

**INSTITUTO NACIONAL DE SEMILLAS****Resolución 227/2022****RESOL-2022-227-APN-INASE#MAGYP**

Ciudad de Buenos Aires, 24/05/2022

VISTO el Expediente N° EX-2021-51646765-APN-DA#INASE del Registro del INSTITUTO NACIONAL DE SEMILLAS, organismo descentralizado en la órbita del MINISTERIO DE AGRICULTURA, GANADERÍA Y PESCA, y la necesidad de establecer normas tendientes a garantizar el cumplimiento de la Ley de Semillas y Creaciones Fitogenéticas N° 20.247, y

CONSIDERANDO:

Que el INSTITUTO NACIONAL DE SEMILLAS, organismo descentralizado en la órbita del MINISTERIO DE AGRICULTURA, GANADERÍA Y PESCA, órgano de aplicación de la Ley de Semillas y Creaciones Fitogenéticas N° 20.247, tiene como uno de sus propósitos fundamentales establecer criterios para garantizar la identidad de las semillas y proteger la propiedad de las creaciones fitogenéticas en el marco del objetivo de la citada ley.

Que, asimismo, se requiere establecer un listado de marcadores basados en ADN del tipo Single Nucleotide Polymorphisms (SNPs) para complementar el cumplimiento del requisito de diferenciabilidad de las nuevas creaciones fitogenéticas.

Que los marcadores tipo SNPs se han seleccionado mediante un trabajo conjunto del Sector Público y Privado en base a estudios genotípicos sobre el germoplasma varietal de *Gossypium hirsutum* L.

Que será necesario, para establecer la organización, siembra y conducción de las Colecciones de Referencias de Algodón, una fecha límite para la presentación de las muestras y la información sobre el genotipado de la presentación de nuevas solicitudes de inscripción ante el Registro Nacional de Cultivares y/o Registro Nacional de la Propiedad de Cultivares del INSTITUTO NACIONAL DE SEMILLAS.

Que la COMISIÓN NACIONAL DE SEMILLAS, creada por la Ley de Semillas y Creaciones Fitogenéticas N° 20.247, en su reunión de fecha 12 de abril de 2022, según Acta N° 492, ha aconsejado hacer lugar a lo solicitado.

Que la Dirección del Registro de Variedades, la Dirección de Evaluación de Calidad, ambas dependientes de la Dirección Nacional de Desarrollo de Semillas y Creaciones Fitogenéticas, y la Dirección de Asuntos Jurídicos del INSTITUTO NACIONAL DE SEMILLAS, han tomado la intervención técnica que les compete.

Que el suscripto es competente para firmar el presente acto, en virtud de lo establecido en la Resolución N° RESOL-2022-72-APN-MAGYP de fecha 2 de abril de 2022.

Por ello,

EL PRESIDENTE DEL DIRECTORIO DEL INSTITUTO NACIONAL DE SEMILLAS

RESUELVE:

ARTÍCULO 1°.- Apruébase un listado de marcadores basados en ADN del tipo Single Nucleotide Polymorphisms (SNPs) y su orden, que figura en el Anexo I (IF-2022-51698832-APN-INASE#MAGYP) de la presente resolución, para la caracterización de variedades de algodón a los fines de garantizar la protección y ayudar al cumplimiento del requisito de diferenciabilidad de las creaciones fitogenéticas en el marco de la Ley de Semillas y Creaciones Fitogenéticas N° 20.247.

ARTÍCULO 2°.- El INSTITUTO NACIONAL DE SEMILLAS podrá establecer una fecha límite para la presentación de la información del genotipado y/o muestras por cada variedad presentada para la inscripción en el Registro Nacional de Cultivares y/o Registro Nacional de la Propiedad de Cultivares del INSTITUTO NACIONAL DE SEMILLAS, organismo descentralizado en la órbita del MINISTERIO DE AGRICULTURA, GANADERÍA Y PESCA.

ARTÍCULO 3°.- El INSTITUTO NACIONAL DE SEMILLAS dispondrá, de acuerdo a como lo considere, como será la forma de lectura de los alelos, la aplicación y formato de presentación de los datos del genotipado.

ARTÍCULO 4°.- El INSTITUTO NACIONAL DE SEMILLAS podrá actualizar el listado de marcadores que figura en el Anexo I cuando razones técnicas así lo aconsejaren.

ARTÍCULO 5°.- El INSTITUTO NACIONAL DE SEMILLAS, indicará el PROTOCOLO GUÍA para la presentación de datos de genotipado en el Anexo II (IF-2022-51698907-APN-INASE#MAGYP) de la presente resolución, para ser presentados ante la Dirección de Registro de Variedades por parte de los interesados en inscribir en el Registro Nacional de Cultivares y/o Registro Nacional de la Propiedad de Cultivares nuevas creaciones fitogenéticas de la especie algodón, siendo esta presentación de carácter obligatorio para poder acceder a las inscripciones en los mencionados Registros, para nuevas variedades, para aquellas cuyos trámites de inscripción fueran iniciados con anterioridad a la presente resolución, y para todas aquellas variedades ya inscriptas en el Registro Nacional de Cultivares y/o Registro Nacional de la Propiedad de Cultivares.

ARTÍCULO 6°.- En el contexto del cumplimiento de la Ley de Semillas y Creaciones Fitogenéticas N° 20.247 solo será válido el grupo de marcadores que el INSTITUTO NACIONAL DE SEMILLAS establezca.

ARTÍCULO 7°.- Comuníquese, publíquese, dese a la Dirección Nacional del Registro Oficial y oportunamente archívese.

Obdulio San Martín

NOTA: El/los Anexo/s que integra/n este(a) Resolución se publican en la edición web del BORA -www.boletinoficial.gob.ar-

e. 01/06/2022 N° 39364/22 v. 01/06/2022

(Nota Infoleg: Los anexos referenciados en la presente norma han sido extraídos de la edición web de Boletín Oficial. Los mismos pueden consultarse en el siguiente link: [AnexoI](#), [AnexoII](#))

ANEXO I

1	i13101Gh_G_T	61	i22168Gh_T_C	121	i36795Gh_T_C
2	i11942Gh_C_T	62	i06899Gh_C_A	122	i35953Gh_G_A
3	i06215Gh_C_A	63	i28500Gh_T_C	123	i21338Gh_G_A
4	i28107Gh_A_C	64	i40970Gh_T_G	124	i35848Gh_A_C
5	i33564Gh_T_C	65	i02848Gh_T_C	125	i19114Gh_G_A
6	i44470Gh_T_C	66	i29013Gh_A_G	126	i02745Gh_C_T
7	i21207Gh_G_A	67	i46443Gh_C_T	127	i42078Gh_G_T
8	i00415Gh_C_T	68	i46503Gh_G_A	128	i02231Gh_C_T
9	i05648Gh_G_A	69	i23135Gh_G_A	129	i14920Gh_C_T
10	i33654Gh_G_A	70	i38384Gh_T_C	130	i14946Gh_G_A
11	i48654Gh_G_A	71	i23448Gh_G_A	131	i10879Gh_T_C
12	i32747Gh_G_A	72	i16477Gh_T_G	132	i01338Gh_T_G
13	i23704Gh_T_C	73	i03245Gh_C_T	133	i15538Gh_T_G
14	i03670Gh_G_A	74	i33670Gh_G_A	134	i01446Gh_A_G
15	i29625Gh_C_T	75	i23805Gh_T_C	135	i10783Gh_A_G
16	i46610Gh_G_A	76	i38198Gh_C_A	136	i01521Gh_A_G
17	i46264Gh_A_G	77	i03169Gh_G_T	137	i02083Gh_C_T
18	i51509Gb_G_A	78	i10281Gh_C_A	138	i43628Gh_C_T
19	i42038Gh_A_G	79	i45246Gh_A_G	139	i42465Gh_C_A
20	i35374Gh_A_G	80	i33612Gh_T_G	140	i43387Gh_A_G
21	i05535Gh_C_A	81	i37344Gh_T_C	141	i17600Gh_A_G
22	i00893Gh_C_A	82	i37680Gh_C_T	142	i43363Gh_C_T
23	i38429Gh_C_T	83	i48157Gh_G_A	143	i43220Gh_C_T
24	i30264Gh_T_C	84	i28291Gh_T_C	144	i43093Gh_T_G
25	i33093Gh_G_A	85	i17444Gh_C_T	145	i02378Gh_G_A
26	i29361Gh_C_T	86	i58887Gb_T_C	146	i17853Gh_A_G
27	i47036Gh_C_A	87	i00161Gh_C_T	147	i42534Gh_G_A
28	i42098Gh_A_G	88	i19287Gh_A_C	148	i02441Gh_G_A
29	i36617Gh_C_T	89	i41184Gh_C_T	149	i34577Gh_T_C
30	i20289Gh_A_G	90	i33725Gh_G_T	150	i34510Gh_A_G
31	i00259Gh_A_C	91	i27621Gh_A_G	151	i22157Gh_G_A
32	i20201Gh_A_G	92	i30265Gh_C_T	152	i24206Gh_A_G
33	i41748Gh_C_T	93	i54160Gb_C_T	153	i08598Gh_C_T
34	i21278Gh_G_A	94	i40776Gh_T_C	154	i29532Gh_A_G
35	i51218Gb_T_C	95	i08167Gh_T_C	155	i29520Gh_G_A
36	i45043Gh_T_C	96	i44384Gh_T_C	156	i29440Gh_A_G
37	i46139Gh_A_G	97	i42343Gh_A_G	157	i29357Gh_G_A
38	i17279Gh_G_A	98	i06348Gh_T_G	158	i08579Gh_A_G
39	i05650Gh_C_T	99	i35195Gh_T_C	159	i06590Gh_T_C
40	i38198Gh_C_A	100	i46443Gh_C_T	160	i08445Gh_A_G
41	i39846Gh_G_A	101	i00667Gh_C_T	161	i28075Gh_G_T
42	i32404Gh_G_A	102	i02467Gh_G_T	162	i23911Gh_G_A
43	i11646Gh_A_G	103	i06396Gh_C_T	163	i28038Gh_G_T
44	i15002Gh_C_T	104	i69754Gl_G_A	164	i28028Gh_A_C
45	i33287Gh_G_A	105	i11323Gh_A_G	165	i27965Gh_G_A
46	i46877Gh_G_T	106	i41400Gh_G_T	166	i07250Gh_G_A
47	i02726Gh_A_G	107	i19176Gh_G_A	167	i26925Gh_C_T
48	i00682Gh_A_G	108	i39574Gh_C_A	168	i07835Gh_T_C
49	i35125Gh_A_G	109	i39523Gh_G_A	169	i07882Gh_T_G
50	i02230Gh_G_T	110	i39425Gh_C_T	170	i25143Gh_A_G
51	i30603Gh_G_T	111	i20596Gh_C_T	171	i25796Gh_G_T
52	i45537Gh_G_T	112	i25349Gh_G_T	172	i06182Gh_G_A
53	i36573Gh_G_T	113	i03514Gh_G_A	173	i30010Gh_C_T
54	i24926Gh_T_C	114	i03519Gh_G_A	174	i34314Gh_C_T
55	i49090Gh_C_A	115	i38489Gh_A_G	175	i23052Gh_G_A
56	i52450Gb_C_T	116	i03732Gh_C_T	176	i34077Gh_T_C
57	i02939Gh_T_C	117	i03739Gh_T_C	177	i33921Gh_C_A
58	i39794Gh_G_A	118	i37504Gh_C_T	178	i33584Gh_C_T
59	i00282Gh_T_C	119	i37366Gh_C_T	179	i09119Gh_T_C
60	i13433Gh_G_A	120	i36857Gh_A_C	180	i33388Gh_G_A

