

SUPPLEMENTAL TABLE 1

Prevalence of the Y976F and F1076L polymorphisms in the *Plasmodium vivax* multidrug resistance 1 gene in worldwide isolates*

Location (date)	No. samples	Wild type YF	Single mutant YL	Single mutant FF	Double mutant FL	Genotyping method (reference)
Americas						
Brazil						
Acrelândia, Acre (2008–2011)	13	8	5	0	0	Ampifluor assay (this study)
Plcido de Castro, Acre (2008–2010)	58	44	13	0	1	Ampifluor assay (this study, 14)
Granada, Acre (2004–2006)	111	91	17	1	2	Ampifluor assay (14)
Remansinho, Amazonas (2009–2011)	46	46	0	0	0	Ampifluor assay (this study)
Porto Velho, Rondônia (1995)	8	2	5	0	1	Ampifluor assay (14)
Paragominas, Par (2004)	28	0	0	24	4	Sequencing (26)
Total	264	191 (72.3)	40 (15.1)	25 (9.5)	8 (3.0)	
French Guiana						
Unknown sites	4	4 (100)	0	0	0	Sequencing (13)
Honduras						
	37	29 (78.4)	1 (2.7)	3 (8.1)	4 (10.8)	Sequencing (24)
Africa						
Mauritania						
Nouakchott (2007–2009)	103	2 (1.9)	73 (70.9)	0	28 (27.2)	Sequencing (28)
Madagascar						
South (2006)	5	0	0	0	5	Sequencing (11)
West (2006)	53	0	1	0	52	Sequencing (11)
Central highlands (2006)	22	0	0	0	22	Sequencing (11)
Total	80	0	1 (1.2)	0	79 (98.7)	
Asia						
Azerbaijan						
Central region	4	0	4 (100)	0	0	Sequencing (13)
Turkey						
Southeastern region	3	0	3 (100)	0	0	Sequencing (13)
Sri Lanka						
Trincomalee (2007)	20	8 (40.0)	8 (40.0)	0	4 (20.0)	Amplifluor assay (14)
Cambodia						
Pursat (2008)	69	7 (10.1)	1 (1.4)	0	61 (88.4)	Amplifluor assay (14)
Vietnam						
Bao Loc (1995)	9	0	0	0	9 (100)	Amplifluor assay (14)
Myanmar						
Yangon (1999)	11	6	3	0	2	Sequencing (27)
Unknown sites	5	2	0	0	3	Sequencing (25)
Total	16	8 (50.0)	3 (18.7)	0	5 (31.2)	
Laos						
Unknown sites	5	0	5 (100)	0	0	Sequencing (25)
Thailand						
Mae Sod, Tak	9	4	1	0	4	Sequencing (13)
Mae Sod, Tak (2003–2006)	7	0	2	0	5	Sequencing (8)
Mae Sod, Tak (2008)	24	8	11	0	5	Sequencing (27)
Unknown sites, Tak	11	3	7	0	1	Sequencing (25)
Total	51	15 (29.4)	21 (41.2)	0	15 (29.4)	
Indonesia						
Alor, East Nusa Tenggara	3	1	0	0	2	Sequencing (13)
Timika, Papua (2003–2006)	24	0	1	0	23	Sequencing (8)
Total	27	1 (3.7)	1 (3.7)	0	25 (92.6)	
South Korea						
Unknown sites (2007–2009)	96	0	96 (100)	0	0	Sequencing (27)
Southeast Pacific region						
Papua New Guinea						
Simbu, East Sepik, and Madang (2004–2005)	94	57	0	37	0	Fluorescence resonance assay (9)
Unknown site (2008)	1	0	0	0	1	Sequencing (27)
Total	95	57 (60.0)	0	37 (38.9)	1 (1.0)	
Grand total	883	322 (36.5)	257 (29.1)	65 (7.4)	239 (27.1)	

*Values are no. (%).

SUPPLEMENTAL Table 2
Number of copies of the *Plasmodium vivax* multidrug resistance 1 gene in worldwide isolates*

Location (date)	No. samples	No. gene copies			Copy number estimation method (reference)
		1	2	3	
Americas					
Brazil					
Acrelândia, Acre (2008–2010)	10	10	0	0	Real-time PCR (this study)
Plcido de Castro, Acre (2008–2010)	54	53	1	0	Real-time PCR (this study)
Granada (2004–2006)	97	96	1	0	Real-time PCR (this study)
Remansinho (2008–2010)	54	0	0	0	Real-time PCR (this study)
Total	215	213 (99.1)	2 (0.9)	0	
Honduras					
Tegucigalpa, Juticalpa, Puerto Lempira, Trujullo, La Cerba (2004–2009)	63	62 (98.4)	1 (1.6)	0	Real-time PCR (24)
Africa					
Mauritania					
Nouakchott (2007–2009)	105	102 (97.1)	3 (2.9)	0	TaqMan assay (28)
Asia					
Myanmar					
Yangon (1999)	11	11	0	0	TaqMan assay (27)
Unknown sites	49	48	1	0	TaqMan assay (25)
Total	60	59 (98.3)	1 (1.7)	0	
Laos					
Unknown sites	50	48 (96.0)	2 (4.0)	0	TaqMan assay (25)
Thailand					
Mae Sod, Tak (2008)	27	25	2	0	TaqMan assay (27)
Unknown sites in Tak	66	60	6	0	TaqMan assay (25)
Unknown sites outside Tak	50	50	0	0	TaqMan assay (25)
Mae Sod, Tak (2003–2007)	71	56	13	2	Real-time PCR (16)
Total	214	191 (89.4)	21 (9.8)	2 (0.9)	
Indonesia					
Timika, Papua (2003–2007)	114	114 (100)	0	0	Real-time PCR (16)
South Korea					
Unknown sites	96	96 (100)	0	0	TaqMan assay (27)
Grand total	917	885 (96.5)	30 (3.3)	2 (0.2)	

* Values are no. (%). PCR = polymerase chain reaction.