

***P. falciparum* sample information for Miotto *et al.*, *Multiple populations of artemisinin-resistant Plasmodium falciparum in Cambodia*, Nature Genetics, 2013.**

### **Terms and conditions of use**

This document lists ENA accession numbers, country of origin, and name and contact of contributing investigators for the samples included in Miotto *et al.*, *Multiple populations of artemisinin-resistant Plasmodium falciparum in Cambodia*, Nature Genetics, 2013 (DOI: [10.1038/ng.2624](https://doi.org/10.1038/ng.2624)).

The samples and data used in this publication form part of the MalariaGEN *Plasmodium falciparum* Community Project (<http://www.malariagen.net/projects/parasite/pf>), which is building a catalogue of variants and allele frequencies as part of its goal to characterise common forms of genetic variation in *Plasmodium falciparum*. It is expected that the Project will have many scientific and translational applications, including its ultimate goal to foster the uses of parasite sequencing and genotyping to guide malaria control and elimination strategies.

This will involve sequencing thousands of parasite isolates contributed by independent research groups working in malaria endemic countries from around the world, and developing statistical and computational methods that allow the most common and important forms of variation to be reliably and cost-effectively determined in large numbers of sequenced samples. *Plasmodium falciparum* has a number of unusual and complex genomic features – e.g. highly repetitive regions, exceptionally variable regions and genetically mixed infections – that make this a particularly interesting and challenging analytical problem.

The data used in Miotto *et al.*, Nature Genetics, 2013 (DOI: [10.1038/ng.2624](https://doi.org/10.1038/ng.2624)), were generated by the Project to investigate a number of scientific questions that go beyond the scope of this particular publication. Similarly, many of the investigators and groups who contributed samples used in this publication have planned independent analyses of their datasets that have not yet been completed or reported. The contributing investigators have agreed to release the sequence data and country of origin of these samples in the expectation that other researchers will find this useful and will respect the data-sharing principles outlined below.

Guided by the principles of the Fort Lauderdale Agreement, ([www.genome.gov/Pages/Research/WellcomeReport0303.pdf](http://www.genome.gov/Pages/Research/WellcomeReport0303.pdf)), other researchers are encouraged to use these data in their own work, but are expected to allow the Project and its contributing investigators to make the first presentations and publications reporting on their intended scientific analyses. The terms for data use are set out below, and are based on those established by the human 1000 Genomes Project ([www.1000genomes.org](http://www.1000genomes.org)). Usage of any data contained in this document implies your acceptance of these terms and conditions.

## **== Use of the Project data, presentations and publications, and authorship ==**

### **\* Global analyses of Project data**

The Project and its contributing investigators plan to publish global analyses of: sequence data and quality; SNPs and structural variants; haplotypes and LD patterns; population genetic phenomena such as population comparisons, mutation and recombination rates, signals of selection and demographic analyses; functional annotations; and analyses of regions of general interest such as *var* genes and genes implicated in drug resistance. Since the data is derived from blood samples of infected individuals in a natural setting, some samples will include mixed infections of *P. falciparum* with other Plasmodium species, and this will form part of the Project analysis.

Talks, posters, and papers on all such analyses are to be published first by approved presenters on behalf of the Project. When these planned analyses have been published by the Project, then other researchers are free to present and publish using the Project data.

Groups within the Project may make presentations and publish papers on more extensive analyses of specific topics coincident with the main Project analysis presentations and publications.

### **\*Local analyses of Project data**

In many cases contributing investigators intend to perform analyses beyond those described above using the genomic data from their samples. External researchers who wish to investigate patterns of variation at particular study sites are respectfully asked to contact the relevant contributing groups to discuss their intentions and, if appropriate, to identify opportunities for collaboration. This should be done via the contacts named in the accompanying list of studies and samples.

### **\* Methods development using Project data**

Researchers who have used small amounts of Project data ( $\leq$  one chromosome) may present methods development posters, talks, and papers that include these data prior to the main Project publications, without needing Project approval or authorship. The Project should be acknowledged and cited using the format given below. Methods presentations or papers on global analyses or analyses using large amounts of Project data would be similar to large-scale analyses of Project data: researchers within the Project may make presentations or submit papers at the same time as the main Project presentations and papers, and others could do so after the Project publishes on the global analyses.

### **\*Candidate region studies using Project data**

Researchers may present and publish on use of Project data in specific chromosome regions (that are not of general interest) or as summaries (such as the total number of variants) without Project approval, prior to the main Project publications. The Project should be acknowledged and cited using the format given below.

### **\* Population comparisons using Project data**

Researchers may use Project data as controls or additional information for comparisons with their samples from other populations, prior to the main Project publications, as long as the analyses that the Project plans to do are not included. The Project should be acknowledged and cited using the format given below.

### **\* Acknowledging and citing the source of the data**

Publications using these data should acknowledge and cite the source of the data using the following format: "This publication uses data from the MalariaGEN Community Project on Plasmodium

falciparum population genomics as described in Miotto *et al*, Nature Genetics, 2013 (DOI: 10.1038/ng.2624)."

**\* Uses of the data to study other organisms**

The sequence read data may only be used for Plasmodium genome analysis. It is prohibited to attempt to recover information about humans or other organisms.

**== Queries ==**

Researchers who have questions about whether they may make presentations or submit papers using Project data may contact Bronwyn MacInnis ([bm2@sanger.ac.uk](mailto:bm2@sanger.ac.uk)) or Olivo Miotto ([olivo@tropmedres.ac](mailto:olivo@tropmedres.ac)).

**== Project Updates ==**

The MalariaGEN *Plasmodium falciparum* Community Project is an active collaboration. For the latest information on Project developments, analyses and publications, visit the Project page (<http://www.malariagen.net/projects/parasite/pf>).

**The data**

The following tables provide provenance metadata for the 825 samples used in Miotto *et al.*, Nature Genetics, 2013 (DOI: [10.1038/ng.2624](https://doi.org/10.1038/ng.2624)).

Table 1 gives information about partner studies that contributed samples to this dataset. The columns show: (1) the identifier of the partner study; (2) the name and affiliation; and (3) the email address of the contact person who represents the group who conducted the partner study.