181	i32821Gh_T_C	241	i43638Gh_G_A	301	i34719Gh_G_A
182	i22734Gh_G_A	242	i43672Gh_G_A	302	i03092Gh_G_A
183	i32465Gh_C_T	243	i36727Gh_A_G	303	i63137Gt_G_T
184	i08991Gh_G_A	244	i21104Gh_T_C	304	i22045Gh_T_C
185	i23904Gh_A_G	245	i02413Gh_C_T	305	i03430Gh_C_A
186	i31809Gh_C_T	246	i35065Gh_G_T	306	i08110Gh_A_G
187	i05593Gh_A_G	247	i42429Gh_G_A	307	i29990Gh_A_G
188	i31433Gh_C_T	248	i40082Gh_C_T	308	i42716Gh_G_A
189	i23737Gh_A_G	249	i34781Gh_C_T	309	i17131Gh_G_A
190	i23790Gh_T_C	250	i04673Gh_C_T	310	i26401Gh_G_A
191	i30764Gh_G_A	251	i38924Gh_C_T	311	i17544Gh_A_C
192	i23856Gh_G_T	252	i34348Gh_G_T	312	i17545Gh_T_G
193	i05844Gh_G_A	253	i03494Gh_C_T	313	i08309Gh_A_C
194	i30175Gh_T_G	254	i19521Gh_C_A	314	i00971Gh_G_A
195	i25311Gh_A_G	255	i31193Gh_T_C	315	i44576Gh_C_A
196	i52187Gb_C_T	256	i38828Gh_G_A	316	i05827Gh_T_C
197	i11928Gh_C_T	257	i35471Gh_C_T	317	i47573Gh_A_G
198	i13404Gh_G_A	258	i32139Gh_C_T	318	i34717Gh_A_C
199	i00412Gh_T_C	259	i41984Gh_G_A	319	i09650Gh_C_T
200	i47207Gh_A_G	260	i21258Gh_T_G	320	i17688Gh_A_C
201	i49275Gh_A_C	261	i39394Gh_G_A	321	i08482Gh_C_A
202	i47325Gh_C_A	262	i04675Gh_C_T	322	i02102Gh_A_G
203	i47698Gh_T_C	263	i39133Gh_C_A	323	i40163Gh_C_T
204	i65534Gm_C_T	264	i14493Gh_G_A	324	i20014Gh_C_A
205	i00554Gh_G_A	265	i01711Gh_T_G	325	i39345Gh_G_T
206	i51651Gb_G_T	266	i45536Gh_A_C	326	i40911Gh_T_C
207	i49136Gh_C_T	267	i24160Gh_A_G	327	i09651Gh_A_G
208	i54746Gb_T_C	268	i44796Gh_A_G	328	i63153Gt_A_G
209	i50859Gb_C_T	269	i28664Gh_G_A	329	i00705Gh_T_G
210	i44860Gh_G_A	270	i07164Gh_T_G	330	i33186Gh_G_A
211	i18008Gh_T_C	271	i45393Gh_G_A	331	i13102Gh_T_C
212	i49452Gh_C_T	272	i14710Gh_T_C	332	i03433Gh_C_T
213	i31633Gh_T_C	273	i07560Gh_G_A	333	i04735Gh_G_A
214	i32914Gh_A_G	274	i28392Gh_C_A	334	i21849Gh_T_C
215	i22710Gh_A_C	275	i26863Gh_T_C	335	i13293Gh_T_C
216	i03747Gh_T_C	276	i28780Gh_A_G	336	i04799Gh_T_C
217	i44443Gh_A_G	277	i27866Gh_G_T	337	i40266Gh_T_C
218	i39880Gh_G_A	278	i27101Gh_T_C	338	i27721Gh_T_C
219	i45292Gh_C_T	279	i24583Gh_G_A	339	i49119Gh_T_C
220	i02146Gh_A_G	280	i27933Gh_A_G	340	i09898Gh_A_G
221	i42933Gh_T_G	281	i27892Gh_A_G	341	i15292Gh_T_C
222	i36248Gh_G_A	282	i09487Gh_G_A	342	i43238Gh_A_G
223	i47144Gh_A_G	283	i44791Gh_C_T	343	i00978Gh_A_C
224	i13718Gh_T_C	284	i41173Gh_G_A	344	i11586Gh_T_C
225	i13451Gh_C_T	285	i40320Gh_G_A	345	i12924Gh_C_T
226	i03735Gh_T_C	286	i48000Gh_A_G	346	i23618Gh_G_A
227	i03511Gh_G_A	287	i04932Gh_T_C	347	i46939Gh_A_G
228	i21400Gh_A_C	288	i26762Gh_C_A	348	i43915Gh_T_C
229	i03737Gh_A_G	289	i45917Gh_A_C	349	i02438Gh_A_G
230	i46979Gh_C_A	290	i49167Gh_C_T	350	i44858Gh_A_G
231	i39124Gh_T_C	291	i08305Gh_G_A	351	i44872Gh_C_T
232	i36255Gh_A_G	292	i40393Gh_T_G	352	i49065Gh_C_T
233	i21748Gh_C_T	293	i46425Gh_T_C	353	i27998Gh_C_T
234	i23809Gh_T_C	294	i41600Gh_A_G	354	i02476Gh_C_T
235	i23827Gh_T_G	295	i49618Gh_G_A	355	i41913Gh_T_G
236	i36671Gh_G_A	296	i28464Gh_T_C	356	i14398Gh_A_G
237	i43092Gh_A_G	297	i31489Gh_C_T	357	i21497Gh_A_G
238	i05870Gh_G_A	298	i35661Gh_C_A	358	i46087Gh_T_C
239	i36433Gh_G_A	299	i02084Gh_C_T	359	i37484Gh_A_C
240	i43441Gh_C_T	300	i01658Gh_C_T	360	i09560Gh_A_C

361	i45012Gh_G_A	422	i31170Gh_G_A	482	i05649Gh_C_T
362	i01057Gh_T_C	423	i24496Gh_A_G	483	i23415Gh_A_G
363	i47996Gh_A_G	424	i23612Gh_T_C	484	i04503Gh_T_C
364	i17509Gh_A_G	425	i28174Gh_T_C	485	i29764Gh_A_C
365	i08970Gh_A_G	426	i27731Gh_T_C	486	i51174Gb_C_T
366	i25729Gh_T_C	427	i27223Gh_A_G	487	i06467Gh_G_A
367	i24455Gh_T_C	428	i27864Gh_T_C	488	i37454Gh_T_C
368	i29417Gh_A_G	429	i22163Gh_C_T	489	i00577Gh_G_A
369	i29474Gh_T_C	430	i33643Gh_G_A	490	i25025Gh_G_A
370	i39549Gh_A_C	431	i09106Gh_G_A	491	i46855Gh_G_A
371	i12949Gh_A_G	432	i05088Gh_T_C	492	i07629Gh_G_A
372	i24060Gh_C_T	433	i05090Gh_G_A	493	i08308Gh_C_T
373	i20228Gh_G_T	434	i33073Gh_T_C	494	i45483Gh_A_C
374	i41358Gh_A_C	435	i49426Gh_A_G	495	i27488Gh_G_A
375	i09911Gh_T_C	436	i23077Gh_A_C	496	i45210Gh_T_G
376	i04743Gh_T_G	437	i13431Gh_T_C	497	i61241Gt_C_T
377	i19549Gh_A_G	438	i23300Gh_C_A	498	i44983Gh_G_A
378	i23005Gh_C_T	439	i31721Gh_T_C	499	i60714Gt_A_G
379	i20682Gh_C_T	440	i23241Gh_C_T	500	i28781Gh_T_G
380	i46850Gh_G_A	441	i09861Gh_T_C	501	i05095Gh_G_A
381	i26678Gh_G_A	442	i09899Gh_G_A	502	i35105Gh_C_A
382	i15886Gh_T_C	443	i02937Gh_G_A	503	i08592Gh_G_A
383	i20725Gh_T_G	444	i02957Gh_T_C	504	i21528Gh_T_C
384	i18805Gh_G_T	445	i44585Gh_C_T	505	i43814Gh_T_C
385	i27893Gh_C_T	446	i01963Gh_C_T	506	i21527Gh_C_T
386	i21004Gh_G_A	447	i02377Gh_C_T	507	i02055Gh_T_C
387	i26532Gh_G_T	448	i38667Gh_C_T	508	i43816Gh_T_C
388	i34828Gh_G_A	449	i03639Gh_A_G	509	i18843Gh_T_C
389	i09594Gh_A_C	450	i38050Gh_T_C	510	i19094Gh_T_C
390	i29271Gh_G_A	451	i38867Gh_G_A	511	i06221Gh_G_A
391	i57201Gb_C_T	452	i39790Gh_C_T	512	i46301Gh_T_C
392	i04746Gh_A_G	453	i03591Gh_T_G	513	i13072Gh_T_C
393	i47699Gh_T_G	454	i00945Gh_T_C	514	i48097Gh_C_T
394	i41384Gh_G_A	455	i39533Gh_A_C	515	i18768Gh_A_C
395	i05704Gh_A_G	456	i40859Gh_G_A	516	i06061Gh_A_C
396	i24171Gh_T_C	457	i02722Gh_A_C	517	i49401Gh_C_T
397	i40332Gh_C_A	458	i47610Gh_G_A	518	i19116Gh_C_A
398	i23392Gh_C_T	459	i14705Gh_G_A	519	i05321Gh_C_A
399	i29302Gh_C_T	460	i21083Gh_T_G	520	i18032Gh_C_T
400	i05647Gh_G_A	461	i47051Gh_C_T	521	i12019Gh_C_T
401	i34450Gh_C_A	462	i41574Gh_G_A	522	i50094Gb_C_T
402	i35346Gh_G_A	463	i45935Gh_C_T	523	i43558Gh_C_A
403	i48099Gh_A_C	464	i45902Gh_T_G	524	i47803Gh_A_G
404	i09883Gh_C_T	465	i14706Gh_A_G	525	i06223Gh_A_C
405	i04302Gh_C_T	466	i40451Gh_C_T	526	i47671Gh_A_G
406	i38670Gh_G_A	467	i37916Gh_G_A	527	i43956Gh_A_C
407	i16954Gh_A_G	468	i34643Gh_G_T	528	i42621Gh_A_G
408	i41480Gh_C_T	469	i39769Gh_A_C	529	i43741Gh_A_G
409	i33075Gh_A_G	470	i14061Gh_G_A	530	i16610Gh_G_T
410	i04303Gh_T_C	471	i32534Gh_A_G	531	i30865Gh_G_A
411	i03736Gh_T_C	472	i05854Gh_T_C	532	i30792Gh_C_T
412	i13036Gh_A_G	473	i39750Gh_C_T	533	i29124Gh_A_G
413	i19912Gh_A_C	474	i32774Gh_A_G	534	i10025Gh_A_G
414	i40828Gh_C_T	475	i00434Gh_A_C	535	i12825Gh_A_G
415	i30161Gh_C_T	476	i30344Gh_G_T	536	i37528Gh_G_A
416	i30107Gh_G_T	477	i08922Gh_G_A	537	i36194Gh_G_A
417	i12820Gh_A_G	478	i02918Gh_G_T	538	i04939Gh_T_C
418	i00312Gh_C_T	479	i00499Gh_T_C	539	i09491Gh_A_G
419	i29713Gh_T_C	480	i32305Gh_A_G	540	i04877Gh_C_T
420	i36277Gh_A_G	481	i02227Gh_G_A	541	i09127Gh_G_A
421	i21198Gh_A_G				

