

LIST OF 200 SNP APPROVED BY ICAR FOR PARENTAGE VERIFICATION

*Note: SNP highlighted in yellow have been identified as problematic
and must be excluded from any use for parentage analysis*

SNP Name	Chromosome	Positior	rs	ss
ARS-BFGL-BAC-27364	1	8437530	rs110487850	ss105254853
ARS-BFGL-NGS-86662	1	40206017	rs110949105	ss86316540
ARS-USMARC-PARENT-AY761135-RS29003723	1	127426647	rs29003723	ss38341018
ARS-USMARC-PARENT-AY943841-RS17871566	1	138583183	rs17871566	ss28451907
ARS-USMARC-PARENT-DQ381153-RS29012842	1	3249057	rs29012842	ss38323940
ARS-USMARC-PARENT-DQ404149-NO-RS	1	99314925	rs42939801	ss117966457
ARS-USMARC-PARENT-DQ404150-RS29012530	1	59409838	rs29012530	ss38323621
ARS-USMARC-PARENT-DQ404151-RS29019282	1	151349514	rs29019282	ss38327170
ARS-USMARC-PARENT-DQ451555-RS29010795	1	29524658	rs29010795	ss38325080
BTB-01057979	1	114085424	rs42223561	ss63390705
BTB-01285245	1	63277846	rs42411615	ss63968561
ARS-BFGL-BAC-35552	2	12823369	rs41256483	ss105263926
ARS-BFGL-NGS-39978	2	5757355	rs110425983	ss86287493
ARS-BFGL-NGS-67146	2	118773633	rs109136926	ss86297381
ARS-USMARC-PARENT-AY776154-NO-RS	2	26997623	rs41257512	ss117966901
ARS-USMARC-PARENT-AY841151-RS29003466	2	45832887	rs29003466	ss38340727
ARS-USMARC-PARENT-DQ404152-RS29022245	2	5306838	rs29022245	ss38330740
ARS-USMARC-PARENT-DQ786757-RS29019900	2	111155237	rs29019900	ss38327796
HAPMAP46653-BTA-47447	2	41938704	rs41573026	ss61467906
HAPMAP59876-RS29018046	2	13853729	rs29018046	ss38335133
ARS-BFGL-NGS-38423	3	12709854	rs110643545	ss86285582
ARS-USMARC-PARENT-AY842472-RS29001941	3	40399136	rs29001941	ss38339339
ARS-USMARC-PARENT-AY842473-RS29001956	3	49703647	rs29001956	ss38339354
ARS-USMARC-PARENT-AY842474-RS29003226	3	51976646	rs29003226	ss38340448
ARS-USMARC-PARENT-DQ435443-RS29010802	3	58040470	rs29010802	ss38325087
ARS-USMARC-PARENT-DQ489377-RS29026932	3	98188384	rs29026932	ss38329318
ARS-USMARC-PARENT-DQ647187-RS29010510	3	21146877	rs29010510	ss38325021
ARS-USMARC-PARENT-DQ839235-RS29012691	3	116448759	rs29012691	ss38323789
ARS-BFGL-NGS-58613	4	78609385	rs42254761	ss86288950
ARS-USMARC-PARENT-AY842475-RS29002127	4	20181749	rs29002127	ss38339556
ARS-USMARC-PARENT-DQ647186-RS29014143	4	17200594	rs29014143	ss38323045
BTB-00188171	4	57787437	rs43396375	ss65312019
BTB-01478115	4	42103377	rs42595691	ss64353011
HAPMAP39425-BTA-70290	4	10737673	rs41586923	ss61489805
HAPMAP42648-BTA-71195	4	71061224	rs41653000	ss61554558
HAPMAP49452-BTA-112834	4	72987997	rs41569794	ss61473375
HAPMAP54547-RS29012198	4	110776624	rs29012198	ss38323285
ARS-BFGL-NGS-111053	5	72264603	rs110813850	ss86339707
ARS-BFGL-NGS-15506	5	88334676	rs109448272	ss86285779
ARS-USMARC-PARENT-AY844963-RS17871338	5	98102349	rs17871338	ss28451679
ARS-USMARC-PARENT-DQ468384-RS29003967	5	113137320	rs17871378	ss28451719
ARS-USMARC-PARENT-DQ470475-NO-RS	5	7651053	rs43710106	ss117967919
ARS-USMARC-PARENT-DQ500958-NO-RS	5	27825118	rs43708500	ss117967922
ARS-USMARC-PARENT-DQ647189-RS29012226	5	63273386	rs29012226	ss38323313
ARS-USMARC-PARENT-DQ846688-RS29023691	5	119261609	rs29023691	ss38336986
BTA-73768-NO-RS	5	67031023	rs41647805	ss61555892
ARS-BFGL-NGS-106015	6	61199572	rs109496638	ss86287153
ARS-BFGL-NGS-119662	6	118292328	rs108959343	ss86340083
ARS-USMARC-PARENT-AY849381-RS29003287	6	23562312	rs29003287	ss38340521
ARS-USMARC-PARENT-DQ647190-RS29013632	6	13897068	rs29013632	ss38322528
ARS-USMARC-PARENT-DQ789028-RS29017713	6	46936182	rs29017713	ss38334020
BTB-01902778	6	114165533	rs43014084	ss64919224
HAPMAP43142-BTA-107561	6	29556343	rs41567696	ss61472156
HAPMAP51527-BTA-97415	6	44461834	rs41665299	ss61568611
ARS-BFGL-NGS-101456	7	82825197	rs43526009	ss86330195

