

Supplementary Table 4. Partitioning scheme for molecular and combined analyses.

Subset	Best Model	Number of Sites	Partition Names
1	GTR+G	54	uce_1001_left
2	GTR+G	357	uce_338_core, uce_1001_core
3	GTR+G	67	uce_1001_right
4	GTR+G	167	uce_1007_left
5	GTR+G	232	uce_1007_core
6	GTR+I+G	115	uce_1007_right
7	GTR+G	159	uce_1017_left
8	GTR+G	154	uce_1017_core
9	GTR+G	74	uce_1017_right
10	GTR+G	333	uce_1018_left
11	GTR+G	156	uce_1018_core
12	GTR+I+G	135	uce_1018_right
13	GTR+I+G	378	uce_787_core, uce_1020_all
14	GTR	61	uce_1027_left
15	GTR+G	907	uce_660_core, uce_1027_core, uce_1334_core
16	GTR+G	133	uce_1027_right
17	GTR+I+G	741	uce_391_core, uce_103_left, uce_990_right, uce_567_core
18	GTR+G	191	uce_103_core
19	GTR+G	209	uce_103_right
20	GTR+G	181	uce_1036_left
21	GTR+I+G	141	uce_1036_core
22	GTR+G	424	uce_1036_right, uce_64_right
23	GTR+G	172	uce_1040_left, uce_1277_left
24	GTR+I+G	675	uce_605_core, uce_1040_core, uce_167_core, uce_642_left
25	GTR+G	180	uce_1040_right
26	GTR+I+G	67	uce_1042_left
27	GTR+I+G	1105	uce_1042_core, uce_987_left, uce_57_core
28	GTR+G	497	uce_836_left, uce_1042_right, uce_682_left, uce_57_left
29	GTR+G	66	uce_1044_left
30	GTR+I+G	77	uce_1044_core
31	GTR+G	267	uce_356_right, uce_597_left, uce_1044_right
32	GTR	123	uce_1046_left
33	GTR+I+G	754	uce_1046_core, uce_191_core, uce_320_core
34	GTR+G	394	uce_858_left, uce_1046_right
35	GTR+G	52	uce_1053_left
36	GTR+I+G	501	uce_1296_left, uce_1053_core, uce_113_core
37	GTR+G	59	uce_1053_right
38	GTR+G	464	uce_1054_left, uce_622_right, uce_540_right

39	GTR	191	uce_1054_core
40	GTR+G	52	uce_1054_right
41	GTR+G	106	uce_1056_left
42	GTR+I+G	384	uce_1056_core
43	GTR+G	167	uce_1056_right
44	GTR+G	77	uce_106_left
45	GTR+G	51	uce_106_core
46	GTR+G	159	uce_106_right
47	GTR+G	122	uce_1061_left
48	GTR+G	334	uce_1061_core, uce_249_core
49	GTR+G	118	uce_1061_right
50	GTR+G	795	uce_332_left, uce_981_left, uce_335_core, uce_1062_left
51	GTR+G	452	uce_1062_core
52	GTR+G	50	uce_1062_right
53	GTR+G	140	uce_1064_left
54	GTR+G	177	uce_1064_core
55	GTR+I+G	790	uce_289_right, uce_1064_right
56	GTR	95	uce_1069_left
57	GTR+G	201	uce_1069_core
58	GTR+G	369	uce_1069_right
59	GTR+G	251	uce_1071_left, uce_697_right
60	GTR+G	337	uce_574_core, uce_1071_core
61	GTR+G	196	uce_1071_right
62	GTR+I+G	724	uce_1075_left, uce_527_core
63	GTR+G	223	uce_525_right, uce_1075_core
64	GTR+G	50	uce_1075_right
65	GTR+I+G	860	uce_1229_core, uce_1080_left, uce_997_left, uce_84_core
66	GTR	62	uce_1080_core
67	GTR	71	uce_1080_right
68	GTR+G	65	uce_1087_left
69	GTR+I+G	1195	uce_161_core, uce_353_core, uce_1087_core, uce_411_core, uce_609_core, uce_1338_core
70	GTR+G	284	uce_1087_right
71	GTR+G	52	uce_109_left
72	GTR+G	56	uce_109_core
73	GTR+G	247	uce_109_right, uce_181_right
74	GTR+G	60	uce_1097_left
75	GTR	106	uce_1097_core
76	GTR+I+G	399	uce_1097_right
77	GTR+G	151	uce_1106_left
78	GTR+G	1497	uce_496_core, uce_1106_core, uce_420_core, uce_351_core, uce_1204_core, uce_1316_core
79	GTR+G	79	uce_1106_right
80	GTR+G	55	uce_1108_left
81	GTR+I+G	647	uce_1256_core, uce_1108_core,