542	i35107Gh_A_C	602	i21919Gh_A_G	662	i32067Gh_T_C
543	i35106Gh_C_A	603	i09855Gh_A_G	663	i23223Gh_T_C
544	i13354Gh_T_C	604	i31101Gh_T_C	664	i40498Gh_G_T
545	i03437Gh_A_G	605	i18130Gh_T_C	665	i22996Gh_G_A
546	i03436Gh_G_T	606	i02718Gh_T_C	666	i32770Gh_G_A
547	i37911Gh_T_C	607	i49237Gh_A_G	667	i02228Gh_C_A
548	i03435Gh_G_A	608	i09856Gh_A_C	668	i34391Gh_C_T
549	i40061Gh_G_A	609	i31426Gh_C_A	669	i44683Gh_C_A
550	i39998Gh_G_A	610	i42387Gh_G_T	670	i40690Gh_G_T
551	i48164Gh_T_C	611	i21178Gh_A_G	671	i06471Gh_C_T
552	i48109Gh_G_A	612	i37833Gh_G_A	672	i29037Gh_C_T
553	i38212Gh_C_A	613	i25746Gh_T_C	673	i00211Gh_A_G
554	i03208Gh_C_T	614	i24994Gh_T_C	674	i01980Gh_C_T
555	i03688Gh_G_A	615	i30373Gh_T_C	675	i03626Gh_C_T
556	i05023Gh_G_T	616	i13640Gh_T_C	676	i28858Gh_T_G
557	i35844Gh_T_C	617	i02908Gh_G_A	677	i13962Gh_T_C
558	i29325Gh_G_A	618	i32537Gh_A_G	678	i44421Gh_T_C
559	i28393Gh_T_C	619	i25302Gh_T_C	679	i44760Gh_G_A
560	i39622Gh_G_A	620	i32863Gh_A_G	680	i41085Gh_G_A
561	i02313Gh_G_T	621	i21201Gh_G_A	681	i08093Gh_G_A
562	i30278Gh_T_C	622	i14664Gh_G_A	682	i16337Gh_T_C
563	i00509Gh_A_G	623	i25131Gh_A_G	683	i19203Gh_C_T
564	i34937Gh_C_T	624	i08092Gh_C_A	684	i22625Gh_A_C
565	i01087Gh_T_G	625	i46931Gh_C_T	685	i12157Gh_T_C
566	i27009Gh_A_C	626	i26261Gh_C_T	686	i19202Gh_G_T
567	i04781Gh_A_G	627	i26262Gh_A_G	687	i21196Gh_C_T
568	i41576Gh_C_A	628	i38279Gh_G_A	688	i23244Gh_G_A
569	i16615Gh_T_C	629	i49179Gh_G_A	689	i11920Gh_G_A
570	i25223Gh_A_G	630	i15634Gh_C_T	690	i12036Gh_G_A
571	i35818Gh_A_G	631	i37750Gh_G_A	691	i22199Gh_C_A
572	i26464Gh_C_A	632	i01677Gh_T_C	692	i21486Gh_T_C
573	i22290Gh_C_A	633	i45093Gh_G_A	693	i17512Gh_G_A
574	i24062Gh_G_A	634	i45206Gh_T_C	694	i14254Gh_A_G
575	i17219Gh_G_A	635	i13501Gh_G_A	695	i21945Gh_G_A
576	i27337Gh_T_C	636	i10632Gh_C_T	696	i15665Gh_A_C
577	i31412Gh_T_C	637	i36911Gh_G_A	697	i21947Gh_C_T
578	i58620Gb_G_A	638	i27693Gh_G_A	698	i08307Gh_A_G
579	i26354Gh_C_T	639	i36908Gh_T_C	699	i21963Gh_A_G
580	i63848Gm_A_G	640	i47173Gh_T_C	700	i16334Gh_G_A
581	i50086Gb_T_C	641	i07508Gh_T_C	701	i16244Gh_C_T
582	i00136Gh_C_A	642	i10332Gh_G_A	702	i16335Gh_T_C
583	i05935Gh_G_A	643	i21057Gh_T_C	703	i17417Gh_T_C
584	i47358Gh_T_C	644	i47318Gh_G_A	704	i19403Gh_A_G
585	i01909Gh_T_C	645	i07631Gh_C_A	705	i22184Gh_A_C
586	i41975Gh_T_C	646	i37273Gh_G_A	706	i24464Gh_C_T
587	i38158Gh_T_C	647	i44824Gh_G_A	707	i15125Gh_C_T
588	i39411Gh_C_A	648	i02414Gh_T_C	708	i19117Gh_G_A
589	i27102Gh_T_C	649	i47465Gh_A_G	709	i12156Gh_T_C
590	i32637Gh_G_A	650	i10331Gh_G_A	710	i25681Gh_A_G
591	i40628Gh_A_G	651	i23883Gh_G_T	711	i32299Gh_T_C
592	i22266Gh_C_A	652	i43265Gh_G_A	712	i34087Gh_C_T
593	i02176Gh_C_T	653	i39821Gh_G_A	713	i12139Gh_A_G
594	i37932Gh_A_G	654	i34335Gh_C_T	714	i44471Gh_G_T
595	i16517Gh_T_C	655	i04756Gh_A_G	715	i33355Gh_A_C
596	i06190Gh_T_C	656	i00362Gh_C_T	716	i44782Gh_G_A
597	i08599Gh_C_T	657	i42284Gh_A_G	717	i05323Gh_C_T
598	i35753Gh_G_A	658	i29935Gh_G_A	718	i05402Gh_C_T
599	i44052Gh_A_G	659	i02928Gh_T_C	719	i06062Gh_A_G
600	i03493Gh_A_G	660	i49521Gh_G_A	720	i01524Gh_C_T
601	i45199Gh_C_A	661	i02926Gh_C_A	721	i46284Gh_A_G
				722	i47116Gh_G_A

723	i30956Gh_A_G	784	i46818Gh_A_G	845	i49158Gh_T_C
724	i47229Gh_C_T	785	i15128Gh_C_T	846	i26219Gh_G_T
725	i30424Gh_C_A	786	i10628Gh_A_G	847	i31704Gh_G_A
726	i44301Gh_G_A	787	i05530Gh_C_T	848	i01076Gh_C_T
727	i44063Gh_C_A	788	i15251Gh_C_A	849	i22519Gh_G_A
728	i04375Gh_G_T	789	i32083Gh_C_T	850	i25863Gh_C_T
729	i35169Gh_C_A	790	i28494Gh_T_C	851	i31404Gh_A_G
730	i43069Gh_T_C	791	i09591Gh_C_T	852	i46717Gh_A_G
731	i35926Gh_G_A	792	i01523Gh_A_C	853	i32153Gh_T_C
732	i41639Gh_C_T	793	i06904Gh_A_G	854	i46297Gh_G_A
733	i41596Gh_A_G	794	i24924Gh_A_G	855	i46869Gh_A_G
734	i37453Gh_C_A	795	i32408Gh_C_T	856	i15633Gh_G_A
735	i41408Gh_A_G	796	i01105Gh_T_C	857	i45560Gh_G_A
736	i37913Gh_G_T	797	i39311Gh_G_A	858	i25234Gh_G_A
737	i03628Gh_T_C	798	i40739Gh_T_C	859	i45436Gh_T_C
738	i38932Gh_T_C	799	i41693Gh_G_A	860	i46853Gh_A_G
739	i40258Gh_T_C	800	i03440Gh_C_A	861	i24700Gh_T_C
740	i47417Gh_C_T	801	i57741Gb_A_G	862	i25839Gh_T_C
741	i45584Gh_G_T	802	i03091Gh_G_A	863	i46887Gh_T_C
742	i06905Gh_T_C	803	i43250Gh_T_G	864	i49241Gh_A_G
743	i29061Gh_G_A	804	i01977Gh_T_C	865	i23509Gh_G_T
744	i00439Gh_G_T	805	i00652Gh_G_T	866	i31135Gh_T_C
745	i00351Gh_G_T	806	i30186Gh_A_G	867	i11504Gh_G_T
746	i00266Gh_G_A	807	i28518Gh_A_G	868	i15889Gh_C_T
747	i07561Gh_C_T	808	i23269Gh_T_C	869	i47324Gh_T_C
748	i07834Gh_G_A	809	i45403Gh_C_T	870	i23867Gh_G_A
749	i53911Gb_C_T	810	i11919Gh_T_C	871	i23922Gh_A_C
750	i49221Gh_C_T	811	i48994Gh_G_A	872	i12912Gh_G_T
751	i63709Gm_A_G	812	i44958Gh_A_G	873	i24224Gh_A_G
752	i49530Gh_A_G	813	i09150Gh_C_T	874	i55198Gb_A_G
753	i29071Gh_C_T	814	i02301Gh_A_G	875	i46918Gh_A_G
754	i65303Gm_G_A	815	i34610Gh_T_C	876	i03067Gh_A_G
755	i25800Gh_G_A	816	i04672Gh_G_A	877	i08989Gh_C_T
756	i33933Gh_C_T	817	i02757Gh_G_A	878	i36634Gh_G_A
757	i12877Gh_G_A	818	i40137Gh_G_A	879	i42540Gh_G_A
758	i44916Gh_G_A	819	i02723Gh_T_C	880	i09853Gh_A_G
759	i27975Gh_C_T	820	i49208Gh_A_G	881	i36148Gh_G_A
760	i27887Gh_C_T	821	i17302Gh_T_C	882	i34827Gh_G_A
761	i27253Gh_T_C	822	i45431Gh_T_C	883	i43620Gh_G_A
762	i05021Gh_A_G	823	i13429Gh_G_A	884	i34180Gh_C_A
763	i23982Gh_T_C	824	i40516Gh_A_C	885	i33882Gh_A_G
764	i30144Gh_A_C	825	i40602Gh_T_C	886	i35335Gh_G_A
765	i40267Gh_C_T	826	i02909Gh_A_G	887	i33397Gh_G_T
766	i00543Gh_T_C	827	i02737Gh_A_G	888	i01910Gh_C_T
767	i50826Gb_C_T	828	i33778Gh_T_C	889	i40977Gh_A_G
768	i18780Gh_G_A	829	i30331Gh_A_G	890	i44949Gh_A_C
769	i00471Gh_G_A	830	i27201Gh_T_C	891	i38131Gh_G_A
770	i47504Gh_G_A	831	i33308Gh_T_C	892	i45035Gh_T_C
771	i41692Gh_G_A	832	i31953Gh_T_C	893	i20773Gh_G_A
772	i04385Gh_G_T	833	i35103Gh_T_C	894	i25706Gh_G_A
773	i13202Gh_C_T	834	i35449Gh_C_A	895	i21744Gh_G_A
774	i21410Gh_C_T	835	i29642Gh_T_C	896	i01564Gh_T_C
775	i05094Gh_C_A	836	i29161Gh_T_G	897	i42541Gh_G_A
776	i27230Gh_C_A	837	i35878Gh_A_G	898	i49395Gh_T_C
777	i14365Gh_C_T	838	i21395Gh_A_C	899	i27197Gh_G_A
778	i08924Gh_G_A	839	i32187Gh_T_G	900	i27058Gh_G_A
779	i31165Gh_A_G	840	i26929Gh_A_G	901	i21380Gh_T_C
780	i31320Gh_G_A	841	i37700Gh_G_A	902	i24363Gh_T_C
781	i23493Gh_C_T	842	i39314Gh_T_C	903	i27044Gh_T_C
782	i14835Gh_T_C	843	i12740Gh_T_G	904	i13061Gh_G_T
783	i46818Gh_A_G	844	i44244Gh_G_A	905	i36934Gh_T_C

