

**S4 Table. The main *pfgch1* amplifications with the most frequent *pfdhfr/pfdhps* genotypes in Africa and Asia (%)**

Duplication	N	Genotypes *	Number of genotypes	West Africa	Central Africa	East Africa	Southern Africa	Horn of Africa	Southeast Asia
A	3	NCSIS-ISAKAA	3	-	-	-	-	-	<b>100</b>
B	2	<b>IRNIS-ISGEAA</b>	2	-	-	-	-	<b>100</b>	-
C	5	<b>IRNIS-ISGKAA</b>	2	-	-	-	-	-	<b>40</b>
D	2	<b>IRNLS-IFGKAA</b>	3	-	-	<b>60</b>	-	-	-
		<b>IRNIS-ISGKGA</b>	2	-	-	-	<b>100</b>	-	-
		<b>IRNIS-ISGEGA</b>	20	-	-	-	-	-	6.9
E	289	<b>IRNIS-IAGEAA</b>	36	-	-	-	-	-	<b>12.5</b>
		<b>IRNLS-ISGNGA</b>	16	-	-	-	-	-	5.5
		<b>IRNLS-ISGEGA</b>	124	-	-	-	-	-	<b>42.9</b>
		<b>IRNLS-IAGEAA</b>	45	-	-	-	-	-	<b>15.6</b>
		<b>NRNIS-IAGEAA</b>	7	-	-	-	-	-	6.9
F *	101	<b>IRNIS-ISGEGA</b>	10	-	-	-	-	-	9.9
		<b>IRNLS-ISGEGA</b>	49	-	-	-	-	-	<b>48.5</b>
		<b>IRNLS-IAGEAA</b>	11	-	-	-	-	-	<b>10.9</b>
		<b>IRNIS-ISGKAA</b>	5	4.4	-	-	-	-	2.9
G **	68	<b>IRNLS-ISGNGA</b>	16	-	-	-	-	-	<b>23.5</b>
		<b>IRNLS-ISGEGA</b>	13	-	-	-	-	-	<b>19.1</b>
		<b>IRNLS-IFGEAS</b>	17	-	-	-	-	-	<b>25.0</b>
H ***	20	<b>IRNIS-ISGKAA</b>	10	<b>15.0</b>	<b>35.0</b>	-	-	-	-
		<b>IRNIS-VAGKAA</b>	2	-	<b>10.0</b>	-	-	-	-
		<b>IRNIS-VAGKGS</b>	3	<b>10.0</b>	5.0	-	-	-	-
I +	347	<b>IRNIS-ISGKAA</b>	43	7.8	4.6	-	-	-	-
		<b>IRNIS-ISGEAA</b>	214	-	-	<b>23.1</b>	<b>38.6</b>	-	-
		<b>IRNIS-ISGEGA</b>	30	-	0.3	8.1	0.3	-	-
I ++	207	<b>IRNIS-ISGKAA</b>	46	8.2	<b>14.0</b>	-	-	-	-
		<b>IRNIS-ISGEAA</b>	88	0.5	-	<b>12.6</b>	<b>29.5</b>	-	-
		<b>IRNIS-ISGEGA</b>	18	-	0.5	8.2	-	-	-
		<b>IRNIS-IACKAA</b>	18	7.2	1.4	-	-	-	-
I +++	125	<b>NCSIS-ISGKAA</b>	8	6.4	-	-	-	-	-
		<b>IRNIS-ISGKAA</b>	39	<b>30.4</b>	0.8	-	-	-	-
		<b>IRNIS-IAAKAA</b>	7	5.6	-	-	-	-	-
		<b>IRNIS-IAGKAA</b>	32	<b>24.8</b>	0.8	-	-	-	-
		<b>IRNIS-IAGKAS</b>	9	7.2	-	-	-	-	-

\* GB4, T996; \*\* KH02; \*\*\* NF54; + KE01; ++ KE01/ML01; +++ ML01; gDupA - H are gene amplifications; pDupI (3 types) and pDupJ are promoter amplifications; \* based on *pfdhfr* (N51I, C59R, S108N, I164L and I306F) and *pfdhps* (I431V, S436A, A437G, K540E/K540N, A581G and A613S); frequencies of at least 10% are bolded