Table 2 gives information about samples. The columns show: (1) sample number; (2) the accession number(s) for the sequencing reads data relevant to the sample, stored at the European Nucleotide Archive (ENA); (3) the country of origin of the sample; (4) the identifier of the partner study that contributed the sample.

Read sequences can be downloaded from

<http://www.ebi.ac.uk/ena/data/search/?query=plasmodium> using the accession numbers provided. Some samples have multiple accession numbers, each referring to a dataset generated by a separate sequencing experiment on the sample.

*Updated: 23 September 2013*

**Table 1 – Partner studies that contributed samples used in this study**

<b>Study Code</b>	<b>Contact</b>	<b>Email</b>
<b>1001</b>	<b>Abdoulaye Djimde</b> University of Science, Techniques and Technologies of Bamako, Mali	adjimde@icermali.org
<b>1004</b>	<b>Jean Bosco Ouedraogo</b> Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso	jbouedraogo.irssbobo@fasonet.bf
<b>1006</b>	<b>Alfred Amambua-Ngwa</b> MRC Laboratories, Banjul, The Gambia	angwa@mrc.gm
<b>1010</b>	<b>Timothy J.C. Anderson</b> Southwest Foundation for Biomedical Research, San Antonio, TX, USA	tanderso@sfbgenetics.org
<b>1011</b>	<b>Xin-zhuan Su</b> National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA	xsu@niaid.nih.gov
<b>1012</b>	<b>Nick White</b> Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand	nickwdt@tropmedres.ac
<b>1017</b>	<b>Lucas Amenga-Etego</b> Navrongo Health Research Centre, Navrongo, Ghana	lucas@well.ox.ac.uk
<b>1020</b>	<b>Christiane Dolecek</b> Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam	cdolecek@oucru.org
<b>1031</b>	<b>Chris Plowe</b> Howard Hughes Medical Institute and University of Maryland, Baltimore, MD, USA	cplowe@medicine.umaryland.edu
<b>1044</b>	<b>Rick Fairhurst</b> National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA	rfairhurst@niaid.nih.gov

**Table 2 – Samples used in this study**

<b>Num</b>	<b>ENA Accession</b>	<b>Origin</b>	<b>Study Code</b>
1	ERS010434	Burkina Faso	1004
2	ERS010432	Burkina Faso	1004
3	ERS010446	Burkina Faso	1004
4	ERS010061	Burkina Faso	1004
5	ERS010449	Burkina Faso	1004
6	ERS010442	Burkina Faso	1004
7	ERS010208	Burkina Faso	1004
8	ERS010060	Burkina Faso	1004
9	ERS010440	Burkina Faso	1004
10	ERS010441	Burkina Faso	1004
11	ERS010206	Burkina Faso	1004
12	ERS010439, ERS010611	Burkina Faso	1004
13	ERS010447	Burkina Faso	1004
14	ERS010204	Burkina Faso	1004
15	ERS010209	Burkina Faso	1004
16	ERS010603, ERS010450	Burkina Faso	1004
17	ERS010616	Burkina Faso	1004
18	ERS010205	Burkina Faso	1004
19	ERS010443	Burkina Faso	1004
20	ERS010210	Burkina Faso	1004
21	ERS010448	Burkina Faso	1004
22	ERS010636, ERS010201	Burkina Faso	1004
23	ERS010445	Burkina Faso	1004
24	ERS010433	Burkina Faso	1004
25	ERS010202	Burkina Faso	1004
26	ERS010200	Burkina Faso	1004
27	ERS010444	Burkina Faso	1004
28	ERS010188	Burkina Faso	1004
29	ERS010203	Burkina Faso	1004
30	ERS010186	Burkina Faso	1004
31	ERS010207	Burkina Faso	1004
32	ERS010617	Burkina Faso	1004
33	ERS010189	Burkina Faso	1004
34	ERS010618	Burkina Faso	1004
35	ERS010187	Burkina Faso	1004
36	ERS010173	Burkina Faso	1004
37	ERS010174	Burkina Faso	1004
38	ERS010175	Burkina Faso	1004
39	ERS010176	Burkina Faso	1004
40	ERS010177	Burkina Faso	1004

<b>Num</b>	<b>ENA Accession</b>	<b>Origin</b>	<b>Study Code</b>
41	ERS010577, ERS010178, ERS010574	Burkina Faso	1004
42	ERS010627, ERS010630, ERS010681, ERS010683, ERS010628, ERS010179, ERS010629, ERS014193	Burkina Faso	1004
43	ERS010633, ERS010632, ERS010180, ERS010631	Burkina Faso	1004
44	ERS010575, ERS010578, ERS010181	Burkina Faso	1004
45	ERS010182	Burkina Faso	1004
46	ERS010183	Burkina Faso	1004
47	ERS010619	Burkina Faso	1004
48	ERS010576, ERS010579, ERS014189	Burkina Faso	1004
49	ERS010054, ERS010669	Cambodia (Pailin)	1031
50	ERS010670, ERS010672	Cambodia (Pailin)	1031
51	ERS010673, ERS010671	Cambodia (Pailin)	1031
52	ERS010776	Cambodia (Pailin)	1031
53	ERS024123	Cambodia (Pailin)	1031
54	ERS009744	Cambodia (Pailin)	1031
55	ERS009745	Cambodia (Pailin)	1031
56	ERS009740	Cambodia (Pailin)	1031
57	ERS010778	Cambodia (Pailin)	1031
58	ERS017560	Cambodia (Pailin)	1031
59	ERS010155	Cambodia (Pailin)	1031
60	ERS017561	Cambodia (Pailin)	1031
61	ERS010156	Cambodia (Pailin)	1031
62	ERS017562	Cambodia (Pailin)	1031
63	ERS010779	Cambodia (Pailin)	1031
64	ERS024124	Cambodia (Pailin)	1031
65	ERS024125	Cambodia (Pailin)	1031
66	ERS024126	Cambodia (Pailin)	1031
67	ERS024127	Cambodia (Pailin)	1031
68	ERS024128	Cambodia (Pailin)	1031
69	ERS024130	Cambodia (Pailin)	1031
70	ERS024133	Cambodia (Pailin)	1031
71	ERS024135	Cambodia (Pailin)	1031
72	ERS024136	Cambodia (Pailin)	1031
73	ERS010786	Cambodia (Pailin)	1031
74	ERS010788	Cambodia (Pailin)	1031
75	ERS010782	Cambodia (Pailin)	1031
76	ERS032151	Cambodia (Pailin)	1031
77	ERS032008	Cambodia (Pailin)	1031
78	ERS032025	Cambodia (Pailin)	1031
79	ERS032093	Cambodia (Pailin)	1031
80	ERS032109	Cambodia (Pailin)	1031
81	ERS032135	Cambodia (Pailin)	1031