			uce_966_core, uce_47_core
82	GTR+G	117	uce_1108_right
83	GTR+I+G	89	uce_1110_left
84	GTR+G	153	uce_1110_core
85	GTR+G	50	uce_1110_right
86	GTR+G	695	uce_459_right, uce_220_core, uce_1119_left
87	GTR+G	642	uce_552_core, uce_1119_core, uce_547_core, uce_449_core
88	GTR+G	180	uce_1119_right
89	GTR+G	127	uce_113_left, uce_161_right
90	GTR+G	82	uce_113_right
91	GTR+G	52	uce_1133_left
92	GTR+G	568	uce_1133_core, uce_682_core
93	GTR+G	77	uce_1133_right
94	GTR+G	188	uce_302_right, uce_1139_left
95	GTR+G	217	uce_1139_core
96	GTR+G	247	uce_660_left, uce_1139_right
97	GTR+G	88	uce_115_left
98	GTR+I+G	131	uce_115_core
99	GTR+G	183	uce_883_right, uce_115_right, uce_525_left
100	GTR+G	491	uce_1154_left, uce_1260_right
101	GTR+G	100	uce_1154_core
102	GTR+G	50	uce_1154_right
103	GTR+G	50	uce_116_left
104	GTR+G	195	uce_116_core
105	GTR+G	174	uce_116_right
106	GTR+G	51	uce_1160_left
107	GTR+G	125	uce_1160_core
108	GTR+G	51	uce_1160_right
109	GTR	71	uce_1168_left
110	GTR	322	uce_1168_core, uce_758_core, uce_604_left
111	GTR+G	81	uce_1168_right
112	GTR+G	167	uce_1169_left, uce_1305_left
113	GTR+G	50	uce_1169_core
114	GTR+G	65	uce_1169_right
115	GTR+G	138	uce_1173_left
116	GTR+I+G	566	uce_693_core, uce_1173_core, uce_166_core
117	GTR+I+G	80	uce_1173_right
118	GTR	72	uce_1175_left
119	GTR	81	uce_1175_core
120	GTR+G	403	uce_1175_right
121	GTR+G	211	uce_118_left
122	GTR+I+G	2308	uce_118_core, uce_408_core, uce_910_right, uce_692_core, uce_204_core, uce_901_core,
			uce_503_core, uce_460_core, uce_377_core

123	GTR+G	262	uce_374_right, uce_118_right
124	GTR	92	uce_1184_left
125	GTR+G	507	uce_1184_core
126	GTR+G	95	uce_1184_right
127	GTR+G	55	uce_1186_left
128	GTR+G	152	uce_1186_core
129	GTR+G	226	uce_1186_right
130	GTR+G	75	uce_1191_left
131	GTR+I+G	163	uce_1191_core
132	GTR+G	51	uce_1191_right
133	GTR+I+G	1414	uce_1219_core, uce_666_core, uce_63_core, uce_858_core, uce_1192_left
134	GTR+I+G	204	uce_1192_core
135	GTR+G	529	uce_564_core, uce_1192_right
136	GTR+G	69	uce_120_left
137	GTR+I+G	1068	uce_31_right, uce_1281_core, uce_990_core, uce_331_core, uce_120_core
138	GTR+G	178	uce_120_right
139	GTR+G	324	uce_520_left, uce_1204_left
140	GTR+G	545	uce_358_left, uce_1204_right
141	GTR+G	174	uce_1219_left
142	GTR+I+G	215	uce_1219_right
143	GTR	62	uce_122_left
144	GTR+I+G	791	uce_122_core, uce_98_core
145	GTR+G	69	uce_122_right
146	GTR+G	547	uce_1224_left, uce_620_left, uce_446_left
147	GTR+I+G	74	uce_1224_core
148	GTR+G	250	uce_1224_right, uce_592_right
149	GTR+G	388	uce_1228_left, uce_31_core
150	GTR+G	248	uce_1228_core
151	GTR+I+G	115	uce_1228_right, uce_879_right
152	GTR+G	50	uce_1229_left
153	GTR+G	102	uce_1229_right
154	GTR+G	80	uce_1232_left
155	GTR+G	338	uce_1232_core
156	GTR+G	162	uce_1232_right, uce_795_right
157	GTR+I+G	278	uce_1233_left
158	GTR+I+G	50	uce_1233_core
159	GTR	51	uce_1233_right
160	GTR	53	uce_1234_left
161	GTR+G	575	uce_1234_core, uce_1242_core, uce_372_core
162	GTR+G	51	uce_1234_right
163	GTR+I+G	197	uce_759_right, uce_1238_left
164	GTR+I+G	756	uce_1238_core, uce_435_left, uce_811_core, uce_413_core
165	GTR+G	51	uce_1238_right

166	GTR+G	481	uce_879_core, uce_124_left
167	GTR+G	912	uce_992_right, uce_180_core, uce_124_core, uce_183_core
168	GTR+G	415	uce_547_right, uce_124_right, uce_383_left
169	GTR+G	145	uce_1242_left
170	GTR+G	51	uce_1242_right
171	GTR+G	147	uce_1243_left
172	GTR+G	173	uce_1243_core
173	GTR+G	50	uce_1243_right
174	GTR+G	51	uce_1249_left
175	GTR+I+G	443	uce_1249_core, uce_643_left
176	GTR+I+G	385	uce_1249_right, uce_795_core, uce_706_core
177	GTR+G	53	uce_1251_left
178	GTR	83	uce_1251_core
179	GTR	70	uce_1251_right
180	GTR+I+G	236	uce_1253_left
181	GTR+G	112	uce_1253_core
182	GTR+G	62	uce_1253_right
183	GTR	121	uce_1256_left
184	GTR+G	166	uce_1256_right
185	GTR	82	uce_1260_left
186	GTR	70	uce_1260_core
187	GTR+G	538	uce_247_right, uce_1263_left, uce_61_left
188	GTR+I+G	879	uce_921_core, uce_1263_core, uce_26_core
189	GTR+G	50	uce_1263_right
190	GTR+I+G	91	uce_1269_left
191	GTR+G	72	uce_1269_core
192	GTR+G	269	uce_769_right, uce_1269_right
193	GTR+G	105	uce_1270_left
194	GTR+I+G	1097	uce_808_core, uce_468_core, uce_311_core, uce_1270_core, uce_466_core
195	GTR+G	197	uce_54_core, uce_1270_right
196	GTR+G	335	uce_915_left, uce_759_left, uce_1276_left
197	GTR+I+G	133	uce_1276_core
198	GTR+G	513	uce_932_core, uce_1276_right
199	GTR+I+G	309	uce_1277_core
200	GTR+G	157	uce_1277_right
201	GTR+G	227	uce_1279_left, uce_660_right
202	GTR+I+G	809	uce_1279_core, uce_957_right
203	GTR+G	223	uce_1279_right
204	GTR+G	55	uce_1281_left
205	GTR	65	uce_1281_right
206	GTR+G	56	uce_1282_left
207	GTR+G	271	uce_1282_core
208	GTR+G	220	uce_447_right, uce_1282_right