		966	i09882Gh_T_G	1027	i25680Gh_G_A
906	i50644Gb_G_A	967	i19046Gh_A_C	1028	i09139Gh_G_A
907	i13063Gh_A_C	968	i36346Gh_A_G	1029	i09142Gh_A_C
908	i26517Gh_A_G	969	i32407Gh_T_C	1030	i09147Gh_T_C
909	i25042Gh_G_A	970	i17520Gh_G_A	1031	i22040Gh_G_A
910	i26260Gh_G_A	971	i02437Gh_T_G	1032	i39802Gh_G_A
911	i54208Gb_T_G	972	i41194Gh_C_T	1033	i05743Gh_C_A
912	i37712Gh_G_A	973	i30530Gh_T_G	1034	i10642Gh_T_C
913	i38249Gh_G_A	974	i37873Gh_C_T	1035	i20678Gh_A_G
914	i39445Gh_T_C	975	i41792Gh_G_A	1036	i09145Gh_G_A
915	i13426Gh_T_C	976	i02977Gh_T_C	1037	i35452Gh_T_C
916	i16333Gh_A_G	977	i11771Gh_T_C	1038	i15294Gh_G_A
917	i28648Gh_A_G	978	i16726Gh_C_T	1039	i05890Gh_T_G
918	i41997Gh_C_T	979	i29002Gh_C_T	1040	i27649Gh_C_T
919	i32438Gh_T_G	980	i14831Gh_A_G	1041	i43838Gh_A_G
920	i32475Gh_A_G	981	i06586Gh_C_T	1042	i27803Gh_G_A
921	i15747Gh_T_C	982	i29102Gh_A_G	1043	i01886Gh_G_A
922	i39617Gh_T_C	983	i38502Gh_T_C	1044	i05027Gh_G_A
923	i22575Gh_G_A	984	i11580Gh_A_G	1045	i01887Gh_T_C
924	i22317Gh_G_A	985	i15126Gh_C_A	1046	i10883Gh_G_A
925	i15192Gh_G_A	986	i39307Gh_A_G	1047	i44218Gh_G_A
926	i34544Gh_C_A	987	i39343Gh_T_C	1048	i29454Gh_C_A
927	i14850Gh_G_T	988	i01049Gh_A_G	1049	i29423Gh_T_C
928	i34886Gh_G_A	989	i03089Gh_T_C	1050	i29338Gh_G_A
929	i35098Gh_T_C	990	i07519Gh_T_C	1051	i65361Gm_T_C
930	i46904Gh_G_A	991	i16353Gh_C_A	1052	i44232Gh_T_G
931	i43887Gh_T_C	992	i19256Gh_G_A	1053	i28927Gh_T_C
932	i43569Gh_G_A	993	i40468Gh_C_T	1054	i08851Gh_G_A
933	i14406Gh_G_A	994	i25784Gh_G_A	1055	i09138Gh_T_C
934	i30825Gh_A_C	995	i05169Gh_G_A	1056	i41175Gh_T_C
935	i42856Gh_G_T	996	i06908Gh_A_C	1057	i24895Gh_G_A
936	i42591Gh_A_G	997	i12175Gh_A_G	1058	i32651Gh_T_C
937	i32223Gh_C_A	998	i35020Gh_G_A	1059	i00202Gh_G_A
938	i13829Gh_T_C	999	i33836Gh_T_C	1060	i32825Gh_T_C
939	i29632Gh_C_A	1000	i43120Gh_T_C	1061	i12092Gh_G_T
940	i29274Gh_G_A	1001	i33817Gh_T_C	1062	i23643Gh_C_A
941	i42264Gh_T_C	1002	i09514Gh_T_C	1063	i32080Gh_T_C
942	i42466Gh_T_C	1003	i43517Gh_C_A	1064	i42245Gh_T_C
943	i24843Gh_T_C	1004	i43059Gh_G_T	1065	i41809Gh_T_C
944	i08341Gh_C_T	1005	i44615Gh_G_A	1066	i33080Gh_G_A
945	i09175Gh_A_G	1006	i43486Gh_C_A	1067	i45071Gh_T_C
946	i00381Gh_G_A	1007	i44909Gh_T_C	1068	i17990Gh_T_C
947	i02951Gh_C_T	1008	i00184Gh_C_T	1069	i49729Gh_T_C
948	i02972Gh_A_G	1009	i35166Gh_G_A	1070	i02315Gh_G_T
949	i07540Gh_T_C	1010	i42703Gh_C_T	1071	i44451Gh_G_T
950	i08234Gh_T_C	1011	i21470Gh_G_A	1072	i00387Gh_G_A
951	i07112Gh_T_C	1012	i21421Gh_T_C	1073	i37459Gh_T_C
952	i07106Gh_A_C	1013	i45120Gh_G_A	1074	i43556Gh_T_C
953	i09173Gh_T_C	1014	i48414Gh_C_T	1075	i02007Gh_G_A
954	i03593Gh_T_G	1015	i22823Gh_G_A	1076	i09824Gh_C_A
955	i02156Gh_T_C	1016	i13770Gh_T_C	1077	i45350Gh_T_C
956	i04565Gh_T_C	1017	i00674Gh_C_T	1078	i46387Gh_T_C
957	i11515Gh_T_C	1018	i20840Gh_A_G	1079	i27979Gh_G_A
958	i08759Gh_T_C	1019	i03897Gh_T_C	1080	i39225Gh_T_C
959	i08968Gh_G_T	1020	i11120Gh_A_G	1081	i25233Gh_T_C
960	i09231Gh_G_A	1021	i11212Gh_T_C	1082	i09826Gh_T_C
961	i09181Gh_A_G	1022	i21549Gh_T_C	1083	i42388Gh_G_A
962	i02838Gh_G_A	1023	i11121Gh_A_G	1084	i39182Gh_T_C
963	i03687Gh_T_C	1024	i42799Gh_T_C	1085	i16775Gh_T_C
964	i02475Gh_T_G	1025	i09829Gh_G_A	1086	i09822Gh_G_A
965	i09183Gh_T_C	1026	i47029Gh_A_C	1087	i40368Gh_G_A

1088	i40368Gh_G_A	1149	i25612Gh_C_T	1210	i05087Gh_C_T
1089	i22285Gh_T_C	1150	i25420Gh_C_T	1211	i22885Gh_G_A
1090	i09810Gh_T_C	1151	i60834Gt_G_A	1212	i28785Gh_G_A
1091	i47522Gh_T_C	1152	i34271Gh_C_A	1213	i50271Gb_G_A
1092	i42610Gh_C_A	1153	i01905Gh_G_T	1214	i43379Gh_G_T
1093	i02423Gh_G_A	1154	i45660Gh_C_T	1215	i43394Gh_C_A
1094	i20649Gh_T_C	1155	i11688Gh_C_T	1216	i36285Gh_G_A
1095	i46812Gh_G_A	1156	i40845Gh_C_T	1217	i24720Gh_G_T
1096	i02761Gh_G_A	1157	i02887Gh_G_A	1218	i27378Gh_C_T
1097	i02728Gh_G_T	1158	i11925Gh_C_T	1219	i38468Gh_C_A
1098	i02755Gh_C_A	1159	i25571Gh_C_T	1220	i47603Gh_C_T
1099	i22628Gh_G_A	1160	i09900Gh_C_T	1221	i02978Gh_G_A
1100	i02753Gh_T_C	1161	i08115Gh_G_T	1222	i28846Gh_G_T
1101	i22108Gh_G_A	1162	i05825Gh_C_T	1223	i38931Gh_G_A
1102	i24730Gh_C_T	1163	i41248Gh_G_A	1224	i13464Gh_G_T
1103	i15818Gh_C_A	1164	i24417Gh_C_T	1225	i01196Gh_G_A
1104	i02729Gh_C_A	1165	i02924Gh_G_T	1226	i28203Gh_C_A
1105	i27444Gh_G_A	1166	i31059Gh_G_A	1227	i07797Gh_C_T
1106	i02760Gh_G_A	1167	i05798Gh_G_A	1228	i39303Gh_C_T
1107	i02759Gh_G_A	1168	i13200Gh_C_T	1229	i26870Gh_C_T
1108	i18005Gh_G_T	1169	i00531Gh_G_A	1230	i13553Gh_C_T
1109	i24974Gh_C_T	1170	i40044Gh_C_T	1231	i05874Gh_G_T
1110	i27841Gh_C_T	1171	i49122Gh_G_A	1232	i06207Gh_G_A
1111	i09831Gh_G_A	1172	i02895Gh_G_A	1233	i03205Gh_C_T
1112	i26095Gh_G_T	1173	i02563Gh_C_T	1234	i28729Gh_G_A
1113	i02724Gh_C_T	1174	i02373Gh_G_A	1235	i15194Gh_G_T
1114	i02719Gh_C_T	1175	i40752Gh_C_T	1236	i39323Gh_G_T
1115	i24000Gh_G_A	1176	i35042Gh_C_T	1237	i07114Gh_G_A
1116	i34428Gh_G_A	1177	i43352Gh_C_T	1238	i40038Gh_G_A
1117	i31164Gh_C_T	1178	i60567Gb_G_T	1239	i20782Gh_G_T
1118	i29752Gh_G_A	1179	i01733Gh_G_A	1240	i00935Gh_G_A
1119	i05660Gh_G_A	1180	i43825Gh_C_T	1241	i05081Gh_C_T
1120	i48286Gh_C_T	1181	i38344Gh_G_A	1242	i35551Gh_G_A
1121	i37190Gh_C_T	1182	i14824Gh_C_A	1243	i36840Gh_C_T
1122	i60122Gb_G_A	1183	i12140Gh_C_T	1244	i53644Gb_C_A
1123	i29509Gh_G_T	1184	i09816Gh_C_T	1245	i59052Gb_G_A
1124	i30954Gh_G_A	1185	i23640Gh_C_T	1246	i29004Gh_G_T
1125	i32921Gh_G_A	1186	i08665Gh_G_A	1247	i31438Gh_G_A
1126	i35399Gh_G_A	1187	i36035Gh_C_T	1248	i15387Gh_C_T
1127	i49338Gh_G_A	1188	i03461Gh_G_A	1249	i45320Gh_G_T
1128	i35470Gh_C_T	1189	i33365Gh_C_T	1250	i00550Gh_C_T
1129	i36907Gh_C_T	1190	i32645Gh_G_A	1251	i08631Gh_C_A
1130	i13427Gh_G_A	1191	i22063Gh_G_A	1252	i02727Gh_C_T
1131	i35674Gh_G_T	1192	i44000Gh_C_T	1253	i59340Gb_G_A
1132	i29753Gh_G_A	1193	i22329Gh_C_T	1254	i33072Gh_C_T
1133	i60956Gt_C_T	1194	i20658Gh_G_A	1255	i13430Gh_C_T
1134	i30418Gh_C_T	1195	i09172Gh_C_A	1256	i13432Gh_G_A
1135	i36906Gh_C_A	1196	i33446Gh_G_A	1257	i40204Gh_C_A
1136	i36073Gh_C_T	1197	i01337Gh_C_T	1258	i24778Gh_G_T
1137	i51803Gb_G_A	1198	i24965Gh_G_A	1259	i49299Gh_G_T
1138	i13788Gh_G_A	1199	i33648Gh_C_A	1260	i28543Gh_C_T
1139	i38112Gh_C_T	1200	i00349Gh_C_T	1261	i21669Gh_G_A
1140	i36373Gh_C_A	1201	i49564Gh_C_T	1262	i37899Gh_C_A
1141	i05824Gh_G_A	1202	i08393Gh_C_T	1263	i21526Gh_C_A
1142	i18521Gh_C_A	1203	i18258Gh_C_T	1264	i13434Gh_G_A
1143	i00192Gh_C_T	1204	i45894Gh_C_T	1265	i18857Gh_C_T
1144	i36891Gh_C_T	1205	i45475Gh_C_T	1266	i29345Gh_C_T
1145	i06712Gh_G_A	1206	i41787Gh_C_T	1267	i12381Gh_G_A
1146	i12745Gh_G_A	1207	i19453Gh_G_A	1268	i47137Gh_G_T
1147	i15001Gh_C_T	1208	i22949Gh_C_T	1269	i32206Gh_G_A
1148	i12621Gh_G_T	1209	i05071Gh_G_T	1270	i41340Gh_T_C

