocular	Ocular	Da TW448	1985	Taiwan	None	None	None	None	529delC; frameshift	552

Note: All ocular strains except for B_QH111L have the 410-412 deletion. Reference strains are highlighted in bold.

*Since *Ct* reference strain B_UW50T lacks *trpA* gene, B_HAR-36 is used as the reference strain for B genotype strains.