209	GTR+G	100	uce_1286_left, uce_510_right
210	GTR+G	79	uce_1286_core
211	GTR+G	251	uce_1286_right
212	GTR+G	70	uce_1287_left
213	GTR+I+G	788	uce_1287_core, uce_1338_left, uce_24_left, uce_885_left
214	GTR+G	255	uce_1287_right
215	GTR+I+G	654	uce_274_core, uce_129_left
216	GTR+G	118	uce_129_core
217	GTR+G	68	uce_129_right
218	GTR+G	255	uce_1293_left
219	GTR+G	283	uce_1293_core
220	GTR+G	230	uce_1293_right
221	GTR+G	275	uce_1296_core, uce_565_right
222	GTR	53	uce_1296_right
223	GTR+G	417	uce_810_left, uce_13_left
224	GTR	222	uce_13_core
225	GTR+G	304	uce_13_right
226	GTR+G	129	uce_1305_core
227	GTR	54	uce_1305_right
228	GTR+G	77	uce_1307_left
229	GTR+I+G	1120	uce_810_core, uce_1307_core, uce_607_core
230	GTR+G	508	uce_159_right, uce_1307_right
231	GTR+G	162	uce_1316_left
232	GTR+G	93	uce_1316_right
233	GTR+G	1050	uce_154_core, uce_1318_left, uce_27_core, uce_411_left
234	GTR	66	uce_1318_core
235	GTR+I+G	1312	uce_1318_right, uce_624_core, uce_802_core
236	GTR+G	443	uce_1321_left, uce_494_right
237	GTR+G	423	uce_1321_core, uce_535_core
238	GTR+G	55	uce_1321_right
239	GTR+G	857	uce_1324_left, uce_699_core
240	GTR+G	173	uce_1324_core
241	GTR+G	135	uce_1324_right
242	GTR+G	107	uce_1326_left
243	GTR+G	540	uce_495_core, uce_792_core, uce_245_core, uce_1326_core
244	GTR+G	70	uce_1326_right
245	GTR+G	163	uce_642_right, uce_1334_left
246	GTR+G	109	uce_1334_right
247	GTR+G	84	uce_1338_right
248	GTR+G	76	uce_136_left
249	GTR+G	354	uce_136_core
250	GTR	59	uce_136_right
251	GTR+I+G	51	uce_139_left

252	GTR+I+G	581	uce_139_core, uce_674_core, uce_569_core
253	GTR+G	50	uce_139_right
254	GTR+G	125	uce_140_left
255	GTR+G	69	uce_140_core
256	GTR+G	235	uce_140_right
257	GTR+G	171	uce_143_left
258	GTR+I+G	601	uce_952_core, uce_143_core, uce_187_left
259	GTR+G	51	uce_143_right
260	GTR+I+G	132	uce_149_left
261	GTR+G	127	uce_149_core
262	GTR+G	190	uce_149_right
263	GTR+G	129	uce_151_left
264	GTR+I+G	99	uce_151_core
265	GTR+G	134	uce_191_right, uce_151_right
266	GTR	147	uce_152_left
267	GTR+G	184	uce_152_core
268	GTR+G	164	uce_152_right
269	GTR+G	92	uce_154_left
270	GTR	66	uce_154_right
271	GTR+G	312	uce_472_right, uce_159_left
272	GTR+G	53	uce_159_core
273	GTR+G	207	uce_161_left
274	GTR+G	70	uce_162_left
275	GTR+G	50	uce_162_core
276	GTR+G	90	uce_162_right
277	GTR+G	74	uce_166_left
278	GTR+G	297	uce_166_right
279	GTR+G	164	uce_167_left
280	GTR+G	270	uce_167_right
281	GTR+G	50	uce_168_left
282	GTR+I+G	292	uce_168_core, uce_597_core
283	GTR	64	uce_168_right
284	GTR+G	127	uce_174_left
285	GTR+I+G	139	uce_174_core
286	GTR+G	148	uce_174_right
287	GTR+G	180	uce_175_left
288	GTR+I+G	436	uce_175_core
289	GTR+G	167	uce_175_right
290	GTR+G	200	uce_176_left, uce_25_left
291	GTR	82	uce_176_core
292	GTR+G	104	uce_176_right
293	GTR+G	52	uce_180_left
294	GTR+G	512	uce_24_core, uce_180_right
295	GTR+G	55	uce_181_left
296	GTR+I+G	62	uce_181_core
297	GTR+G	124	uce_183_left
298	GTR+G	130	uce_183_right
299	GTR+G	719	uce_663_core, uce_185_left
300	GTR	50	uce_185_core
301	GTR	77	uce_185_right
302	GTR+G	162	uce_187_core
303	GTR	63	uce_187_right
304	GTR+G	50	uce_191_left
305	GTR+G	92	uce_192_left
306	GTR+G	342	uce_598_core, uce_192_core
307	GTR+G	260	uce_192_right