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ARS-BFGL-NGS-15731	7	96936145	rs110220596	ss86301690
ARS-BFGL-NGS-27577	7	26066004	rs110735554	ss86284992
ARS-BFGL-NGS-72471	7	103375625	rs109989231	ss86302621
ARS-USMARC-PARENT-DQ650635-RS29012174	7	55116289	rs29012174	ss38323259
ARS-USMARC-PARENT-DQ786758-RS2902443C	7	18454636	rs29024430	ss38334530
ARS-USMARC-PARENT-DQ786759-RS29026696	7	94259472	rs29026696	ss38329081
ARS-USMARC-PARENT-DQ888309-RS29013741	7	8272794	rs29013741	ss38322638
ARS-USMARC-PARENT-DQ916057-RS29009979	7	81591587	rs29009979	ss38324475
HAPMAP43057-BTA-80741	7	13279972	rs41588251	ss61492499
HAPMAP60017-RS29023471	7	81668727	rs29023471	ss38336762
ARS-USMARC-PARENT-AY850194-NO-RS	8	59996431	rs41255750	ss117969490
ARS-USMARC-PARENT-DQ650636-RS29024525	8	28799249	rs29024525	ss38334625
ARS-USMARC-PARENT-DQ674265-RS29011266	8	106174871	rs29011266	ss38325554
ARS-USMARC-PARENT-DQ837644-RS29010468	8	88974063	rs29010468	ss38324977
ARS-USMARC-PARENT-DQ916058-RS29016146	8	1554706	rs29016146	ss38332645
HAPMAP55441-RS29010990	8	103137122	rs29010990	ss38325276
ARS-BFGL-NGS-1474C	9	14436985	rs109548782	ss86311604
ARS-BFGL-NGS-3164C	9	52430564	rs108961088	ss86289247
ARS-BFGL-NGS-93119	9	28149131	rs109133051	ss86323810
ARS-USMARC-PARENT-DQ786765-RS29009858	9	98483346	rs29009858	ss38324353
BTB-00394801	9	59383405	rs43599414	ss65518069
HAPMAP54313-RS29012632	9	83320792	rs29012632	ss38323727
ARS-BFGL-NGS-111114	10	84446642	rs43645607	ss86341013
ARS-BFGL-NGS-31807	10	61684704	rs43638065	ss86311676
ARS-BFGL-NGS-70946	10	14574453	rs109933901	ss86300858
ARS-USMARC-PARENT-DQ786761-RS2901284C	10	44103665	rs29012840	ss38323938
ARS-USMARC-PARENT-DQ786762-RS29010772	10	81572252	rs29010772	ss38325057
ARS-USMARC-PARENT-DQ786766-RS2901207C	10	3530271	rs29012070	ss38323155
ARS-USMARC-PARENT-DQ984825-RS29012457	10	98230479	rs29012457	ss38323545
ARS-USMARC-PARENT-DQ984827-RS29012019	10	55611885	rs29012019	ss38323104
BTB-00420215	10	44920804	rs43625528	ss65543436
ARS-BFGL-NGS-117322	11	77884744	rs109998259	ss86339948
ARS-BFGL-NGS-42283	11	95543411	rs109007372	ss86295624