1271	i14987Gh_G_A	1332	i52287Gb_G_T	1393	i13362Gh_C_T
1272	i04468Gh_C_T	1333	i08608Gh_G_A	1394	i14613Gh_C_T
1273	i60305Gb_C_T	1334	i42173Gh_G_A	1395	i01686Gh_C_T
1274	i34388Gh_G_T	1335	i21406Gh_C_T	1396	i11844Gh_C_A
1275	i29413Gh_C_A	1336	i30361Gh_C_T	1397	i01738Gh_C_A
1276	i12164Gh_C_T	1337	i09827Gh_C_T	1398	i19999Gh_C_A
1277	i38010Gh_G_A	1338	i15737Gh_G_T	1399	i10283Gh_G_A
1278	i01660Gh_C_T	1339	i45921Gh_G_A	1400	i20903Gh_C_T
1279	i23446Gh_C_T	1340	i16781Gh_G_A	1401	i47258Gh_C_T
1280	i40464Gh_G_A	1341	i16780Gh_G_A	1402	i14026Gh_G_A
1281	i41188Gh_C_T	1342	i29577Gh_G_A	1403	i12722Gh_G_A
1282	i33087Gh_C_A	1343	i27662Gh_C_A	1404	i15922Gh_C_T
1283	i27976Gh_G_T	1344	i09825Gh_C_T	1405	i14740Gh_C_T
1284	i33684Gh_G_A	1345	i25114Gh_G_A	1406	i00901Gh_G_A
1285	i10291Gh_C_T	1346	i23447Gh_G_A	1407	i00902Gh_C_T
1286	i03822Gh_C_T	1347	i54042Gb_G_T	1408	i01916Gh_G_A
1287	i34647Gh_C_A	1348	i04742Gh_G_A	1409	i14702Gh_G_A
1288	i04470Gh_G_A	1349	i01885Gh_C_T	1410	i21315Gh_G_T
1289	i04925Gh_G_A	1350	i46399Gh_G_A	1411	i22564Gh_C_T
1290	i24798Gh_G_T	1351	i04541Gh_G_A	1412	i13060Gh_G_A
1291	i34064Gh_G_T	1352	i30765Gh_G_A	1413	i13058Gh_C_A
1292	i21604Gh_C_A	1353	i40462Gh_G_A	1414	i48294Gh_G_A
1293	i24917Gh_G_A	1354	i34731Gh_G_A	1415	i46688Gh_G_A
1294	i10639Gh_C_A	1355	i09921Gh_C_T	1416	i55389Gb_G_A
1295	i37312Gh_G_A	1356	i41603Gh_G_A	1417	i38596Gh_G_A
1296	i44084Gh_C_T	1357	i34202Gh_G_A	1418	i30542Gh_C_A
1297	i18269Gh_C_T	1358	i07793Gh_C_A	1419	i09830Gh_C_T
1298	i18321Gh_C_T	1359	i09931Gh_C_T	1420	i12741Gh_G_A
1299	i28173Gh_C_T	1360	i35313Gh_C_T	1421	i09938Gh_C_T
1300	i05914Gh_G_A	1361	i05841Gh_C_T	1422	i02447Gh_G_A
1301	i00237Gh_G_A	1362	i27839Gh_G_A	1423	i37228Gh_G_T
1302	i38615Gh_C_T	1363	i11443Gh_G_T	1424	i38762Gh_C_A
1303	i42040Gh_C_T	1364	i45054Gh_G_T	1425	i43890Gh_C_T
1304	i46247Gh_G_A	1365	i02309Gh_C_T	1426	i37074Gh_C_T
1305	i27000Gh_G_A	1366	i04978Gh_C_T	1427	i12044Gh_C_T
1306	i04564Gh_G_A	1367	i42782Gh_C_T	1428	i24879Gh_G_A
1307	i13022Gh_C_T	1368	i45342Gh_G_A	1429	i46934Gh_G_A
1308	i29375Gh_G_A	1369	i39896Gh_G_A	1430	i01280Gh_G_A
1309	i09184Gh_G_A	1370	i43606Gh_G_A	1431	i42608Gh_G_A
1310	i28115Gh_G_A	1371	i02411Gh_C_T	1432	i00516Gh_G_A
1311	i09440Gh_C_A	1372	i07153Gh_C_T	1433	i26380Gh_C_T
1312	i11045Gh_G_T	1373	i22447Gh_C_A	1434	i36231Gh_C_A
1313	i03446Gh_C_A	1374	i30743Gh_G_T	1435	i35686Gh_C_T
1314	i06496Gh_G_T	1375	i06248Gh_G_A	1436	i13368Gh_G_A
1315	i28069Gh_C_A	1376	i39453Gh_G_A	1437	i23333Gh_G_A
1316	i48255Gh_C_T	1377	i29756Gh_C_T	1438	i32315Gh_G_T
1317	i44690Gh_C_T	1378	i06948Gh_G_A	1439	i22544Gh_G_T
1318	i28710Gh_C_A	1379	i36234Gh_C_T	1440	i26044Gh_C_T
1319	i35049Gh_G_T	1380	i09159Gh_G_A	1441	i46709Gh_G_A
1320	i01737Gh_C_A	1381	i04376Gh_C_A	1442	i23457Gh_C_T
1321	i22060Gh_C_A	1382	i02968Gh_G_A	1443	i35112Gh_C_T
1322	i22748Gh_C_T	1383	i31540Gh_C_T	1444	i36771Gh_C_T
1323	i16784Gh_G_T	1384	i24859Gh_C_T	1445	i16943Gh_G_A
1324	i00379Gh_C_T	1385	i23700Gh_G_A	1446	i35734Gh_G_T
1325	i40423Gh_G_A	1386	i31839Gh_G_T	1447	i41921Gh_C_T
1326	i09836Gh_C_T	1387	i02970Gh_G_A	1448	i22804Gh_C_T
1327	i09841Gh_G_T	1388	i34972Gh_G_A	1449	i31090Gh_C_A
1328	i45750Gh_C_T	1389	i02975Gh_C_T	1450	i11931Gh_C_T
1329	i31174Gh_G_T	1390	i41685Gh_C_T	1451	i19300Gh_C_T
1330	i05803Gh_C_T	1391	i39689Gh_G_A	1452	i45885Gh_G_T
1331	i41618Gh_G_A	1392	i42401Gh_G_T	1453	i45261Gh_G_A

1454	i12079Gh_C_T	1515	i38771Gh_C_T	1576	i36189Gh_G_A
1455	i21390Gh_G_A	1516	i51490Gb_G_A	1577	i37991Gh_C_T
1456	i09813Gh_G_A	1517	i26454Gh_G_A	1578	i34203Gh_G_T
1457	i00848Gh_C_T	1518	i27867Gh_G_T	1579	i09806Gh_G_T
1458	i61175Gt_C_T	1519	i39591Gh_G_A	1580	i21289Gh_C_T
1459	i39386Gh_G_T	1520	i28541Gh_C_T	1581	i29230Gh_G_A
1460	i47377Gh_C_T	1521	i28065Gh_C_T	1582	i26975Gh_C_T
1461	i02193Gh_G_A	1522	i13103Gh_C_T	1583	i09807Gh_G_A
1462	i14910Gh_C_T	1523	i37564Gh_G_T	1584	i41884Gh_C_T
1463	i28210Gh_G_A	1524	i30935Gh_C_T	1585	i02988Gh_C_T
1464	i34724Gh_G_A	1525	i48153Gh_C_T	1586	i22345Gh_C_T
1465	i44706Gh_G_A	1526	i32208Gh_G_A	1587	i15754Gh_C_T
1466	i09166Gh_C_A	1527	i41330Gh_C_T	1588	i00378Gh_C_A
1467	i04771Gh_G_T	1528	i28272Gh_G_T	1589	i16461Gh_G_T
1468	i28335Gh_G_T	1529	i47168Gh_C_T	1590	i10804Gh_G_A
1469	i27719Gh_C_T	1530	i05703Gh_C_T	1591	i43646Gh_G_A
1470	i01058Gh_C_T	1531	i05609Gh_G_A	1592	i20315Gh_C_A
1471	i21293Gh_G_A	1532	i16941Gh_G_A	1593	i39917Gh_C_A
1472	i28890Gh_C_T	1533	i38435Gh_G_A	1594	i17061Gh_C_A
1473	i29943Gh_G_A	1534	i14383Gh_G_T	1595	i37232Gh_G_T
1474	i27134Gh_G_A	1535	i11436Gh_C_T	1596	i06214Gh_G_A
1475	i12442Gh_C_T	1536	i22098Gh_G_A	1597	i00169Gh_G_T
1476	i43684Gh_C_T	1537	i33841Gh_G_A	1598	i26374Gh_C_A
1477	i62915Gt_G_A	1538	i12047Gh_C_A	1599	i03729Gh_G_A
1478	i21525Gh_C_T	1539	i12727Gh_G_A	1600	i41189Gh_C_T
1479	i15520Gh_G_T	1540	i43574Gh_C_T	1601	i41159Gh_G_A
1480	i04052Gh_C_T	1541	i42877Gh_C_T	1602	i02925Gh_G_A
1481	i13059Gh_C_A	1542	i21807Gh_C_T	1603	i12060Gh_G_A
1482	i08633Gh_G_A	1543	i58145Gb_G_T	1604	i26914Gh_G_A
1483	i39021Gh_C_T	1544	i20288Gh_C_T	1605	i13361Gh_G_A
1484	i08629Gh_G_T	1545	i34297Gh_C_A	1606	i16619Gh_G_A
1485	i13057Gh_G_A	1546	i42505Gh_C_A	1607	i26935Gh_C_T
1486	i08256Gh_C_T	1547	i45074Gh_G_A	1608	i02995Gh_C_A
1487	i41619Gh_G_A	1548	i34928Gh_C_A	1609	i15938Gh_G_A
1488	i29352Gh_C_T	1549	i02194Gh_G_A	1610	i02962Gh_G_T
1489	i22986Gh_C_T	1550	i06203Gh_G_A	1611	i02996Gh_G_A
1490	i45538Gh_C_T	1551	i15890Gh_C_T	1612	i22191Gh_G_A
1491	i26851Gh_C_T	1552	i24105Gh_G_A	1613	i37364Gh_G_A
1492	i08079Gh_C_T	1553	i06046Gh_G_A	1614	i32636Gh_G_A
1493	i02298Gh_G_T	1554	i63389Gm_C_T	1615	i07621Gh_G_T
1494	i39744Gh_C_T	1555	i42938Gh_C_A	1616	i26209Gh_C_T
1495	i13019Gh_G_A	1556	i49403Gh_C_T	1617	i22706Gh_G_A
1496	i33563Gh_C_T	1557	i46213Gh_C_T	1618	i30150Gh_C_T
1497	i09604Gh_C_A	1558	i34725Gh_C_T	1619	i01657Gh_C_A
1498	i03171Gh_C_T	1559	i44828Gh_C_T	1620	i13017Gh_C_T
1499	i07945Gh_C_T	1560	i12806Gh_G_T	1621	i38397Gh_G_A
1500	i16787Gh_G_T	1561	i02889Gh_C_A	1622	i32712Gh_C_T
1501	i46459Gh_C_T	1562	i02302Gh_C_T	1623	i31654Gh_G_A
1502	i33428Gh_C_T	1563	i30959Gh_C_T	1624	i00814Gh_G_A
1503	i39515Gh_G_T	1564	i45366Gh_G_A	1625	i05537Gh_G_A
1504	i47331Gh_G_A	1565	i47328Gh_C_T	1626	i41895Gh_C_A
1505	i03696Gh_G_A	1566	i41632Gh_G_A	1627	i31901Gh_G_A
1506	i40875Gh_C_T	1567	i02347Gh_G_A	1628	i32030Gh_G_T
1507	i35116Gh_G_A	1568	i27463Gh_G_A	1629	i28135Gh_C_T
1508	i35272Gh_G_A	1569	i46439Gh_G_A	1630	i36358Gh_G_A
1509	i35883Gh_G_A	1570	i01694Gh_C_T	1631	i28172Gh_C_T
1510	i38059Gh_G_A	1571	i16686Gh_C_A	1632	i38980Gh_C_T
1511	i23685Gh_G_T	1572	i39903Gh_G_A	1633	i42708Gh_G_T
1512	i25837Gh_G_A	1573	i26289Gh_G_T	1634	i01567Gh_G_A
1513	i11437Gh_G_A	1574	i20523Gh_G_A	1635	i04033Gh_C_A
1514	i27885Gh_G_A	1575	i15944Gh_C_A	1636	i31600Gh_G_T