308	GTR+G	82	uce_194_left
309	GTR	120	uce_194_core
310	GTR+G	196	uce_194_right
311	GTR	77	uce_196_left
312	GTR+G	417	uce_196_core
313	GTR+G	192	uce_196_right
314	GTR+G	50	uce_199_left
315	GTR+G	224	uce_199_core
316	GTR+G	130	uce_199_right
317	GTR	66	uce_201_left
318	GTR	63	uce_201_core
319	GTR+G	214	uce_201_right
320	GTR	82	uce_203_left
321	GTR+I+G	309	uce_203_core
322	GTR+I+G	139	uce_203_right
323	GTR+G	67	uce_204_left
324	GTR+G	97	uce_204_right
325	GTR+I+G	178	uce_21_left
326	GTR+I+G	493	uce_21_core
327	GTR+G	57	uce_21_right
328	GTR+G	50	uce_214_left
329	GTR+G	456	uce_227_core, uce_214_core
330	GTR+I+G	83	uce_214_right
331	GTR	136	uce_920_left, uce_215_left
332	GTR+G	374	uce_215_core
333	GTR+I+G	200	uce_327_left, uce_215_right
334	GTR+G	187	uce_219_left
335	GTR+G	142	uce_219_core
336	GTR+G	118	uce_219_right
337	GTR+G	144	uce_220_left
338	GTR+G	50	uce_220_right
339	GTR+I+G	51	uce_227_left
340	GTR+G	191	uce_227_right
341	GTR+G	71	uce_23_left
342	GTR+I+G	318	uce_461_core, uce_23_core
343	GTR+G	85	uce_23_right
344	GTR+I+G	292	uce_238_left
345	GTR+I+G	334	uce_532_core, uce_238_core
346	GTR+G	210	uce_238_right
347	GTR+G	54	uce_24_right
348	GTR+G	50	uce_242_left
349	GTR+G	191	uce_242_core
350	GTR+G	51	uce_242_right
351	GTR+G	50	uce_245_left
352	GTR+G	205	uce_245_right
353	GTR+G	203	uce_247_left
354	GTR+G	221	uce_247_core
355	GTR+G	157	uce_249_left
356	GTR+G	95	uce_249_right
357	GTR	143	uce_25_core
358	GTR	50	uce_25_right
359	GTR+G	109	uce_251_left
360	GTR	77	uce_251_core
361	GTR+G	649	uce_251_right
362	GTR+G	353	uce_252_left
363	GTR+G	282	uce_252_core
364	GTR+G	165	uce_252_right
365	GTR+G	71	uce_26_left
366	GTR+I+G	86	uce_26_right
367	GTR+G	50	uce_267_left
368	GTR+G	294	uce_267_core
369	GTR+G	58	uce_267_right

370	GTR+G	160	uce_27_left
371	GTR+G	57	uce_27_right
372	GTR	62	uce_271_left
373	GTR+G	181	uce_271_core
374	GTR+G	143	uce_271_right
375	GTR	61	uce_273_left
376	GTR+G	262	uce_273_core
377	GTR+G	183	uce_273_right, uce_819_right
378	GTR+G	222	uce_274_left
379	GTR+G	236	uce_274_right
380	GTR+G	279	uce_276_left
381	GTR+I+G	148	uce_276_core
382	GTR+G	50	uce_276_right
383	GTR+G	306	uce_280_left, uce_98_left
384	GTR+G	193	uce_280_core
385	GTR+I+G	361	uce_280_right
386	GTR	50	uce_282_left
387	GTR+G	401	uce_375_left, uce_768_right, uce_282_core
388	GTR+G	347	uce_549_right, uce_282_right, uce_459_left
389	GTR+G	204	uce_283_left
390	GTR+G	215	uce_283_core
391	GTR+G	138	uce_283_right
392	GTR+G	255	uce_287_left
393	GTR+I+G	247	uce_287_core
394	GTR+G	65	uce_287_right
395	GTR+G	121	uce_288_left
396	GTR+I+G	421	uce_288_core, uce_836_core
397	GTR+G	60	uce_288_right
398	GTR+G	50	uce_289_left
399	GTR+G	483	uce_529_core, uce_289_core
400	GTR+G	84	uce_295_left
401	GTR+I+G	383	uce_295_core
402	GTR+G	86	uce_295_right
403	GTR+G	135	uce_3_left
404	GTR+G	378	uce_3_core
405	GTR+G	262	uce_3_right
406	GTR+G	225	uce_30_left
407	GTR+I+G	619	uce_30_core, uce_737_core, uce_665_core
408	GTR	58	uce_30_right
409	GTR+G	323	uce_302_left
410	GTR+I+G	374	uce_302_core, uce_474_core
411	GTR+G	200	uce_305_left
412	GTR+I+G	295	uce_305_core
413	GTR+G	247	uce_305_right, uce_532_right
414	GTR+G	71	uce_307_left
415	GTR+I+G	327	uce_307_core
416	GTR+G	107	uce_307_right
417	GTR+G	185	uce_309_left
418	GTR	55	uce_309_core
419	GTR+I+G	454	uce_309_right
420	GTR+G	134	uce_31_left
421	GTR+I+G	50	uce_310_left
422	GTR+G	415	uce_310_core
423	GTR+G	134	uce_310_right, uce_38_right