<b>Num</b>	<b>ENA Accession</b>	<b>Origin</b>	<b>Study Code</b>
82	ERS032148	Cambodia (Pailin)	1031
83	ERS032146	Cambodia (Pailin)	1031
84	ERS032137	Cambodia (Pailin)	1031
85	ERS032057	Cambodia (Pailin)	1031
86	ERS032091	Cambodia (Pailin)	1031
87	ERS032077	Cambodia (Pailin)	1031
88	ERS032058	Cambodia (Pailin)	1031
89	ERS032637	Cambodia (Pailin)	1031
90	ERS032071	Cambodia (Pailin)	1031
91	ERS032136	Cambodia (Pailin)	1031
92	ERS032052	Cambodia (Pailin)	1031
93	ERS032082	Cambodia (Pailin)	1031
94	ERS031999	Cambodia (Pailin)	1031
95	ERS013843, ERS017412, ERS017414, ERS010216, ERS010516, ERS010213	Cambodia (Pailin)	1012
96	ERS010517, ERS010217, ERS010214, ERS013844	Cambodia (Pailin)	1012
97	ERS010511	Cambodia (Pailin)	1012
98	ERS010318	Cambodia (Pursat)	1011
99	ERS010319	Cambodia (Pursat)	1011
100	ERS010320	Cambodia (Pursat)	1011
101	ERS010321	Cambodia (Pursat)	1011
102	ERS010322	Cambodia (Pursat)	1011
103	ERS010323	Cambodia (Pursat)	1011
104	ERS010324	Cambodia (Pursat)	1011
105	ERS010325	Cambodia (Pursat)	1011
106	ERS010326	Cambodia (Pursat)	1011
107	ERS010327	Cambodia (Pursat)	1011
108	ERS010328	Cambodia (Pursat)	1011
109	ERS010329, ERS010346	Cambodia (Pursat)	1011
110	ERS010330	Cambodia (Pursat)	1011
111	ERS010331	Cambodia (Pursat)	1011
112	ERS010332	Cambodia (Pursat)	1011
113	ERS010333	Cambodia (Pursat)	1011
114	ERS010334	Cambodia (Pursat)	1011
115	ERS010335	Cambodia (Pursat)	1011
116	ERS010336	Cambodia (Pursat)	1011
117	ERS010337	Cambodia (Pursat)	1011
118	ERS010598	Cambodia (Pursat)	1011
119	ERS010490	Cambodia (Pursat)	1011
120	ERS010491	Cambodia (Pursat)	1011
121	ERS010590	Cambodia (Pursat)	1011
122	ERS010591	Cambodia (Pursat)	1011

<b>Num</b>	<b>ENA Accession</b>	<b>Origin</b>	<b>Study Code</b>
123	ERS010592	Cambodia (Pursat)	1011
124	ERS010503	Cambodia (Pursat)	1011
125	ERS028720	Cambodia (Pursat)	1044
126	ERS028721	Cambodia (Pursat)	1044
127	ERS010066	Cambodia (Pursat)	1044
128	ERS010059	Cambodia (Pursat)	1044
129	ERS010064	Cambodia (Pursat)	1044
130	ERS010063	Cambodia (Pursat)	1044
131	ERS010062	Cambodia (Pursat)	1044
132	ERS010058	Cambodia (Pursat)	1044
133	ERS010067	Cambodia (Pursat)	1044
134	ERS010057	Cambodia (Pursat)	1044
135	ERS009720	Cambodia (Pursat)	1044
136	ERS009721	Cambodia (Pursat)	1044
137	ERS014165	Cambodia (Pursat)	1044
138	ERS014166	Cambodia (Pursat)	1044
139	ERS014167	Cambodia (Pursat)	1044
140	ERS014168	Cambodia (Pursat)	1044
141	ERS014169	Cambodia (Pursat)	1044
142	ERS014170	Cambodia (Pursat)	1044
143	ERS014171	Cambodia (Pursat)	1044
144	ERS014172	Cambodia (Pursat)	1044
145	ERS014154	Cambodia (Pursat)	1044
146	ERS014173	Cambodia (Pursat)	1044
147	ERS014155	Cambodia (Pursat)	1044
148	ERS014156	Cambodia (Pursat)	1044
149	ERS014157	Cambodia (Pursat)	1044
150	ERS014158	Cambodia (Pursat)	1044
151	ERS014159	Cambodia (Pursat)	1044
152	ERS014161	Cambodia (Pursat)	1044
153	ERS014162	Cambodia (Pursat)	1044
154	ERS014163	Cambodia (Pursat)	1044
155	ERS014164	Cambodia (Pursat)	1044
156	ERS017705	Cambodia (Pursat)	1044
157	ERS017698	Cambodia (Pursat)	1044
158	ERS017699	Cambodia (Pursat)	1044
159	ERS017706	Cambodia (Pursat)	1044
160	ERS017700	Cambodia (Pursat)	1044
161	ERS017707	Cambodia (Pursat)	1044
162	ERS017702	Cambodia (Pursat)	1044
163	ERS023736	Cambodia (Pursat)	1044
164	ERS023737	Cambodia (Pursat)	1044