1637	i38950Gh_C_T	1698	i49044Gh_C_T	1759	i38463Gh_C_T
1638	i08775Gh_C_T	1699	i34104Gh_G_A	1760	i23196Gh_G_A
1639	i47895Gh_G_A	1700	i14988Gh_C_A	1761	i07620Gh_G_A
1640	i21531Gh_G_A	1701	i01889Gh_C_T	1762	i16472Gh_C_T
1641	i03479Gh_C_T	1702	i29300Gh_C_A	1763	i06378Gh_C_T
1642	i53682Gb_G_A	1703	i46231Gh_G_A	1764	i39891Gh_G_A
1643	i28665Gh_G_A	1704	i05091Gh_C_T	1765	i00229Gh_G_A
1644	i34538Gh_G_A	1705	i36933Gh_C_T	1766	i41080Gh_G_A
1645	i38803Gh_C_T	1706	i02919Gh_G_T	1767	i48022Gh_G_T
1646	i04704Gh_C_T	1707	i33030Gh_G_A	1768	i47965Gh_G_A
1647	i13016Gh_G_A	1708	i31406Gh_G_T	1769	i47839Gh_G_A
1648	i45520Gh_G_A	1709	i18799Gh_G_A	1770	i38964Gh_G_A
1649	i31650Gh_G_A	1710	i43403Gh_G_A	1771	i13280Gh_C_T
1650	i12726Gh_C_T	1711	i31992Gh_C_T	1772	i44686Gh_G_A
1651	i14075Gh_G_A	1712	i03824Gh_C_T	1773	i01978Gh_C_T
1652	i46067Gh_G_T	1713	i33531Gh_C_A	1774	i47037Gh_C_T
1653	i43243Gh_C_T	1714	i31574Gh_G_A	1775	i29569Gh_C_A
1654	i09926Gh_G_A	1715	i25168Gh_G_A	1776	i39598Gh_C_T
1655	i33165Gh_C_A	1716	i46024Gh_C_T	1777	i23466Gh_G_A
1656	i31525Gh_G_A	1717	i25035Gh_C_T	1778	i49308Gh_G_A
1657	i43181Gh_G_A	1718	i02306Gh_G_A	1779	i13283Gh_C_T
1658	i17966Gh_G_A	1719	i52504Gb_C_A	1780	i09686Gh_G_A
1659	i02348Gh_G_A	1720	i05624Gh_C_A	1781	i22720Gh_G_A
1660	i13162Gh_G_A	1721	i40102Gh_C_A	1782	i36192Gh_C_A
1661	i13133Gh_C_T	1722	i26144Gh_G_A	1783	i23481Gh_C_T
1662	i07520Gh_G_A	1723	i26120Gh_G_T	1784	i09936Gh_C_T
1663	i47588Gh_C_T	1724	i07883Gh_G_A	1785	i09927Gh_G_A
1664	i09436Gh_G_A	1725	i26156Gh_G_T	1786	i03725Gh_G_A
1665	i16490Gh_G_T	1726	i02994Gh_C_T	1787	i22550Gh_G_A
1666	i03073Gh_G_A	1727	i19449Gh_C_T	1788	i13771Gh_C_T
1667	i30994Gh_C_T	1728	i41990Gh_G_A	1789	i29324Gh_G_A
1668	i37872Gh_G_A	1729	i38998Gh_C_T	1790	i24019Gh_C_T
1669	i07517Gh_G_A	1730	i12285Gh_G_A	1791	i08065Gh_G_T
1670	i27767Gh_C_T	1731	i35250Gh_G_A	1792	i04054Gh_C_T
1671	i48360Gh_C_T	1732	i17712Gh_G_A	1793	i20100Gh_C_A
1672	i17284Gh_G_A	1733	i43626Gh_C_A	1794	i08637Gh_G_A
1673	i03105Gh_G_T	1734	i28644Gh_C_A	1795	i01052Gh_G_A
1674	i44164Gh_G_A	1735	i10806Gh_G_A	1796	i04845Gh_C_A
1675	i27704Gh_C_A	1736	i32650Gh_G_A	1797	i41163Gh_G_A
1676	i48417Gh_C_T	1737	i46435Gh_C_T	1798	i08640Gh_G_A
1677	i49400Gh_G_A	1738	i05653Gh_G_A	1799	i01142Gh_G_A
1678	i22164Gh_C_T	1739	i37231Gh_G_A	1800	i03416Gh_G_A
1679	i06087Gh_C_T	1740	i38286Gh_G_A	1801	i42341Gh_C_T
1680	i62448Gt_G_A	1741	i16421Gh_C_T	1802	i63343Gt_G_A
1681	i03069Gh_G_A	1742	i21938Gh_G_A	1803	i46124Gh_C_A
1682	i38101Gh_G_A	1743	i18829Gh_C_A	1804	i06246Gh_C_T
1683	i19448Gh_G_A	1744	i21035Gh_C_T	1805	i20908Gh_C_T
1684	i40424Gh_C_T	1745	i18054Gh_G_A	1806	i17582Gh_G_A
1685	i04848Gh_G_T	1746	i01021Gh_C_T	1807	i22212Gh_C_T
1686	i16205Gh_C_T	1747	i22455Gh_G_A	1808	i12172Gh_C_T
1687	i14188Gh_G_T	1748	i36982Gh_G_T	1809	i66427Ga_G_A
1688	i00976Gh_G_A	1749	i02907Gh_C_A	1810	i32403Gh_C_T
1689	i10646Gh_C_T	1750	i35063Gh_C_T	1811	i47688Gh_C_T
1690	i00160Gh_G_A	1751	i45370Gh_C_A	1812	i52798Gb_G_A
1691	i12217Gh_C_A	1752	i01676Gh_G_A	1813	i13538Gh_G_A
1692	i00162Gh_C_T	1753	i00214Gh_C_T	1814	i38477Gh_C_A
1693	i21751Gh_G_A	1754	i25783Gh_C_T	1815	i03870Gh_G_A
1694	i06216Gh_C_A	1755	i04783Gh_C_A	1816	i13457Gh_G_A
1695	i29468Gh_G_A	1756	i16478Gh_C_A	1817	i30205Gh_C_T
1696	i21043Gh_G_T	1757	i39742Gh_C_T	1818	i13452Gh_C_T
1697	i10492Gh_G_A	1758	i02906Gh_G_A	1819	i33572Gh_C_A

1820	i05711Gh_G_A	1881	i15047Gh_C_T	1942	i59453Gb_G_T
1821	i37434Gh_G_T	1882	i24376Gh_C_T	1943	i32202Gh_G_A
1822	i49405Gh_G_A	1883	i04546Gh_C_T	1944	i05417Gh_T_C
1823	i29768Gh_G_A	1884	i25127Gh_C_T	1945	i36350Gh_G_T
1824	i00386Gh_C_T	1885	i00220Gh_G_A	1946	i18583Gh_C_A
1825	i48367Gh_G_T	1886	i12675Gh_C_T	1947	i20657Gh_G_A
1826	i38153Gh_C_T	1887	i12815Gh_C_T	1948	i60309Gb_G_A
1827	i05625Gh_C_T	1888	i08990Gh_C_A	1949	i45681Gh_G_T
1828	i37034Gh_C_T	1889	i08578Gh_G_A	1950	i04058Gh_T_C
1829	i37023Gh_G_A	1890	i34678Gh_G_A	1951	i22218Gh_G_T
1830	i03826Gh_G_T	1891	i06344Gh_G_A	1952	i36748Gh_C_A
1831	i03844Gh_C_T	1892	i00508Gh_C_T	1953	i31837Gh_G_T
1832	i36299Gh_C_T	1893	i23313Gh_C_T	1954	i04056Gh_G_A
1833	i32272Gh_G_T	1894	i31983Gh_C_T	1955	i57440Gb_G_A
1834	i35267Gh_G_A	1895	i19446Gh_G_T	1956	i42774Gh_T_C
1835	i03114Gh_C_T	1896	i16687Gh_C_T	1957	i24182Gh_T_C
1836	i17446Gh_C_T	1897	i17636Gh_G_T	1958	i35236Gh_G_A
1837	i28013Gh_C_T	1898	i46000Gh_C_T	1959	i03724Gh_T_C
1838	i28120Gh_C_T	1899	i42746Gh_C_A	1960	i11518Gh_G_A
1839	i16413Gh_C_T	1900	i30563Gh_T_C	1961	i03723Gh_T_C
1840	i26745Gh_G_A	1901	i38794Gh_T_C	1962	i27558Gh_G_A
1841	i26995Gh_G_T	1902	i09435Gh_T_C	1963	i01029Gh_C_A
1842	i43376Gh_G_A	1903	i01400Gh_T_C	1964	i15280Gh_G_A
1843	i07623Gh_C_A	1904	i45016Gh_G_A	1965	i26797Gh_T_C
1844	i18589Gh_G_A	1905	i02125Gh_T_C	1966	i34470Gh_T_C
1845	i27188Gh_C_T	1906	i26632Gh_T_C	1967	i00558Gh_T_C
1846	i47506Gh_C_T	1907	i34009Gh_G_A	1968	i40047Gh_G_A
1847	i27357Gh_G_A	1908	i45271Gh_C_A	1969	i09375Gh_G_T
1848	i27473Gh_G_A	1909	i15768Gh_G_A	1970	i37914Gh_G_A
1849	i27582Gh_C_A	1910	i35075Gh_G_A	1971	i03733Gh_G_A
1850	i42247Gh_C_T	1911	i51258Gb_T_C	1972	i34130Gh_G_T
1851	i44591Gh_G_A	1912	i08648Gh_C_A	1973	i64452Gm_T_C
1852	i18793Gh_C_T	1913	i23664Gh_G_T	1974	i34032Gh_T_C
1853	i03246Gh_G_A	1914	i09214Gh_T_C	1975	i07887Gh_G_A
1854	i10846Gh_C_T	1915	i08630Gh_T_C	1976	i39581Gh_G_A
1855	i41924Gh_C_T	1916	i35707Gh_G_A	1977	i14765Gh_T_C
1856	i06920Gh_C_T	1917	i01383Gh_G_A	1978	i29089Gh_C_A
1857	i09687Gh_C_T	1918	i01461Gh_G_T	1979	i25468Gh_C_A
1858	i17985Gh_G_T	1919	i34413Gh_G_A	1980	i46437Gh_G_A
1859	i47636Gh_C_A	1920	i06853Gh_C_A	1981	i25407Gh_T_C
1860	i03592Gh_C_T	1921	i06340Gh_C_A	1982	i00393Gh_G_T
1861	i38889Gh_C_A	1922	i50381Gb_G_T	1983	i17394Gh_G_A
1862	i17204Gh_C_T	1923	i28617Gh_T_C	1984	i06893Gh_G_A
1863	i28618Gh_G_A	1924	i01463Gh_G_A	1985	i29140Gh_T_C
1864	i17059Gh_G_T	1925	i22095Gh_G_A	1986	i26072Gh_C_A
1865	i25575Gh_C_A	1926	i09171Gh_G_A	1987	i45360Gh_C_A
1866	i08233Gh_C_T	1927	i37918Gh_G_A	1988	i44336Gh_T_C
1867	i18012Gh_G_T	1928	i02195Gh_T_C	1989	i12068Gh_G_A
1868	i46744Gh_C_T	1929	i16682Gh_C_A	1990	i14118Gh_T_C
1869	i10471Gh_C_T	1930	i17511Gh_G_A	1991	i38357Gh_G_A
1870	i41866Gh_G_A	1931	i05630Gh_C_A	1992	i47281Gh_G_A
1871	i08995Gh_C_T	1932	i46057Gh_T_C	1993	i04020Gh_G_A
1872	i41873Gh_G_A	1933	i46166Gh_C_A	1994	i03595Gh_G_A
1873	i10491Gh_C_T	1934	i42364Gh_G_A	1995	i39327Gh_G_A
1874	i07824Gh_C_T	1935	i42786Gh_T_C	1996	i34438Gh_G_T
1875	i28304Gh_C_T	1936	i13011Gh_G_T	1997	i12171Gh_T_C
1876	i27870Gh_G_A	1937	i42316Gh_C_A	1998	i04628Gh_G_A
1877	i08085Gh_C_T	1938	i02282Gh_G_T	1999	i21238Gh_C_A
1878	i43051Gh_C_T	1939	i33484Gh_G_A	2000	i14741Gh_G_A
1879	i35122Gh_C_T	1940	i36289Gh_G_A	2001	i14742Gh_G_T
1880	i14779Gh_C_T	1941	i36331Gh_T_C	2002	i06902Gh_G_A

