Table S3. Reported observations of Class II and III G6PD variants from malaria endemic countries. Only MECs for which data were available are listed (n = 54 of 90 MECs).

The A- variant includes mostly variants carrying the 202 G→A and 376 A→G mutations; but also some diagnoses determined only from the 202 locus (in cases where only the 376A→G mutation was identified (G6PD A), the record was not included here as that mutation is from Class IV), as well as the 680 G→T/376 A→G and the 968 T→C/376 A→G variants.

Country	Number of occurrences	Class II variants	Class III variants
African MECs			
Angola	1		A- [1]
Benin	1		A- [2]
Burkina Faso	4		A- [3-5]
Cameroon	8		A- [6,7]
Cape Verde	1		A- [8]
Central African Republic	1		A- [9]
Comores	2	Mediterranean [10]	A- [10]
Congo	1		A- [11]
Côte d'Ivoire	4		A- [7,12,13]
DR Congo	1		A- [14]
Gabon	3		A- [7,15,16]
Ghana	7		A- [5,16-20]
Guinea	2		A- [21]
Kenya	6		A- [5,22-24]
Malawi	4		A- [25-27]
Mali	6		A- [5,7,28-30]
Mauritania	1		A- [7]
Mozambique	2		A- [31]
Namibia	6		A- [32,33]
Nigeria	21		A- [5,14,16,23,34-43] Ilesha [44]
Rwanda	1		A- [45]
Sao Tome and Principe	1		A- [46]
Senegal	7	Santamaria [47]	A- [7,47-51]
Sierra Leone	2		A- [52]
South Africa	2	Mediterranean [53]	A- [14,33]
Sudan	7	Mediterranean [54]	A- [54-59]
The Gambia	8	Santamaria [60]	A- [14,60-63]
Uganda	3		A- [64-66]
United Republic of Tanzania	6		A- [5,67-70]
American MECs			
Brazil	39	Amazonia [71] Ananindeau [71] Belem [71] Crispim [71] Chatham [72] Farroupilha [73]	A- [71-74,76-84] Bahia [78] Lages [73] Seattle [71,73,75,81] Seattle-like [76,85]

		Mediterranean [72-76] Santamaria [71]	
Costa Rica	3	Santamaria [86,87]	A- [86]
Ecuador	2		A- [88]
Guyana	1		A- [7]
Mexico	24	Santamaria [89] Union [89] Valladolid [90] Vanua Lava [89] Viangchan-Jammu [90]	A- [89,91-94] Mexico City [95] Seattle [89,94]
Panama	3	Mediterranean [96]	A- [96]

Eurasian MECs			
Cambodia	11	Canton [97] Kaiping [98] Valladolid [97] Viangchan-Jammu [97-99]	A- [100] Mahidol [97,101]
China	266	Canton [102-136] Chinese-1 [103,124,137] Coimbra [106,109,130,136-138] Fushan [109,121,139,140] Haikou [103] Hechi [109] Kaiping [103-110,112,113,115-119,121-127,129,132-136,138-144] Liuzhou [109] Miaoli [109,113,126,129,137] Nankang [103,124,126,145] Songklanagarind [109] Taipei [113,126,133,135,136] Taipei-Hakka [111] Union [106,124,126,127,132-134,136,146] Valladolid [122,124] Viangchan-Jammu [103,106,109,112,118,121-125,127,133,134] Gaohe/Kaiping [106,124]	A- [109,117] Chinese-5 [104-106,109,113,118,122-127,129,132-136] Gaohe [103-106,108-110,112,113,115,117,118,121-124,126,127,129,131-136,143,144] Guangzhou [106,117] Keelung [137] Mahidol [106,113,122,124,126,127,129,133,135,136,147] Mahidol-like [117] Nanning [109] Quing Yan [103,104,106,109,113,117,122-124,126,127,129,133-136,148] Ube Konan [144]
India	66	Chatham [149] Coimbra [150-153] Mediterranean [149,152-156] Namouru [150,151,153] Nilgiri [150,151]	Kalyan-Kerala [149-153,156-159]; Orissa [149,152-154,156,160,161]
Indonesia	76	Canton [162-167] Chatham [162,165,166,168-171] Coimbra [162,168,169,171] Kaiping [162,164-166,168-172] Mediterranean [163,171] Surabaya [162] Union [165,166] Vanua Lava [162,165,166,168-171,173] Viangchan-Jammu [165-169,171,174]	Bajo Maumere [168] Chinese-5 [168] Gaohe [162] Mahidol [163]
Iran	29	Canton [175,176] Chatham [175-182] Cosenza [177,178,181,182]	A- [175,176]

		Mediterranean [155,175-186]	
Iraq	11	Chatham [187,188] Mediterranean [187-191]	A- [188,189]
Lao PDR	1	Viangchan-Jammu [162]	
Malaysia	61	Andalus [192] Canton [192-200] Chatham [192,196,199] Coimbra [192,198-200] Kaiping [192,194,195,197-200] Mediterranean [192,198-200] Namouru [198] Nankang [196] Union [192,196] Vanua Lava [192,199] Viangchan-Jammu [192,194-196,198-200]	Chinese-5 [194-197] Gaohe [194-198,200] Mahidol [192,196,198-200] Orissa [192,199] Quing Yan [195,196]
Myanmar	27	Canton [162,201] Coimbra [201,202] Viangchan-Jammu [202] Kaiping [202] Mediterranean [202] Union [162,201] Valladolid [202]	Kerala-Kalyan [202] Mahidol [162,201-203]`
Nepal	1	Mediterranean [204]	
Pakistan	9	Chatham [205] Mediterranean [155,205-208]	Orissa [205]
Papua New Guinea	16	Viangchan-Jammu [209] Kaiping [210] Mediterranean-like [211,212] Union [210] Union-like [211,212] Vanua Lava [209]	
Philippines	2	Union [213,214]	
Saudi Arabia	81	Aures [215-218] Chatham [216-218] Kaiping [218] Mediterranean [191,215-230] Mediterranean-like [221-226] S. Antioco [216] Union [216] Viangchan [216]	A- [216,218,220-224,226-228,231] Kerala-Kalyan [218] Sibari [230]
Solomon Islands	1	Union [232]	
Thailand	45	Canton [233-237] Kaiping [233-239] Mediterranean [233] Songklanagarind [233] Union [233-237] Vanua Lava [240] Viangchan-Jammu [233,234,237-239]	Chinese-5 [234] Gaohe [233,237,238] Kerala-Kalyan [238] Mahidol [233-239,241,242] Quing Yan [233]
Turkey	7	Chatham [243,244] Mediterranean [243,245-247]	A- [243]
Vanuatu	4	Namouru [248] Naone [248] Union [248] Vanua Lava [248]	

Viet Nam	19	Bao Loc [249] Canton [249-251] Coimbra [252] Kaiping [249] Union [249] Viangchan-Jammu [249,252]	Chinese-5 [252] Gaohe [249,252] Mahidol [250] Quing Yan [249]

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