<b>Num</b>	<b>ENA Accession</b>	<b>Origin</b>	<b>Study Code</b>
165	ERS023741	Cambodia (Pursat)	1044
166	ERS023742	Cambodia (Pursat)	1044
167	ERS023743	Cambodia (Pursat)	1044
168	ERS023744	Cambodia (Pursat)	1044
169	ERS023745	Cambodia (Pursat)	1044
170	ERS023746	Cambodia (Pursat)	1044
171	ERS023747	Cambodia (Pursat)	1044
172	ERS023748	Cambodia (Pursat)	1044
173	ERS023749	Cambodia (Pursat)	1044
174	ERS023750	Cambodia (Pursat)	1044
175	ERS032060	Cambodia (Pursat)	1044
176	ERS032042	Cambodia (Pursat)	1044
177	ERS032258	Cambodia (Pursat)	1044
178	ERS032029	Cambodia (Pursat)	1044
179	ERS032249	Cambodia (Pursat)	1044
180	ERS032246	Cambodia (Pursat)	1044
181	ERS032683	Cambodia (Pursat)	1044
182	ERS025100	Cambodia (Pursat)	1044
183	ERS032018	Cambodia (Pursat)	1044
184	ERS032026	Cambodia (Pursat)	1044
185	ERS032243	Cambodia (Pursat)	1044
186	ERS032686	Cambodia (Pursat)	1044
187	ERS032255	Cambodia (Pursat)	1044
188	ERS032050	Cambodia (Pursat)	1044
189	ERS032014	Cambodia (Pursat)	1044
190	ERS032037	Cambodia (Pursat)	1044
191	ERS032687	Cambodia (Pursat)	1044
192	ERS025262	Cambodia (Pursat)	1044
193	ERS025263	Cambodia (Pursat)	1044
194	ERS025265	Cambodia (Pursat)	1044
195	ERS025266	Cambodia (Pursat)	1044
196	ERS025257	Cambodia (Pursat)	1044
197	ERS025267	Cambodia (Pursat)	1044
198	ERS025268	Cambodia (Pursat)	1044
199	ERS025269	Cambodia (Pursat)	1044
200	ERS025258	Cambodia (Pursat)	1044
201	ERS025271	Cambodia (Pursat)	1044
202	ERS025259	Cambodia (Pursat)	1044
203	ERS025272	Cambodia (Pursat)	1044
204	ERS025273	Cambodia (Pursat)	1044
205	ERS025274	Cambodia (Pursat)	1044
206	ERS025275	Cambodia (Pursat)	1044

<b>Num</b>	<b>ENA Accession</b>	<b>Origin</b>	<b>Study Code</b>
207	ERS025276	Cambodia (Pursat)	1044
208	ERS028696	Cambodia (Pursat)	1044
209	ERS028697	Cambodia (Pursat)	1044
210	ERS028698	Cambodia (Pursat)	1044
211	ERS028699	Cambodia (Pursat)	1044
212	ERS032688	Cambodia (Pursat)	1044
213	ERS032689	Cambodia (Pursat)	1044
214	ERS032690	Cambodia (Pursat)	1044
215	ERS028700	Cambodia (Pursat)	1044
216	ERS028701	Cambodia (Pursat)	1044
217	ERS028702	Cambodia (Pursat)	1044
218	ERS028703	Cambodia (Pursat)	1044
219	ERS032691	Cambodia (Pursat)	1044
220	ERS032692	Cambodia (Pursat)	1044
221	ERS028704	Cambodia (Pursat)	1044
222	ERS032693	Cambodia (Pursat)	1044
223	ERS028705	Cambodia (Pursat)	1044
224	ERS032694	Cambodia (Pursat)	1044
225	ERS028706	Cambodia (Pursat)	1044
226	ERS028707	Cambodia (Pursat)	1044
227	ERS028708	Cambodia (Pursat)	1044
228	ERS028709	Cambodia (Pursat)	1044
229	ERS032695	Cambodia (Pursat)	1044
230	ERS028710	Cambodia (Pursat)	1044
231	ERS028712	Cambodia (Pursat)	1044
232	ERS028713	Cambodia (Pursat)	1044
233	ERS032696	Cambodia (Pursat)	1044
234	ERS028714	Cambodia (Pursat)	1044
235	ERS028715	Cambodia (Pursat)	1044
236	ERS028716	Cambodia (Pursat)	1044
237	ERS032697	Cambodia (Pursat)	1044
238	ERS028717	Cambodia (Pursat)	1044
239	ERS028718	Cambodia (Pursat)	1044
240	ERS028719	Cambodia (Pursat)	1044
241	ERS028722	Cambodia (Pursat)	1044
242	ERS028723	Cambodia (Pursat)	1044
243	ERS028724	Cambodia (Pursat)	1044
244	ERS028725	Cambodia (Pursat)	1044
245	ERS017693	Cambodia (Ratanakiri)	1044
246	ERS017695	Cambodia (Ratanakiri)	1044
247	ERS017696	Cambodia (Ratanakiri)	1044
248	ERS017697	Cambodia (Ratanakiri)	1044

<b>Num</b>	<b>ENA Accession</b>	<b>Origin</b>	<b>Study Code</b>
249	ERS025277	Cambodia (Ratanakiri)	1044
250	ERS025278	Cambodia (Ratanakiri)	1044
251	ERS025279	Cambodia (Ratanakiri)	1044
252	ERS025280	Cambodia (Ratanakiri)	1044
253	ERS025281	Cambodia (Ratanakiri)	1044
254	ERS025260	Cambodia (Ratanakiri)	1044
255	ERS025282	Cambodia (Ratanakiri)	1044
256	ERS025283	Cambodia (Ratanakiri)	1044
257	ERS025284	Cambodia (Ratanakiri)	1044
258	ERS025285	Cambodia (Ratanakiri)	1044
259	ERS025286	Cambodia (Ratanakiri)	1044
260	ERS025287	Cambodia (Ratanakiri)	1044
261	ERS025288	Cambodia (Ratanakiri)	1044
262	ERS025289	Cambodia (Ratanakiri)	1044
263	ERS025290	Cambodia (Ratanakiri)	1044
264	ERS025291	Cambodia (Ratanakiri)	1044
265	ERS025376	Cambodia (Ratanakiri)	1044
266	ERS025377	Cambodia (Ratanakiri)	1044
267	ERS025378	Cambodia (Ratanakiri)	1044
268	ERS025379	Cambodia (Ratanakiri)	1044
269	ERS025380	Cambodia (Ratanakiri)	1044
270	ERS025381	Cambodia (Ratanakiri)	1044
271	ERS025382	Cambodia (Ratanakiri)	1044
272	ERS025383	Cambodia (Ratanakiri)	1044
273	ERS025384	Cambodia (Ratanakiri)	1044
274	ERS025385	Cambodia (Ratanakiri)	1044
275	ERS025386	Cambodia (Ratanakiri)	1044
276	ERS025387	Cambodia (Ratanakiri)	1044
277	ERS025388	Cambodia (Ratanakiri)	1044
278	ERS025389	Cambodia (Ratanakiri)	1044
279	ERS025390	Cambodia (Ratanakiri)	1044
280	ERS025391	Cambodia (Ratanakiri)	1044
281	ERS025392	Cambodia (Ratanakiri)	1044
282	ERS025393	Cambodia (Ratanakiri)	1044
283	ERS025394	Cambodia (Ratanakiri)	1044
284	ERS025395	Cambodia (Ratanakiri)	1044
285	ERS025396	Cambodia (Ratanakiri)	1044
286	ERS025397	Cambodia (Ratanakiri)	1044
287	ERS025398	Cambodia (Ratanakiri)	1044
288	ERS025399	Cambodia (Ratanakiri)	1044
289	ERS025400	Cambodia (Ratanakiri)	1044
290	ERS025261	Cambodia (Ratanakiri)	1044