2003	i45496Gh_C_T	2064	i20690Gh_G_A	2125	i41754Gh_G_A
2004	i14997Gh_C_T	2065	i02248Gh_C_A	2126	i46205Gh_C_T
2005	i12963Gh_C_T	2066	i43788Gh_G_T	2127	i31353Gh_G_A
2006	i39026Gh_G_A	2067	i12128Gh_G_A	2128	i13256Gh_C_A
2007	i00199Gh_G_A	2068	i31133Gh_C_T	2129	i09696Gh_C_T
2008	i05135Gh_C_A	2069	i30823Gh_C_T	2130	i21964Gh_G_A
2009	i38408Gh_G_A	2070	i08366Gh_C_A	2131	i41078Gh_G_T
2010	i12956Gh_G_T	2071	i08198Gh_C_A	2132	i21917Gh_C_T
2011	i45545Gh_G_T	2072	i45708Gh_C_T	2133	i04057Gh_G_A
2012	i22772Gh_C_T	2073	i45565Gh_C_A	2134	i05256Gh_C_T
2013	i19395Gh_C_T	2074	i30785Gh_G_A	2135	i19447Gh_G_T
2014	i12951Gh_G_A	2075	i10828Gh_C_A	2136	i15499Gh_G_A
2015	i39146Gh_G_A	2076	i48293Gh_G_A	2137	i09691Gh_G_A
2016	i19303Gh_G_A	2077	i06247Gh_C_T	2138	i22061Gh_G_A
2017	i47936Gh_C_A	2078	i25947Gh_G_T	2139	i22032Gh_G_T
2018	i42545Gh_G_A	2079	i17005Gh_C_T	2140	i44402Gh_C_T
2019	i14990Gh_C_T	2080	i26286Gh_G_A	2141	i35992Gh_G_A
2020	i45836Gh_C_T	2081	i40195Gh_G_A	2142	i35943Gh_C_T
2021	i36199Gh_C_T	2082	i08638Gh_C_A	2143	i09382Gh_G_A
2022	i41757Gh_G_A	2083	i08643Gh_G_A	2144	i45042Gh_G_T
2023	i07801Gh_C_T	2084	i52743Gb_C_T	2145	i19985Gh_G_A
2024	i52328Gb_C_T	2085	i35875Gh_C_T	2146	i20799Gh_C_T
2025	i34163Gh_C_T	2086	i23637Gh_C_A	2147	i43313Gh_G_A
2026	i51976Gb_G_A	2087	i08652Gh_C_T	2148	i01566Gh_C_T
2027	i16591Gh_C_T	2088	i00937Gh_G_T	2149	i45963Gh_G_T
2028	i40382Gh_G_A	2089	i13010Gh_G_A	2150	i17591Gh_G_A
2029	i24374Gh_G_T	2090	i00200Gh_G_A	2151	i46385Gh_C_T
2030	i02920Gh_G_T	2091	i35403Gh_C_T	2152	i16671Gh_C_T
2031	i36694Gh_C_T	2092	i03742Gh_G_T	2153	i46748Gh_C_T
2032	i02915Gh_C_A	2093	i02117Gh_C_T	2154	i35176Gh_G_A
2033	i17721Gh_G_A	2094	i03741Gh_G_T	2155	i22395Gh_G_T
2034	i05614Gh_C_T	2095	i30448Gh_C_T	2156	i02317Gh_G_A
2035	i25699Gh_C_T	2096	i04801Gh_C_A	2157	i15052Gh_G_A
2036	i46581Gh_G_A	2097	i44464Gh_G_A	2158	i41190Gh_C_T
2037	i25268Gh_C_T	2098	i02115Gh_G_A	2159	i30102Gh_C_A
2038	i44939Gh_C_T	2099	i30327Gh_C_T	2160	i29592Gh_C_T
2039	i49108Gh_C_T	2100	i46940Gh_G_A	2161	i29334Gh_G_A
2040	i05516Gh_C_T	2101	i07723Gh_G_A	2162	i37123Gh_G_A
2041	i07673Gh_G_T	2102	i11625Gh_C_T	2163	i07714Gh_G_A
2042	i11644Gh_C_T	2103	i48155Gh_G_A	2164	i07880Gh_G_A
2043	i18590Gh_G_A	2104	i00968Gh_C_T	2165	i31945Gh_C_T
2044	i42043Gh_G_T	2105	i21340Gh_C_T	2166	i40305Gh_G_A
2045	i25037Gh_G_A	2106	i47493Gh_C_T	2167	i08127Gh_C_T
2046	i39715Gh_G_T	2107	i69207Gh_G_A	2168	i09022Gh_C_A
2047	i18526Gh_G_A	2108	i03745Gh_C_A	2169	i24981Gh_C_T
2048	i39723Gh_C_T	2109	i38813Gh_G_A	2170	i24672Gh_C_T
2049	i39716Gh_C_A	2110	i37629Gh_G_A	2171	i36621Gh_G_A
2050	i21229Gh_G_T	2111	i23990Gh_G_A	2172	i41881Gh_C_A
2051	i11645Gh_G_A	2112	i22761Gh_G_A	2173	i23690Gh_C_A
2052	i36390Gh_C_T	2113	i23486Gh_C_T	2174	i08857Gh_C_T
2053	i45777Gh_G_A	2114	i42236Gh_C_T	2175	i23058Gh_G_A
2054	i24679Gh_G_A	2115	i20282Gh_G_A	2176	i33318Gh_C_T
2055	i35007Gh_C_T	2116	i18592Gh_C_T	2177	i30810Gh_G_A
2056	i27993Gh_C_T	2117	i22545Gh_C_A	2178	i12880Gh_G_A
2057	i27620Gh_G_A	2118	i22533Gh_C_T	2179	i04659Gh_G_A
2058	i02245Gh_G_A	2119	i43613Gh_G_T	2180	i00686Gh_C_T
2059	i44788Gh_G_A	2120	i42148Gh_G_T	2181	i00293Gh_G_A
2060	i44762Gh_G_A	2121	i18352Gh_C_T	2182	i47812Gh_C_T
2061	i43392Gh_C_T	2122	i21833Gh_C_T	2183	i47762Gh_C_T
2062	i09430Gh_G_A	2123	i31819Gh_C_T	2184	i54898Gb_C_T
2063	i01656Gh_C_T	2124	i37009Gh_C_T	2185	i13376Gh_C_T

2186	i04660Gh_C_A	2247	i16420Gh_T_C	2308	i18594Gh_T_C
2187	i23786Gh_G_A	2248	i15482Gh_C_A	2309	i18890Gh_G_A
2188	i52776Gb_C_A	2249	i03825Gh_G_T	2310	i41753Gh_G_A
2189	i08561Gh_C_T	2250	i01143Gh_C_T	2311	i02446Gh_T_C
2190	i23552Gh_C_T	2251	i01068Gh_G_A	2312	i47378Gh_T_C
2191	i12988Gh_C_T	2252	i20640Gh_G_A	2313	i23290Gh_G_A
2192	i02417Gh_G_A	2253	i39481Gh_G_A	2314	i33866Gh_T_C
2193	i23489Gh_G_A	2254	i05721Gh_A_G	2315	i33922Gh_C_A
2194	i51940Gb_C_A	2255	i29806Gh_C_T	2316	i32291Gh_C_T
2195	i23054Gh_G_A	2256	i12307Gh_G_A	2317	i35862Gh_A_G
2196	i43075Gh_G_T	2257	i05146Gh_T_C	2318	i33635Gh_G_A
2197	i57601Gb_C_T	2258	i07211Gh_C_T	2319	i05099Gh_C_A
2198	i09052Gh_G_T	2259	i05082Gh_T_C	2320	i07711Gh_G_A
2199	i44020Gh_C_T	2260	i01578Gh_G_A	2321	i41450Gh_G_A
2200	i44253Gh_C_T	2261	i26910Gh_T_G	2322	i35512Gh_G_A
2201	i04490Gh_G_A	2262	i34407Gh_A_C	2323	i22661Gh_G_A
2202	i02022Gh_C_T	2263	i13014Gh_T_C	2324	i46832Gh_C_T
2203	i21429Gh_G_A	2264	i02246Gh_T_C	2325	i40913Gh_G_T
2204	i01921Gh_T_C	2265	i00258Gh_T_C	2326	i19409Gh_G_A
2205	i24652Gh_G_A	2266	i34900Gh_G_A	2327	i35193Gh_G_A
2206	i04349Gh_T_G	2267	i13051Gh_C_A	2328	i48453Gh_G_A
2207	i12059Gh_G_A	2268	i13050Gh_T_C	2329	i09381Gh_T_C
2208	i02742Gh_G_A	2269	i02367Gh_A_G	2330	i45264Gh_G_A
2209	i65738Gm_C_A	2270	i45038Gh_T_G	2331	i16347Gh_C_T
2210	i34507Gh_T_C	2271	i04850Gh_C_A	2332	i17869Gh_G_A
2211	i06341Gh_T_C	2272	i19918Gh_C_T	2333	i07896Gh_T_C
2212	i29168Gh_G_A	2273	i09432Gh_C_A	2334	i05126Gh_G_A
2213	i38620Gh_T_C	2274	i05501Gh_C_A	2335	i05363Gh_T_C
2214	i07101Gh_T_C	2275	i35627Gh_C_T	2336	i16837Gh_T_C
2215	i07113Gh_T_C	2276	i47169Gh_C_T	2337	i31950Gh_A_G
2216	i07115Gh_G_A	2277	i04027Gh_C_T	2338	i21707Gh_G_A
2217	i03828Gh_T_C	2278	i04025Gh_G_A	2339	i31840Gh_T_C
2218	i12206Gh_T_C	2279	i32346Gh_C_T	2340	i14976Gh_G_A
2219	i64921Gm_A_G	2280	i04035Gh_C_T	2341	i21823Gh_T_C
2220	i40250Gh_G_A	2281	i41531Gh_C_T	2342	i14935Gh_C_A
2221	i02958Gh_T_C	2282	i17919Gh_G_A	2343	i24685Gh_T_C
2222	i04625Gh_T_G	2283	i21204Gh_C_T	2344	i26493Gh_T_C
2223	i40299Gh_T_C	2284	i03727Gh_C_T	2345	i44707Gh_T_C
2224	i08040Gh_G_T	2285	i14778Gh_C_T	2346	i28851Gh_G_A
2225	i25265Gh_T_C	2286	i62777Gt_C_T	2347	i14634Gh_T_C
2226	i02811Gh_G_A	2287	i44507Gh_G_A	2348	i28907Gh_G_A
2227	i03891Gh_G_A	2288	i25943Gh_C_T	2349	i17924Gh_G_A
2228	i09073Gh_G_T	2289	i20834Gh_G_A	2350	i06515Gh_G_A
2229	i19387Gh_A_G	2290	i03740Gh_C_T	2351	i41700Gh_G_A
2230	i32492Gh_A_C	2291	i20833Gh_C_T	2352	i31383Gh_G_A
2231	i19418Gh_C_T	2292	i20794Gh_G_A	2353	i09697Gh_T_C
2232	i45389Gh_A_G	2293	i47482Gh_G_A	2354	i45022Gh_C_A
2233	i48589Gh_T_G	2294	i38630Gh_C_T	2355	i37987Gh_G_A
2234	i14003Gh_T_C	2295	i00400Gh_C_T	2356	i05415Gh_T_C
2235	i01460Gh_G_T	2296	i23635Gh_G_A	2357	i23096Gh_C_A
2236	i00597Gh_G_A	2297	i03391Gh_C_T	2358	i10042Gh_T_C
2237	i19997Gh_A_C	2298	i03389Gh_G_A	2359	i12425Gh_A_G
2238	i32519Gh_G_A	2299	i39462Gh_T_C	2360	i09376Gh_A_G
2239	i20533Gh_G_T	2300	i48070Gh_C_A	2361	i23962Gh_A_G
2240	i33003Gh_G_T	2301	i24008Gh_G_T	2362	i44449Gh_A_G
2241	i17559Gh_G_A	2302	i07780Gh_G_A	2363	i34191Gh_C_T
2242	i14000Gh_G_A	2303	i46299Gh_C_A	2364	i34190Gh_C_T
2243	i15753Gh_G_A	2304	i43098Gh_G_A	2365	i28182Gh_C_T
2244	i10058Gh_G_A	2305	i18378Gh_G_A	2366	i25871Gh_G_T
2245	i11551Gh_T_C	2306	i04734Gh_T_C	2367	i51950Gb_T_C
2246	i16592Gh_T_C	2307	i12610Gh_T_C	2368	i39493Gh_T_C