424	GTR+G	52	uce_311_left
425	GTR+G	64	uce_311_right
426	GTR+G	50	uce_320_left
427	GTR+G	68	uce_320_right
428	GTR+G	357	uce_327_core
429	GTR+G	190	uce_327_right
430	GTR+G	331	uce_331_left, uce_570_right
431	GTR+G	51	uce_331_right
432	GTR+I+G	659	uce_60_core, uce_332_core
433	GTR+G	183	uce_332_right
434	GTR+G	69	uce_335_left
435	GTR+I+G	211	uce_335_right
436	GTR	65	uce_338_left
437	GTR	80	uce_338_right
438	GTR+G	100	uce_34_left
439	GTR+G	545	uce_493_core, uce_34_core
440	GTR+G	102	uce_34_right
441	GTR+G	52	uce_344_left
442	GTR+I+G	93	uce_344_core
443	GTR+G	50	uce_344_right
444	GTR+I+G	51	uce_346_left
445	GTR+I+G	336	uce_346_core
446	GTR+I+G	201	uce_346_right
447	GTR+G	239	uce_348_left
448	GTR+I+G	499	uce_348_core, uce_651_core
449	GTR	145	uce_348_right
450	GTR+G	304	uce_351_left
451	GTR	50	uce_351_right
452	GTR+G	200	uce_353_left
453	GTR+G	117	uce_353_right
454	GTR+I+G	805	uce_504_core, uce_446_right, uce_420_left, uce_695_core, uce_356_left
455	GTR+G	435	uce_752_core, uce_356_core
456	GTR+I+G	1073	uce_458_core, uce_54_right, uce_358_core
457	GTR+G	221	uce_358_right
458	GTR+G	127	uce_359_left
459	GTR+G	456	uce_359_core
460	GTR+G	214	uce_865_right, uce_359_right
461	GTR+G	82	uce_36_left
462	GTR	84	uce_36_core
463	GTR+I+G	82	uce_36_right
464	GTR+G	106	uce_368_left
465	GTR	256	uce_368_core
466	GTR	84	uce_368_right
467	GTR+G	50	uce_369_left
468	GTR+I+G	384	uce_502_core, uce_369_core
469	GTR+G	109	uce_369_right
470	GTR+G	56	uce_372_left
471	GTR+G	374	uce_372_right
472	GTR+G	614	uce_374_left
473	GTR+G	178	uce_374_core
474	GTR+I+G	317	uce_375_core
475	GTR+G	82	uce_375_right
476	GTR	131	uce_67_left, uce_376_left

477	GTR+G	634	uce_376_core, uce_781_core
478	GTR	91	uce_376_right
479	GTR+G	50	uce_377_left
480	GTR+G	102	uce_377_right, uce_992_core
481	GTR+G	88	uce_38_left
482	GTR+G	205	uce_38_core
483	GTR+I+G	264	uce_383_core
484	GTR+G	50	uce_383_right
485	GTR+I+G	55	uce_391_left
486	GTR+G	71	uce_391_right
487	GTR+G	90	uce_392_left
488	GTR+G	449	uce_655_core, uce_392_core
489	GTR+G	202	uce_392_right
490	GTR+G	102	uce_394_left
491	GTR+I+G	639	uce_394_core, uce_526_core
492	GTR+G	172	uce_394_right
493	GTR+G	72	uce_396_left
494	GTR+I+G	1539	uce_761_core, uce_396_core, uce_776_core, uce_915_core, uce_697_core, uce_968_left
495	GTR+G	87	uce_396_right
496	GTR	50	uce_402_left
497	GTR+G	160	uce_402_core
498	GTR+G	61	uce_402_right
499	GTR+G	50	uce_407_left
500	GTR+G	118	uce_407_core
501	GTR+G	83	uce_407_right
502	GTR+G	84	uce_408_left
503	GTR+G	109	uce_408_right
504	GTR+G	256	uce_410_left
505	GTR+I+G	862	uce_716_core, uce_410_core, uce_636_core
506	GTR+G	145	uce_410_right
507	GTR+G	471	uce_752_left, uce_411_right
508	GTR+G	68	uce_413_left
509	GTR+G	113	uce_413_right
510	GTR+G	74	uce_414_left
511	GTR	137	uce_414_core
512	GTR+G	200	uce_414_right
513	GTR+G	574	uce_418_left
514	GTR+G	176	uce_418_core
515	GTR	71	uce_418_right
516	GTR+G	122	uce_42_left
517	GTR+G	684	uce_494_core, uce_42_core, uce_819_core, uce_524_core
518	GTR+G	50	uce_42_right
519	GTR+G	91	uce_420_right
520	GTR+G	78	uce_428_left
521	GTR+G	191	uce_428_core
522	GTR+G	73	uce_428_right
523	GTR+I+G	50	uce_431_left
524	GTR+I+G	132	uce_431_core
525	GTR+I+G	129	uce_431_right, uce_901_left
526	GTR+G	136	uce_435_core

527	GTR+G	150	uce_471_right, uce_435_right
528	GTR+I+G	609	uce_446_core
529	GTR+G	254	uce_447_left, uce_569_right
530	GTR+G	209	uce_447_core
531	GTR+G	312	uce_449_left
532	GTR+G	355	uce_449_right
533	GTR+G	127	uce_450_left
534	GTR+G	187	uce_450_core
535	GTR	123	uce_450_right
536	GTR+G	156	uce_458_left, uce_891_right
537	GTR+G	51	uce_458_right
538	GTR+I+G	1127	uce_669_core, uce_459_core
539	GTR+G	105	uce_46_left
540	GTR+I+G	291	uce_46_core
541	GTR+G	50	uce_46_right
542	GTR+G	58	uce_460_left
543	GTR+G	59	uce_460_right
544	GTR+G	50	uce_461_left
545	GTR+G	50	uce_461_right
546	GTR+G	72	uce_466_left
547	GTR+G	109	uce_466_right
548	GTR+G	775	uce_968_right, uce_870_core, uce_561_core, uce_467_left
549	GTR	50	uce_467_core
550	GTR+G	301	uce_467_right
551	GTR+G	290	uce_468_left
552	GTR	131	uce_468_right
553	GTR+G	477	uce_469_left
554	GTR+G	188	uce_469_core
555	GTR+G	286	uce_469_right, uce_982_left
556	GTR	50	uce_47_left
557	GTR+G	99	uce_47_right
558	GTR	136	uce_471_left
559	GTR+G	280	uce_471_core
560	GTR+G	68	uce_472_left
561	GTR+G	70	uce_472_core
562	GTR+G	50	uce_474_left
563	GTR+G	51	uce_474_right
564	GTR+G	129	uce_493_left
565	GTR+G	328	uce_924_right, uce_493_right
566	GTR+G	208	uce_609_left, uce_494_left
567	GTR+G	51	uce_495_left
568	GTR+G	50	uce_495_right
569	GTR+G	79	uce_496_left
570	GTR+I+G	98	uce_496_right
571	GTR+G	63	uce_498_left
572	GTR+G	50	uce_498_core
573	GTR+G	117	uce_498_right
574	GTR	80	uce_502_left
575	GTR+G	51	uce_502_right
576	GTR+G	185	uce_503_left
577	GTR+G	284	uce_503_right
578	GTR+I+G	145	uce_504_left
579	GTR+G	190	uce_504_right
580	GTR+I+G	59	uce_508_left
581	GTR+G	115	uce_508_core
582	GTR+G	163	uce_508_right
583	GTR	50	uce_509_left