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291	ERS025401	Cambodia (Ratanakiri)	1044
292	ERS025402	Cambodia (Ratanakiri)	1044
293	ERS025403	Cambodia (Ratanakiri)	1044
294	ERS025404	Cambodia (Ratanakiri)	1044
295	ERS024137	Cambodia (Tasanh)	1031
296	ERS024138	Cambodia (Tasanh)	1031
297	ERS024139	Cambodia (Tasanh)	1031
298	ERS024140	Cambodia (Tasanh)	1031
299	ERS024141	Cambodia (Tasanh)	1031
300	ERS024142	Cambodia (Tasanh)	1031
301	ERS024143	Cambodia (Tasanh)	1031
302	ERS024144	Cambodia (Tasanh)	1031
303	ERS024145	Cambodia (Tasanh)	1031
304	ERS024146	Cambodia (Tasanh)	1031
305	ERS024147	Cambodia (Tasanh)	1031
306	ERS024148	Cambodia (Tasanh)	1031
307	ERS024149	Cambodia (Tasanh)	1031
308	ERS024150	Cambodia (Tasanh)	1031
309	ERS024151	Cambodia (Tasanh)	1031
310	ERS024152	Cambodia (Tasanh)	1031
311	ERS010789	Cambodia (Tasanh)	1031
312	ERS010790	Cambodia (Tasanh)	1031
313	ERS032104	Cambodia (Tasanh)	1031
314	ERS032108	Cambodia (Tasanh)	1031
315	ERS032111	Cambodia (Tasanh)	1031
316	ERS032090	Cambodia (Tasanh)	1031
317	ERS032110	Cambodia (Tasanh)	1031
318	ERS032106	Cambodia (Tasanh)	1031
319	ERS032102	Cambodia (Tasanh)	1031
320	ERS032117	Cambodia (Tasanh)	1031
321	ERS032123	Cambodia (Tasanh)	1031
322	ERS032073	Cambodia (Tasanh)	1031
323	ERS032100	Cambodia (Tasanh)	1031
324	ERS032086	Cambodia (Tasanh)	1031
325	ERS032119	Cambodia (Tasanh)	1031
326	ERS032129	Cambodia (Tasanh)	1031
327	ERS032103	Cambodia (Tasanh)	1031
328	ERS032003	Cambodia (Tasanh)	1031
329	ERS032039	Cambodia (Tasanh)	1031
330	ERS032638	Cambodia (Tasanh)	1031
331	ERS032031	Cambodia (Tasanh)	1031
332	ERS032015	Cambodia (Tasanh)	1031

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333	ERS032005	Cambodia (Tasanh)	1031
334	ERS032022	Cambodia (Tasanh)	1031
335	ERS032017	Cambodia (Tasanh)	1031
336	ERS032056	Cambodia (Tasanh)	1031
337	ERS032009	Cambodia (Tasanh)	1031
338	ERS032639	Cambodia (Tasanh)	1031
339	ERS032010	Cambodia (Tasanh)	1031
340	ERS032640	Cambodia (Tasanh)	1031
341	ERS032069	Cambodia (Tasanh)	1031
342	ERS010116	Gambia	1006
343	ERS010126	Gambia	1006
344	ERS010043	Gambia	1006
345	ERS010127	Gambia	1006
346	ERS010044	Gambia	1006
347	ERS010045	Gambia	1006
348	ERS010128	Gambia	1006
349	ERS010046	Gambia	1006
350	ERS010047	Gambia	1006
351	ERS010048	Gambia	1006
352	ERS010129	Gambia	1006
353	ERS011006	Gambia	1006
354	ERS010049	Gambia	1006
355	ERS010038	Gambia	1006
356	ERS009726	Gambia	1006
357	ERS010130	Gambia	1006
358	ERS010117	Gambia	1006
359	ERS010039	Gambia	1006
360	ERS010040	Gambia	1006
361	ERS010041	Gambia	1006
362	ERS009729	Gambia	1006
363	ERS009966	Gambia	1006
364	ERS010118	Gambia	1006
365	ERS010119	Gambia	1006
366	ERS010120	Gambia	1006
367	ERS009731	Gambia	1006
368	ERS009732	Gambia	1006
369	ERS009733	Gambia	1006
370	ERS010113	Gambia	1006
371	ERS010071	Gambia	1006
372	ERS009669	Gambia	1006
373	ERS011004	Gambia	1006
374	ERS010070	Gambia	1006