2369	i03640Gh_G_A	2430	i05722Gh_C_A	2491	i02109Gh_G_T
2370	i42415Gh_T_C	2431	i40903Gh_T_C	2492	i36644Gh_G_A
2371	i43850Gh_G_A	2432	i37461Gh_T_C	2493	i21503Gh_T_C
2372	i05514Gh_T_G	2433	i01154Gh_T_C	2494	i33527Gh_T_C
2373	i03862Gh_G_T	2434	i32454Gh_T_C	2495	i46991Gh_C_T
2374	i03868Gh_G_A	2435	i44843Gh_T_G	2496	i33191Gh_T_C
2375	i12327Gh_C_A	2436	i07541Gh_T_C	2497	i24889Gh_A_C
2376	i03819Gh_G_A	2437	i40557Gh_A_G	2498	i47655Gh_T_C
2377	i03892Gh_G_A	2438	i21379Gh_T_G	2499	i28767Gh_A_G
2378	i44933Gh_A_G	2439	i44475Gh_T_G	2500	i21729Gh_G_A
2379	i24780Gh_G_A	2440	i25466Gh_T_C	2501	i24847Gh_A_G
2380	i40271Gh_C_T	2441	i42576Gh_T_C	2502	i21599Gh_T_C
2381	i01877Gh_G_A	2442	i21309Gh_A_G	2503	i28328Gh_G_A
2382	i23192Gh_T_C	2443	i20998Gh_T_C	2504	i28448Gh_G_A
2383	i10805Gh_T_C	2444	i26071Gh_G_A	2505	i21097Gh_G_A
2384	i46697Gh_G_A	2445	i44602Gh_A_G	2506	i44250Gh_A_G
2385	i05579Gh_C_T	2446	i45758Gh_A_G	2507	i36438Gh_C_T
2386	i18208Gh_C_A	2447	i35912Gh_G_A	2508	i05346Gh_T_C
2387	i12083Gh_G_A	2448	i25438Gh_G_A	2509	i08558Gh_T_C
2388	i31963Gh_A_G	2449	i45663Gh_G_A	2510	i41598Gh_C_A
2389	i10803Gh_T_C	2450	i45982Gh_T_C	2511	i41356Gh_T_C
2390	i12725Gh_A_G	2451	i18353Gh_T_C	2512	i22338Gh_G_T
2391	i38110Gh_T_G	2452	i45299Gh_C_T	2513	i02445Gh_G_A
2392	i12073Gh_T_C	2453	i00123Gh_G_A	2514	i02448Gh_T_C
2393	i09032Gh_T_G	2454	i36024Gh_A_G	2515	i23424Gh_A_G
2394	i13032Gh_C_A	2455	i50791Gb_T_C	2516	i01809Gh_G_A
2395	i05536Gh_G_A	2456	i22539Gh_A_G	2517	i46127Gh_T_C
2396	i29436Gh_G_A	2457	i24091Gh_C_T	2518	i47518Gh_G_T
2397	i35264Gh_G_A	2458	i38372Gh_T_C	2519	i48208Gh_T_C
2398	i13578Gh_G_A	2459	i22660Gh_A_C	2520	i14974Gh_T_C
2399	i03415Gh_C_T	2460	i43380Gh_A_G	2521	i47372Gh_T_C
2400	i06343Gh_C_T	2461	i33799Gh_T_C	2522	i33195Gh_A_G
2401	i22630Gh_C_T	2462	i23979Gh_G_T	2523	i10719Gh_T_C
2402	i35706Gh_C_T	2463	i13284Gh_G_T	2524	i38488Gh_T_C
2403	i23966Gh_C_T	2464	i13279Gh_C_A	2525	i16237Gh_T_C
2404	i13296Gh_C_A	2465	i13278Gh_C_A	2526	i35175Gh_G_A
2405	i08076Gh_C_T	2466	i50275Gb_A_G	2527	i27906Gh_T_G
2406	i05145Gh_C_T	2467	i13253Gh_A_G	2528	i48421Gh_A_G
2407	i08367Gh_C_T	2468	i24445Gh_C_T	2529	i29467Gh_G_A
2408	i01878Gh_G_T	2469	i22891Gh_A_G	2530	i51918Gb_T_C
2409	i12058Gh_A_G	2470	i22903Gh_T_C	2531	i51919Gb_G_A
2410	i34638Gh_T_C	2471	i36229Gh_T_G	2532	i39665Gh_G_A
2411	i20296Gh_G_A	2472	i23002Gh_T_C	2533	i03746Gh_G_T
2412	i48272Gh_T_G	2473	i42304Gh_C_A	2534	i26441Gh_G_A
2413	i25489Gh_T_C	2474	i58619Gb_G_A	2535	i05183Gh_G_A
2414	i03875Gh_G_A	2475	i34622Gh_T_G	2536	i18593Gh_A_G
2415	i46971Gh_T_G	2476	i23050Gh_T_C	2537	i30891Gh_T_G
2416	i35321Gh_C_T	2477	i34607Gh_A_G	2538	i12173Gh_G_A
2417	i15940Gh_G_A	2478	i32290Gh_G_T	2539	i30982Gh_T_C
2418	i08084Gh_C_A	2479	i24369Gh_T_C	2540	i12865Gh_A_C
2419	i40666Gh_T_C	2480	i38469Gh_T_C	2541	i32349Gh_T_C
2420	i27321Gh_T_C	2481	i22134Gh_T_C	2542	i43594Gh_T_C
2421	i26540Gh_G_T	2482	i24932Gh_T_C	2543	i43019Gh_C_T
2422	i11237Gh_A_C	2483	i27433Gh_T_C	2544	i03823Gh_G_A
2423	i12310Gh_G_A	2484	i27434Gh_G_T	2545	i43662Gh_G_A
2424	i18359Gh_T_C	2485	i41394Gh_G_T	2546	i42707Gh_G_A
2425	i03644Gh_T_C	2486	i46723Gh_C_T	2547	i22640Gh_A_G
2426	i09437Gh_T_C	2487	i32359Gh_C_T	2548	i48404Gh_A_G
2427	i19976Gh_T_C	2488	i27806Gh_A_C	2549	i22158Gh_G_A
2428	i41324Gh_A_G	2489	i36049Gh_T_C	2550	i30991Gh_A_C
2429	i08075Gh_C_A	2490	i44330Gh_C_T	2551	i08899Gh_T_G

2552	i42616Gh_C_T	2613	i17897Gh_T_C	2674	i02890Gh_T_C
2553	i08414Gh_T_C	2614	i12962Gh_A_G	2675	i38324Gh_A_G
2554	i00595Gh_A_C	2615	i01697Gh_A_G	2676	i01129Gh_T_C
2555	i12876Gh_T_C	2616	i22718Gh_T_C	2677	i37127Gh_G_A
2556	i13544Gh_A_G	2617	i13342Gh_G_A	2678	i09556Gh_G_A
2557	i02328Gh_G_A	2618	i13534Gh_T_C	2679	i19994Gh_T_C
2558	i05394Gh_G_A	2619	i17273Gh_C_T	2680	i06346Gh_A_G
2559	i12948Gh_T_C	2620	i00616Gh_C_A	2681	i49059Gh_A_G
2560	i04558Gh_G_A	2621	i00619Gh_G_A	2682	i48592Gh_A_G
2561	i33892Gh_G_A	2622	i13850Gh_C_T	2683	i25821Gh_T_C
2562	i29987Gh_G_A	2623	i48273Gh_C_T	2684	i09605Gh_T_C
2563	i05391Gh_A_C	2624	i22041Gh_G_A	2685	i29128Gh_G_A
2564	i47714Gh_G_A	2625	i11136Gh_C_T	2686	i25212Gh_C_T
2565	i60766Gt_C_T	2626	i37245Gh_G_A	2687	i20232Gh_C_T
2566	i49670Gh_C_T	2627	i25711Gh_G_T	2688	i07871Gh_G_A
2567	i03714Gh_G_T	2628	i06928Gh_C_T	2689	i29113Gh_C_A
2568	i42051Gh_C_A	2629	i36800Gh_C_T	2690	i45582Gh_A_G
2569	i37135Gh_T_G	2630	i30439Gh_G_A	2691	i00884Gh_A_G
2570	i49246Gh_C_T	2631	i31312Gh_G_A	2692	i26429Gh_G_T
2571	i00167Gh_T_C	2632	i27358Gh_C_T	2693	i00985Gh_A_G
2572	i00683Gh_C_T	2633	i02812Gh_C_T	2694	i15181Gh_A_C
2573	i18044Gh_A_G	2634	i28475Gh_C_A	2695	i17501Gh_G_A
2574	i46214Gh_A_G	2635	i07104Gh_G_T	2696	i27635Gh_T_C
2575	i17560Gh_A_G	2636	i04316Gh_G_T	2697	i07506Gh_C_T
2576	i19735Gh_A_G	2637	i12329Gh_A_G	2698	i00993Gh_A_G
2577	i46384Gh_A_G	2638	i04312Gh_C_T	2699	i10043Gh_A_G
2578	i39627Gh_A_C	2639	i17649Gh_A_G	2700	i15440Gh_C_A
2579	i41333Gh_C_T	2640	i02480Gh_C_T	2701	i27698Gh_T_C
2580	i08138Gh_G_A	2641	i38553Gh_G_A	2702	i00997Gh_G_A
2581	i01572Gh_A_G	2642	i05147Gh_C_T	2703	i33332Gh_T_C
2582	i41209Gh_C_T	2643	i35519Gh_C_T	2704	i46667Gh_T_C
2583	i16779Gh_A_G	2644	i13965Gh_G_T	2705	i06918Gh_T_C
2584	i39710Gh_T_C	2645	i03859Gh_C_T	2706	i39079Gh_A_G
2585	i17562Gh_T_C	2646	i11647Gh_T_C	2707	i32212Gh_A_G
2586	i45478Gh_T_C	2647	i19759Gh_G_A	2708	i03460Gh_T_C
2587	i27108Gh_G_A	2648	i01900Gh_G_T	2709	i28133Gh_G_A
2588	i44772Gh_C_T	2649	i35037Gh_A_G	2710	i01095Gh_G_A
2589	i35898Gh_T_G	2650	i13517Gh_G_A	2711	i36939Gh_T_C
2590	i26477Gh_T_C	2651	i26119Gh_T_C	2712	i06930Gh_A_C
2591	i39441Gh_G_A	2652	i32675Gh_G_T	2713	i36953Gh_T_C
2592	i15388Gh_G_A	2653	i14111Gh_G_T	2714	i46871Gh_G_A
2593	i46739Gh_T_C	2654	i45453Gh_A_C	2715	i03443Gh_G_A
2594	i46740Gh_T_G	2655	i05580Gh_T_C	2716	i39278Gh_G_A
2595	i38921Gh_C_T	2656	i35461Gh_T_C	2717	i01344Gh_A_G
2596	i25995Gh_A_G	2657	i26272Gh_A_G	2718	i17505Gh_G_T
2597	i25798Gh_A_G	2658	i19286Gh_C_T	2719	i38776Gh_A_G
2598	i33180Gh_A_G	2659	i19071Gh_C_T	2720	i15179Gh_A_G
2599	i01121Gh_T_C	2660	i48156Gh_A_G	2721	i18351Gh_G_A
2600	i40795Gh_C_A	2661	i35047Gh_A_G	2722	i45804Gh_G_A
2601	i24929Gh_G_T	2662	i32691Gh_G_T	2723	i00878Gh_T_G
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2739	i06855Gh_C_A	2797	i34223Gh_T_G	2855	i13085Gh_C_T
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2744	i08087Gh_G_A	2802	i34219Gh_A_G	2860	i12981Gh_A_C
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2746	i09380Gh_T_C	2804	i12531Gh_T_C	2862	i06602Gh_C_T
2747	i00326Gh_T_C	2805	i37162Gh_T_G	2863	i44644Gh_A_G
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2749	i00291Gh_C_A	2807	i13303Gh_G_A	2865	i18550Gh_C_T
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2968	i43950Gh_T_G		
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ANEXO II

PROTOCOLO GUÍA PARA LA PRESENTACIÓN DE INFORMACIÓN DE GENOTIPADO PARA VARIEDADES DE ALGODÓN PARA TODAS AQUELLAS VARIEDADES PRESENTADAS MEDIANTE PLATAFORMA DE TRÁMITES A DISTANCIA (TAD).

Enviar la información en formato electrónico mediante TAD, teniendo en cuenta lo siguiente:

- Incorporar al trámite correspondiente de solicitud de inscripción de la variedad un archivo Excel como adjunto en información adicional.

-Los marcadores tienen un orden establecido en la Base de Datos, por lo tanto, al momento de presentar los datos, se deberá conservar el orden de los marcadores según lo indicado en el Anexo I.

-El archivo Excel deberá contener en las filas el nombre del marcador y en las columnas el nombre de la variedad. El contenido de la tabla serán los datos de los alelos.

-El dato de los alelos que corresponden a una variedad y marcador, se deben informar en la misma casilla, sin códigos, signos u otras nomenclaturas. La lectura de los alelos debe coincidir con los alelos que se indican para el marcador junto a su nombre.

PARA TODAS AQUELLAS VARIEDADES QUE NO FUERON PRESENTADAS MEDIANTE PLATAFORMA DE TRÁMITES A DISTANCIA (TAD).

Enviar la información en formato electrónico a la casilla de correo **variedades@inase.gob.ar**, teniendo en cuenta lo detallado a continuación:

-Los marcadores tienen un orden establecido en la Base de Datos, por lo tanto, al momento de presentar los datos se deberá conservar el orden de los marcadores según lo indicado en el Anexo I.

-El archivo Excel deberá contener en las filas el nombre del marcador y en las columnas el nombre de la variedad. El contenido de la tabla serán los datos de los alelos.

-El dato de los alelos que corresponden a una variedad y marcador, se deben informar en la misma casilla, sin códigos, signos u otras nomenclaturas. La lectura de los alelos debe coincidir con los alelos que se indican para el marcador junto a su nombre.

- Nota firmada por el Representante legalmente autorizado y el Ingeniero Agrónomo Patrocinante, indicando desde que casilla de correo se envía la información, cómo se denomina el archivo que contiene la misma, y el listado de nombres de las variedades para las cuales hace entrega de información.



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Número:

Referencia: Anexo II EX-2021-51646765--APN-DA#INASE

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