584	GTR+G	444	uce_509_core
585	GTR+I+G	465	uce_509_right
586	GTR+G	51	uce_51_left
587	GTR+G	215	uce_691_core, uce_51_core
588	GTR+G	63	uce_51_right
589	GTR+G	68	uce_510_left
590	GTR+I+G	625	uce_541_core, uce_510_core, uce_580_core, uce_835_core
591	GTR	81	uce_516_left
592	GTR+G	176	uce_516_core
593	GTR+I+G	227	uce_516_right
594	GTR	63	uce_518_left
595	GTR+I+G	603	uce_518_core, uce_948_core
596	GTR+G	431	uce_717_left, uce_518_right
597	GTR+G	581	uce_520_core, uce_590_core
598	GTR+G	188	uce_520_right
599	GTR	65	uce_524_left
600	GTR+G	74	uce_524_right
601	GTR+G	360	uce_525_core
602	GTR+G	58	uce_526_left
603	GTR+G	206	uce_526_right
604	GTR+G	181	uce_527_left
605	GTR+G	263	uce_527_right
606	GTR+G	118	uce_529_left
607	GTR+G	289	uce_529_right
608	GTR+G	50	uce_532_left
609	GTR+G	83	uce_535_left
610	GTR+G	200	uce_535_right
611	GTR	62	uce_536_left
612	GTR+G	365	uce_536_core, uce_747_left
613	GTR+G	136	uce_536_right
614	GTR+I+G	354	uce_537_left
615	GTR+G	64	uce_537_core
616	GTR+I+G	386	uce_537_right
617	GTR	183	uce_54_left
618	GTR+G	89	uce_540_left
619	GTR+G	137	uce_540_core
620	GTR+G	224	uce_541_left
621	GTR+G	195	uce_697_left, uce_541_right
622	GTR+G	237	uce_545_left
623	GTR+G	297	uce_545_core
624	GTR+G	259	uce_545_right
625	GTR+G	54	uce_546_left
626	GTR	70	uce_546_core
627	GTR+G	87	uce_546_right
628	GTR	100	uce_547_left
629	GTR+G	50	uce_549_left
630	GTR	202	uce_549_core
631	GTR+G	224	uce_552_left
632	GTR+G	136	uce_552_right
633	GTR+G	129	uce_553_left, uce_861_right
634	GTR+G	262	uce_553_core
635	GTR+G	213	uce_553_right
636	GTR+G	390	uce_60_left, uce_556_left
637	GTR+G	77	uce_556_core
638	GTR+G	68	uce_556_right
639	GTR+G	175	uce_561_left

640	GTR+G	78	uce_561_right
641	GTR	55	uce_564_left
642	GTR+G	78	uce_564_right
643	GTR+G	98	uce_565_left
644	GTR+I+G	63	uce_565_core
645	GTR	68	uce_566_left
646	GTR+I+G	357	uce_566_core
647	GTR+G	324	uce_737_left, uce_566_right
648	GTR+G	50	uce_567_left
649	GTR+G	118	uce_567_right
650	GTR	197	uce_568_left
651	GTR+G	244	uce_568_core
652	GTR+G	158	uce_568_right
653	GTR+G	152	uce_569_left
654	GTR+G	201	uce_57_right
655	GTR+G	231	uce_570_left
656	GTR+G	297	uce_570_core
657	GTR+G	179	uce_572_left
658	GTR+I+G	196	uce_572_core
659	GTR+G	53	uce_572_right
660	GTR+G	66	uce_574_left
661	GTR+G	70	uce_574_right
662	GTR+G	51	uce_575_left
663	GTR+I+G	178	uce_575_core
664	GTR+G	197	uce_575_right
665	GTR+G	195	uce_577_left
666	GTR+I+G	101	uce_577_core
667	GTR+G	199	uce_577_right
668	GTR+G	64	uce_580_left
669	GTR+G	57	uce_580_right
670	GTR+G	83	uce_585_left
671	GTR+I+G	160	uce_585_core
672	GTR	63	uce_585_right
673	GTR+G	154	uce_590_left
674	GTR+G	329	uce_590_right
675	GTR+G	50	uce_592_left
676	GTR+G	71	uce_592_core
677	GTR+G	54	uce_597_right
678	GTR+G	218	uce_598_left
679	GTR+G	106	uce_598_right
680	GTR+G	163	uce_60_right
681	GTR+G	217	uce_600_left
682	GTR+G	188	uce_600_core
683	GTR+G	197	uce_600_right
684	GTR+G	143	uce_604_core
685	GTR+G	189	uce_604_right
686	GTR+G	50	uce_605_left
687	GTR+G	50	uce_605_right
688	GTR+G	237	uce_607_left
689	GTR+G	66	uce_607_right
690	GTR+G	126	uce_609_right
691	GTR+G	167	uce_61_core
692	GTR+G	165	uce_643_right, uce_61_right
693	GTR	91	uce_620_core
694	GTR+G	317	uce_620_right
695	GTR	54	uce_622_left
696	GTR+G	129	uce_622_core
697	GTR+G	218	uce_624_left
698	GTR+G	131	uce_624_right
699	GTR+G	54	uce_63_left
700	GTR+G	50	uce_63_right
701	GTR+G	191	uce_636_left
702	GTR+G	454	uce_636_right
703	GTR+G	439	uce_64_left