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375	ERS009967	Gambia	1006
376	ERS011013	Gambia	1006
377	ERS011002	Gambia	1006
378	ERS011016	Gambia	1006
379	ERS009674	Gambia	1006
380	ERS009670	Gambia	1006
381	ERS011012	Gambia	1006
382	ERS010079	Gambia	1006
383	ERS009679	Gambia	1006
384	ERS011019	Gambia	1006
385	ERS009970	Gambia	1006
386	ERS009971	Gambia	1006
387	ERS010078	Gambia	1006
388	ERS010076	Gambia	1006
389	ERS010069	Gambia	1006
390	ERS010074	Gambia	1006
391	ERS011014	Gambia	1006
392	ERS011008	Gambia	1006
393	ERS009676	Gambia	1006
394	ERS009972	Gambia	1006
395	ERS009672	Gambia	1006
396	ERS011011	Gambia	1006
397	ERS011010	Gambia	1006
398	ERS009973	Gambia	1006
399	ERS010068	Gambia	1006
400	ERS010077	Gambia	1006
401	ERS011005	Gambia	1006
402	ERS009974	Gambia	1006
403	ERS011018	Gambia	1006
404	ERS010080	Gambia	1006
405	ERS011020	Gambia	1006
406	ERS009975	Gambia	1006
407	ERS009673	Gambia	1006
408	ERS011015	Gambia	1006
409	ERS010122	Ghana	1017
410	ERS010582	Ghana	1017
411	ERS010583	Ghana	1017
412	ERS010584	Ghana	1017
413	ERS010115	Ghana	1017
414	ERS010585	Ghana	1017
415	ERS009734	Ghana	1017
416	ERS009727	Ghana	1017

<b>Num</b>	<b>ENA Accession</b>	<b>Origin</b>	<b>Study Code</b>
417	ERS010586	Ghana	1017
418	ERS010588	Ghana	1017
419	ERS010123	Ghana	1017
420	ERS010089	Ghana	1017
421	ERS010084	Ghana	1017
422	ERS010124	Ghana	1017
423	ERS010073	Ghana	1017
424	ERS022939, ERS010108	Ghana	1017
425	ERS009728	Ghana	1017
426	ERS022941, ERS010081	Ghana	1017
427	ERS010125	Ghana	1017
428	ERS009723, ERS022942	Ghana	1017
429	ERS022943, ERS010090	Ghana	1017
430	ERS010087, ERS022944	Ghana	1017
431	ERS009730	Ghana	1017
432	ERS022945, ERS010088	Ghana	1017
433	ERS013091	Ghana	1017
434	ERS022946, ERS013063	Ghana	1017
435	ERS022947, ERS010086	Ghana	1017
436	ERS009725	Ghana	1017
437	ERS010072	Ghana	1017
438	ERS010085	Ghana	1017
439	ERS009681	Ghana	1017
440	ERS009724	Ghana	1017
441	ERS010083	Ghana	1017
442	ERS013064	Ghana	1017
443	ERS013065	Ghana	1017
444	ERS011021	Ghana	1017
445	ERS013092	Ghana	1017
446	ERS013066	Ghana	1017
447	ERS013093	Ghana	1017
448	ERS013067	Ghana	1017
449	ERS013068	Ghana	1017
450	ERS013094	Ghana	1017
451	ERS011022	Ghana	1017
452	ERS013069	Ghana	1017
453	ERS013070	Ghana	1017
454	ERS013071	Ghana	1017
455	ERS013072	Ghana	1017
456	ERS013073	Ghana	1017
457	ERS013095	Ghana	1017
458	ERS011023	Ghana	1017

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459	ERS011024	Ghana	1017
460	ERS013074	Ghana	1017
461	ERS013075	Ghana	1017
462	ERS013076	Ghana	1017
463	ERS011025	Ghana	1017
464	ERS013096	Ghana	1017
465	ERS013077	Ghana	1017
466	ERS013078	Ghana	1017
467	ERS013079	Ghana	1017
468	ERS013080	Ghana	1017
469	ERS013097	Ghana	1017
470	ERS013081	Ghana	1017
471	ERS013098	Ghana	1017
472	ERS013099	Ghana	1017
473	ERS013100	Ghana	1017
474	ERS011026	Ghana	1017
475	ERS013101	Ghana	1017
476	ERS013082	Ghana	1017
477	ERS011027	Ghana	1017
478	ERS022948	Ghana	1017
479	ERS022949	Ghana	1017
480	ERS017387	Ghana	1017
481	ERS032206	Ghana	1017
482	ERS022744	Ghana	1017
483	ERS017388	Ghana	1017
484	ERS022745	Ghana	1017
485	ERS022746	Ghana	1017
486	ERS022950	Ghana	1017
487	ERS022747	Ghana	1017
488	ERS022951	Ghana	1017
489	ERS017384	Ghana	1017
490	ERS017389	Ghana	1017
491	ERS022748	Ghana	1017
492	ERS032197	Ghana	1017
493	ERS022952	Ghana	1017
494	ERS022953	Ghana	1017
495	ERS022749	Ghana	1017
496	ERS022954	Ghana	1017
497	ERS032203	Ghana	1017
498	ERS017385	Ghana	1017
499	ERS032194	Ghana	1017
500	ERS022750	Ghana	1017



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501	ERS032239	Ghana	1017
502	ERS022955	Ghana	1017
503	ERS022956	Ghana	1017
504	ERS022751	Ghana	1017
505	ERS022957	Ghana	1017
506	ERS022958	Ghana	1017
507	ERS022959	Ghana	1017
508	ERS022753	Ghana	1017
509	ERS017390	Ghana	1017
510	ERS022960	Ghana	1017
511	ERS017391	Ghana	1017
512	ERS017392	Ghana	1017
513	ERS022961	Ghana	1017
514	ERS022962	Ghana	1017
515	ERS022963	Ghana	1017
516	ERS032226	Ghana	1017
517	ERS022754	Ghana	1017
518	ERS022964	Ghana	1017
519	ERS017393	Ghana	1017
520	ERS022755	Ghana	1017
521	ERS017394	Ghana	1017
522	ERS017395	Ghana	1017
523	ERS017386	Ghana	1017
524	ERS022965	Ghana	1017
525	ERS022966	Ghana	1017
526	ERS032236	Ghana	1017
527	ERS022756	Ghana	1017
528	ERS022967	Ghana	1017
529	ERS032002	Ghana	1017
530	ERS022968	Ghana	1017
531	ERS022757	Ghana	1017
532	ERS022758	Ghana	1017
533	ERS022760	Ghana	1017
534	ERS022761	Ghana	1017
535	ERS022969	Ghana	1017
536	ERS022762	Ghana	1017
537	ERS022970	Ghana	1017
538	ERS022763	Ghana	1017
539	ERS032179	Ghana	1017
540	ERS022971	Ghana	1017
541	ERS022764	Ghana	1017
542	ERS017396	Ghana	1017