704	GTR+G	217	uce_64_core
705	GTR+I+G	370	uce_671_right, uce_640_left
706	GTR+G	237	uce_640_core
707	GTR	64	uce_640_right
708	GTR+G	435	uce_642_core
709	GTR+G	65	uce_643_core
710	GTR+G	209	uce_646_left
711	GTR+G	287	uce_884_core, uce_646_core
712	GTR+G	108	uce_646_right
713	GTR+G	80	uce_647_left
714	GTR+I+G	221	uce_647_core
715	GTR+G	121	uce_647_right
716	GTR+G	104	uce_648_left
717	GTR+G	458	uce_648_core
718	GTR+I+G	207	uce_648_right
719	GTR	66	uce_649_left
720	GTR+G	246	uce_649_core
721	GTR+I+G	378	uce_649_right
722	GTR+G	103	uce_651_left
723	GTR+G	217	uce_651_right
724	GTR+I+G	711	uce_68_core, uce_860_core, uce_653_left
725	GTR+G	243	uce_952_left, uce_653_core
726	GTR+G	50	uce_653_right
727	GTR+G	58	uce_655_left
728	GTR	67	uce_655_right
729	GTR+G	52	uce_663_left
730	GTR+G	53	uce_663_right
731	GTR+I+G	50	uce_665_left
732	GTR+G	201	uce_665_right
733	GTR+G	124	uce_666_left
734	GTR+G	65	uce_666_right
735	GTR+G	50	uce_668_left
736	GTR+I+G	100	uce_668_core
737	GTR+I+G	50	uce_668_right
738	GTR+G	118	uce_669_left
739	GTR	52	uce_669_right
740	GTR+G	360	uce_996_core, uce_67_core
741	GTR+G	50	uce_67_right
742	GTR	50	uce_671_left
743	GTR+G	306	uce_671_core
744	GTR+G	83	uce_672_left
745	GTR+I+G	123	uce_672_core
746	GTR+G	186	uce_672_right
747	GTR+G	87	uce_674_left
748	GTR+I+G	136	uce_674_right
749	GTR+G	239	uce_68_left
750	GTR+G	50	uce_68_right
751	GTR+G	382	uce_682_right
752	GTR+G	166	uce_685_left
753	GTR+G	174	uce_685_core
754	GTR+G	50	uce_685_right
755	GTR+G	71	uce_690_left
756	GTR+I+G	437	uce_690_core, uce_747_core
757	GTR+G	219	uce_690_right
758	GTR+G	69	uce_691_left
759	GTR+G	50	uce_691_right
760	GTR+G	52	uce_692_left
761	GTR+G	183	uce_692_right
762	GTR+G	50	uce_693_left
763	GTR+G	50	uce_693_right

764	GTR+G	50	uce_695_left
765	GTR+G	56	uce_695_right
766	GTR+G	70	uce_699_left
767	GTR+G	206	uce_699_right
768	GTR+G	178	uce_70_left
769	GTR+G	317	uce_70_core
770	GTR+G	51	uce_70_right
771	GTR+G	76	uce_701_left
772	GTR+I+G	398	uce_701_core, zic
773	GTR+G	126	uce_701_right
774	GTR	178	uce_705_left
775	GTR+I+G	495	uce_705_core
776	GTR+G	50	uce_705_right
777	GTR+G	95	uce_706_left
778	GTR+G	52	uce_706_right
779	GTR+G	50	uce_713_left
780	GTR+G	203	uce_713_core
781	GTR+I+G	503	uce_883_core, uce_713_right
782	GTR+G	91	uce_716_left
783	GTR+G	91	uce_716_right
784	GTR+I+G	744	uce_759_core, uce_717_core
785	GTR+G	439	uce_717_right
786	GTR+G	150	uce_718_left
787	GTR+G	343	uce_718_core
788	GTR+G	50	uce_718_right
789	GTR	51	uce_723_left
790	GTR+G	74	uce_723_core
791	GTR+G	50	uce_723_right
792	GTR+G	61	uce_73_left
793	GTR+G	382	uce_73_core
794	GTR+G	60	uce_73_right
795	GTR+G	238	uce_737_right
796	GTR+G	131	uce_74_left
797	GTR+I+G	577	uce_74_core
798	GTR+G	223	uce_74_right
799	GTR	128	uce_745_left
800	GTR+G	471	uce_745_core
801	GTR+G	102	uce_745_right
802	GTR+G	50	uce_747_right
803	GTR+G	113	uce_748_left
804	GTR+I+G	440	uce_748_core
805	GTR+G	83	uce_748_right
806	GTR+G	250	uce_749_left
807	GTR	62	uce_749_core
808	GTR+G	522	uce_749_right
809	GTR+G	191	uce_750_left
810	GTR	177	uce_750_core
811	GTR+G	325	uce_750_right
812	GTR+G	156	uce_752_right
813	GTR+I+G	347	uce_756_left
814	GTR+I+G	280	uce_756_core, uce_762_left
815	GTR+G	194	uce_756_right
816	GTR+G	84	uce_757_left
817	GTR+G	193	uce_757_core
818	GTR+I+G	562	uce_757_right
819	GTR+G	85	uce_758_left
820	GTR	50	uce_758_right
821	GTR+G	144	uce_761_left
822	GTR+G	362	uce_761_right
823	GTR+G	58	uce_762_core
824	GTR+I+G	115	uce_762_right
825	GTR+I+G	200	uce_768_left