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543	ERS022765	Ghana	1017
544	ERS022766	Ghana	1017
545	ERS022972	Ghana	1017
546	ERS017397	Ghana	1017
547	ERS017398	Ghana	1017
548	ERS022973	Ghana	1017
549	ERS032208	Ghana	1017
550	ERS022974	Ghana	1017
551	ERS017399	Ghana	1017
552	ERS022768	Ghana	1017
553	ERS022975	Ghana	1017
554	ERS022976	Ghana	1017
555	ERS022770	Ghana	1017
556	ERS022771	Ghana	1017
557	ERS022773	Ghana	1017
558	ERS017400	Ghana	1017
559	ERS022977	Ghana	1017
560	ERS022978	Ghana	1017
561	ERS022979	Ghana	1017
562	ERS022980	Ghana	1017
563	ERS022981	Ghana	1017
564	ERS022982	Ghana	1017
565	ERS022983	Ghana	1017
566	ERS022984	Ghana	1017
567	ERS022985	Ghana	1017
568	ERS017401	Ghana	1017
569	ERS022986	Ghana	1017
570	ERS017402	Ghana	1017
571	ERS017403	Ghana	1017
572	ERS022774	Ghana	1017
573	ERS032187	Ghana	1017
574	ERS032201	Ghana	1017
575	ERS032227	Ghana	1017
576	ERS032667	Ghana	1017
577	ERS032668	Ghana	1017
578	ERS032054	Ghana	1017
579	ERS032238	Ghana	1017
580	ERS032177	Ghana	1017
581	ERS032216	Ghana	1017
582	ERS032192	Ghana	1017
583	ERS032030	Ghana	1017
584	ERS032053	Ghana	1017

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585	ERS031997	Ghana	1017
586	ERS032230	Ghana	1017
587	ERS032180	Ghana	1017
588	ERS032182	Ghana	1017
589	ERS032176	Ghana	1017
590	ERS032231	Ghana	1017
591	ERS032185	Ghana	1017
592	ERS032033	Ghana	1017
593	ERS032214	Ghana	1017
594	ERS032234	Ghana	1017
595	ERS032223	Ghana	1017
596	ERS032218	Ghana	1017
597	ERS032191	Ghana	1017
598	ERS032213	Ghana	1017
599	ERS032229	Ghana	1017
600	ERS032222	Ghana	1017
601	ERS032034	Ghana	1017
602	ERS032011	Ghana	1017
603	ERS032038	Ghana	1017
604	ERS032186	Ghana	1017
605	ERS032051	Ghana	1017
606	ERS032178	Ghana	1017
607	ERS032001	Ghana	1017
608	ERS032032	Ghana	1017
609	ERS032669	Ghana	1017
610	ERS032028	Ghana	1017
611	ERS032183	Ghana	1017
612	ERS032190	Ghana	1017
613	ERS032184	Ghana	1017
614	ERS031998	Ghana	1017
615	ERS032188	Ghana	1017
616	ERS032200	Ghana	1017
617	ERS032204	Ghana	1017
618	ERS032174	Ghana	1017
619	ERS032212	Ghana	1017
620	ERS032670	Ghana	1017
621	ERS032170	Ghana	1017
622	ERS032215	Ghana	1017
623	ERS032044	Ghana	1017
624	ERS032048	Ghana	1017
625	ERS032220	Ghana	1017
626	ERS032233	Ghana	1017

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627	ERS032210	Ghana	1017
628	ERS032007	Ghana	1017
629	ERS032047	Ghana	1017
630	ERS032173	Ghana	1017
631	ERS032172	Ghana	1017
632	ERS032671	Ghana	1017
633	ERS032199	Ghana	1017
634	ERS032196	Ghana	1017
635	ERS032012	Ghana	1017
636	ERS032181	Ghana	1017
637	ERS032205	Ghana	1017
638	ERS032046	Ghana	1017
639	ERS032672	Ghana	1017
640	ERS032189	Ghana	1017
641	ERS032195	Ghana	1017
642	ERS032673	Ghana	1017
643	ERS032219	Ghana	1017
644	ERS032221	Ghana	1017
645	ERS032674	Ghana	1017
646	ERS032202	Ghana	1017
647	ERS032675	Ghana	1017
648	ERS032067	Ghana	1017
649	ERS032171	Ghana	1017
650	ERS032232	Ghana	1017
651	ERS032035	Ghana	1017
652	ERS010381, ERS010382	Mali	1001
653	ERS010384, ERS010383	Mali	1001
654	ERS010385, ERS010386	Mali	1001
655	ERS010612	Mali	1001
656	ERS010388, ERS010387	Mali	1001
657	ERS010607, ERS010304, ERS010510	Mali	1001
658	ERS010302, ERS010417	Mali	1001
659	ERS010303, ERS010418	Mali	1001
660	ERS010306, ERS010419	Mali	1001
661	ERS010305	Mali	1001
662	ERS010185	Mali	1001
663	ERS010613	Mali	1001
664	ERS010563	Mali	1001
665	ERS010614	Mali	1001
666	ERS010390, ERS010389	Mali	1001
667	ERS010391, ERS010392	Mali	1001

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668	ERS010615	Mali	1001
669	ERS010394, ERS010393	Mali	1001
670	ERS010566	Mali	1001
671	ERS010567	Mali	1001
672	ERS010609, ERS010568	Mali	1001
673	ERS010396, ERS010395	Mali	1001
674	ERS010397, ERS010398	Mali	1001
675	ERS010307	Mali	1001
676	ERS010399, ERS010400	Mali	1001
677	ERS010184	Mali	1001
678	ERS010021	Mali	1001
679	ERS010651	Mali	1001
680	ERS010037	Mali	1001
681	ERS010661	Mali	1001
682	ERS010662	Mali	1001
683	ERS010663	Mali	1001
684	ERS010026	Mali	1001
685	ERS010027	Mali	1001
686	ERS010028	Mali	1001
687	ERS010029	Mali	1001
688	ERS010030	Mali	1001
689	ERS010664	Mali	1001
690	ERS010665	Mali	1001
691	ERS010031	Mali	1001
692	ERS010666	Mali	1001
693	ERS010667	Mali	1001
694	ERS010652	Mali	1001
695	ERS010653	Mali	1001
696	ERS010654	Mali	1001
697	ERS010032	Mali	1001
698	ERS010033	Mali	1001
699	ERS010022	Mali	1001
700	ERS010023	Mali	1001
701	ERS010655	Mali	1001
702	ERS010024	Mali	1001
703	ERS010656	Mali	1001
704	ERS010025	Mali	1001
705	ERS010657	Mali	1001
706	ERS010658	Mali	1001
707	ERS010659	Mali	1001
708	ERS010783	Thailand	1031
709	ERS010784	Thailand	1031

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710	ERS010601, ERS010477	Thailand	1010
711	ERS010602, ERS010478	Thailand	1010
712	ERS010604, ERS010479	Thailand	1010
713	ERS010480, ERS010605	Thailand	1010
714	ERS010481, ERS010606	Thailand	1010
715	ERS009968	Thailand	1010
716	ERS010635, ERS010483	Thailand	1010
717	ERS010484	Thailand	1010
718	ERS010608, ERS010529, ERS010648	Thailand	1010
719	ERS010527	Thailand	1010
720	ERS010554	Thailand	1010
721	ERS010555	Thailand	1010
722	ERS010556	Thailand	1010
723	ERS010521	Thailand	1010
724	ERS010531	Thailand	1010
725	ERS010558	Thailand	1010
726	ERS010530	Thailand	1010
727	ERS010560	Thailand	1010
728	ERS010535	Thailand	1010
729	ERS010561	Thailand	1010
730	ERS010532	Thailand	1010
731	ERS010570	Thailand	1010
732	ERS010519	Thailand	1010
733	ERS010600, ERS010534, ERS010649	Thailand	1010
734	ERS010524	Thailand	1010
735	ERS010523	Thailand	1010
736	ERS010525	Thailand	1010
737	ERS010522, ERS010650	Thailand	1010
738	ERS010551	Thailand	1010
739	ERS010526	Thailand	1010
740	ERS010553	Thailand	1010
741	ERS010528	Thailand	1010
742	ERS010515	Thailand	1010
743	ERS010514	Thailand	1010
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745	ERS009957	Thailand	1010
746	ERS009969	Thailand	1010
747	ERS009705	Thailand	1010
748	ERS009958	Thailand	1010
749	ERS009959	Thailand	1010
750	ERS009715	Thailand	1010
751	ERS009960	Thailand	1010

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753	ERS009716	Thailand	1010
754	ERS009983	Thailand	1010
755	ERS009717	Thailand	1010
756	ERS009961	Thailand	1010
757	ERS009718	Thailand	1010
758	ERS009706	Thailand	1010
759	ERS009962	Thailand	1010
760	ERS009707	Thailand	1010
761	ERS009963	Thailand	1010
762	ERS009708	Thailand	1010
763	ERS009709	Thailand	1010
764	ERS009964	Thailand	1010
765	ERS009710	Thailand	1010
766	ERS009711	Thailand	1010
767	ERS010141	Thailand	1010
768	ERS009713	Thailand	1010
769	ERS009714	Thailand	1010
770	ERS015539	Thailand	1010
771	ERS015528	Thailand	1010
772	ERS015529	Thailand	1010
773	ERS023567	Thailand	1010
774	ERS015531	Thailand	1010
775	ERS015532	Thailand	1010
776	ERS015533	Thailand	1010
777	ERS015534	Thailand	1010
778	ERS015536	Thailand	1010
779	ERS015537	Thailand	1010
780	ERS015538	Thailand	1010
781	ERS017464	Thailand	1010
782	ERS017465	Thailand	1010
783	ERS017467	Thailand	1010
784	ERS017466	Thailand	1010
785	ERS017468	Thailand	1010
786	ERS017469	Thailand	1010
787	ERS017470	Thailand	1010
788	ERS017471	Thailand	1010
789	ERS017472	Thailand	1010
790	ERS023566	Thailand	1010
791	ERS023569	Thailand	1010
792	ERS023570	Thailand	1010
793	ERS023574	Thailand	1010

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794	ERS023575	Thailand	1010
795	ERS023576	Thailand	1010
796	ERS010314	Thailand	1010
797	ERS010309	Thailand	1010
798	ERS010349, ERS010350	Thailand	1010
799	ERS010310	Thailand	1010
800	ERS010352, ERS010351	Thailand	1010
801	ERS010339, ERS010340, ERS010338, ERS010341	Thailand	1010
802	ERS010342, ERS010343, ERS010344, ERS010345	Thailand	1010
803	ERS010308	Thailand	1010
804	ERS009722	Thailand	1010
805	ERS010311	Thailand	1010
806	ERS010312	Thailand	1010
807	ERS010354, ERS010353	Thailand	1010
808	ERS010362, ERS010361	Thailand	1010
809	ERS010357, ERS010358	Thailand	1010
810	ERS010364, ERS010363	Thailand	1010
811	ERS010359, ERS010625, ERS010626, ERS010360	Thailand	1010
812	ERS010356, ERS014194, ERS010624, ERS010623, ERS010355, ERS010622, ERS010634	Thailand	1010
813	ERS010190	Thailand	1010
814	ERS003020, ERS010034	Vietnam	1020
815	ERS003022, ERS010036	Vietnam	1020
816	ERS003021, ERS010035	Vietnam	1020
817	ERS013102	Vietnam	1020
818	ERS013103	Vietnam	1020
819	ERS013083	Vietnam	1020
820	ERS013084	Vietnam	1020
821	ERS013085	Vietnam	1020
822	ERS013086	Vietnam	1020
823	ERS013087	Vietnam	1020
824	ERS013088	Vietnam	1020
825	ERS013089	Vietnam	1020