826	GTR+G	50	uce_768_core
827	GTR+I+G	98	uce_769_left
828	GTR+G	50	uce_769_core
829	GTR+G	69	uce_776_left
830	GTR+G	79	uce_776_right
831	GTR+G	187	uce_777_left
832	GTR+I+G	107	uce_777_core
833	GTR+G	164	uce_777_right
834	GTR+G	94	uce_781_left
835	GTR+G	67	uce_781_right
836	GTR+G	86	uce_787_left
837	GTR+G	81	uce_787_right
838	GTR+I+G	52	uce_792_left
839	GTR+G	161	uce_792_right
840	GTR+G	314	uce_795_left
841	GTR+G	65	uce_797_left
842	GTR+G	172	uce_797_core
843	GTR+G	53	uce_797_right
844	GTR+G	62	uce_802_left
845	GTR+G	187	uce_808_left, uce_802_right, uce_975_core
846	GTR	145	uce_808_right
847	GTR	69	uce_810_right
848	GTR+G	50	uce_811_left
849	GTR+G	63	uce_811_right
850	GTR+G	327	uce_815_left
851	GTR+G	238	uce_815_core
852	GTR+G	100	uce_815_right
853	GTR+G	133	uce_819_left
854	GTR+G	57	uce_826_left
855	GTR+G	135	uce_826_core
856	GTR	51	uce_826_right
857	GTR+G	50	uce_830_left
858	GTR+I+G	220	uce_830_core
859	GTR+G	52	uce_830_right
860	GTR+G	108	uce_833_left
861	GTR+I+G	539	uce_833_core
862	GTR+G	172	uce_833_right
863	GTR+G	91	uce_834_left
864	GTR+G	356	uce_834_core
865	GTR+G	51	uce_834_right
866	GTR+G	105	uce_835_left
867	GTR+G	91	uce_835_right
868	GTR+G	127	uce_836_right
869	GTR+G	169	uce_837_left
870	GTR+G	294	uce_837_core
871	GTR+G	60	uce_837_right
872	GTR+G	201	uce_84_left
873	GTR+I+G	52	uce_84_right
874	GTR+G	127	uce_846_left
875	GTR+G	242	uce_846_core
876	GTR+G	189	uce_846_right
877	GTR+I+G	340	uce_852_left
878	GTR+G	160	uce_852_core
879	GTR+G	81	uce_852_right
880	GTR	86	uce_858_right
881	GTR+I+G	61	uce_860_left
882	GTR+G	54	uce_860_right
883	GTR+G	221	uce_861_left
884	GTR+G	208	uce_861_core
885	GTR+G	50	uce_864_left
886	GTR+G	152	uce_864_core
887	GTR+G	65	uce_864_right
888	GTR+G	50	uce_865_left
889	GTR+I+G	359	uce_865_core

890	GTR+G	135	uce_870_left
891	GTR+G	171	uce_870_right
892	GTR+G	75	uce_879_left
893	GTR	61	uce_88_left
894	GTR+G	149	uce_88_core
895	GTR+G	261	uce_88_right
896	GTR+G	75	uce_881_left
897	GTR+G	353	uce_881_core
898	GTR+G	101	uce_881_right
899	GTR+G	119	uce_883_left
900	GTR+G	98	uce_884_left
901	GTR+I+G	50	uce_884_right
902	GTR+G	130	uce_885_core
903	GTR+G	74	uce_885_right
904	GTR+G	85	uce_891_left
905	GTR+I+G	180	uce_891_core
906	GTR+G	74	uce_894_left
907	GTR+I+G	490	uce_894_core
908	GTR+G	111	uce_894_right
909	GTR+G	59	uce_901_right
910	GTR+G	86	uce_908_left
911	GTR+I+G	619	uce_908_core
912	GTR+G	58	uce_908_right
913	GTR+I+G	112	uce_910_left
914	GTR+I+G	51	uce_910_core
915	GTR+G	256	uce_915_right
916	GTR+G	601	uce_920_core
917	GTR	58	uce_920_right
918	GTR+G	127	uce_921_left
919	GTR+G	50	uce_921_right
920	GTR+G	57	uce_924_left
921	GTR+I+G	414	uce_924_core
922	GTR+G	110	uce_932_left
923	GTR	50	uce_932_right
924	GTR+G	189	uce_934_left
925	GTR+G	519	uce_934_core
926	GTR+G	296	uce_934_right
927	GTR+G	65	uce_943_left
928	GTR+G	241	uce_943_core
929	GTR+G	110	uce_943_right
930	GTR+G	252	uce_948_left
931	GTR+G	265	uce_948_right
932	GTR+G	175	uce_952_right
933	GTR	68	uce_957_left
934	GTR+G	88	uce_957_core
935	GTR+G	50	uce_960_left
936	GTR+I+G	180	uce_960_core
937	GTR+G	67	uce_960_right
938	GTR+G	148	uce_966_left
939	GTR+G	54	uce_966_right
940	GTR+G	79	uce_968_core
941	GTR+G	50	uce_975_left
942	GTR+I+G	264	uce_975_right
943	GTR+G	64	uce_98_right
944	GTR+I+G	258	uce_981_core
945	GTR+G	50	uce_981_right
946	GTR	185	uce_982_core
947	GTR+G	398	uce_982_right
948	GTR+G	53	uce_987_core
949	GTR+G	59	uce_987_right
950	GTR+G	326	uce_99_left
951	GTR+G	473	uce_99_core
952	GTR+G	51	uce_99_right
953	GTR	68	uce_990_left
954	GTR+G	50	uce_992_left
955	GTR+G	63	uce_993_left

956	GTR+I+G	311	uce_993_core
957	GTR+G	50	uce_993_right
958	GTR+G	62	uce_996_left
959	GTR+G	94	uce_996_right
960	GTR+G	246	uce_997_core
961	GTR	50	uce_997_right
962	GTR+I+G	369	12
963	GTR+I+G	513	16
964	GTR+I+G	218	coi
965	GTR+I+G	264	enc
966	GTR+I+G	242	myh
967	GTR+I+G	456	rag