ARS-BFGL-NGS-76191	11	62732451	rs110846944	ss86306783
ARS-USMARC-PARENT-AY851162-NO-RS	11	46411100	rs41255717	ss117970419
ARS-USMARC-PARENT-AY851163-RS17871661	11	103047474	rs17871661	ss28452002
ARS-USMARC-PARENT-DQ837643-RS29018818	11	66341589	rs29018818	ss38335912
ARS-USMARC-PARENT-DQ837645-RS2901587C	11	24553007	rs29015870	ss38332364
BTA-11701-RS29017459	11	61989432	rs29017459	ss38333753
BTA-92021-NO-RS	11	9385008	rs41663009	ss61565762
HAPMAP40148-BTA-92999	11	36713471	rs41592395	ss61495728
ARS-BFGL-NGS-112325	12	79643103	rs110072997	ss86337040
ARS-USMARC-PARENT-DQ786763-RS29020472	12	11824653	rs29020472	ss38328160
ARS-USMARC-PARENT-DQ786764-NO-RS	12	25668974	rs109943112	ss117970659
BTA-30857-NO-RS	12	80058952	rs41579524	ss61479561
BTB-01980499	12	61345454	rs43084864	ss64996227
ARS-BFGL-NGS-112094	13	69187742	rs109458348	ss86339335
ARS-USMARC-PARENT-AY853302-NO-RS	13	47397987	rs41257524	ss117970873
ARS-USMARC-PARENT-AY853303-NO-RS	13	75383374	rs41257490	ss117970875
ARS-USMARC-PARENT-EF026087-RS29011643	13	1982209	rs29011643	ss38325939
ARS-USMARC-PARENT-EF034081-RS29009668	13	25606469	rs29009668	ss38324161
HAPMAP43792-BTA-122725	13	83437845	rs41620645	ss61524403
ARS-BFGL-NGS-42505	14	62478242	rs109614825	ss86323142
ARS-USMARC-PARENT-DQ846690-NO-RS	14	10171919	rs43710049	ss117971671
ARS-USMARC-PARENT-DQ846691-RS29019814	14	48380429	rs29019814	ss38327708
ARS-USMARC-PARENT-DQ846692-RS29010281	14	80082923	rs29010281	ss38324786
ARS-USMARC-PARENT-DQ984826-RS29027559	14	27751888	rs29027559	ss38329949
ARS-BFGL-NGS-115514	15	38003134	rs109164374	ss86339408

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ARS-BFGL-NGS-55943	15	64628706	rs110196141	ss86285855
ARS-USMARC-PARENT-DQ866817-NO-RS	15	38078775	rs43706884	ss117971908
ARS-USMARC-PARENT-DQ866818-RS29011701	15	79187295	rs29011701	ss38325997
ARS-USMARC-PARENT-EF042090-NO-RS	15	21207529	rs43708441	ss117971911
BTA-37062-NO-RS	15	51528617	rs41632769	ss61536141
BTB-01371672	15	50566485	rs42492955	ss64140877
ARS-BFGL-BAC-19454	16	13695211	rs109516152	ss105246072
ARS-BFGL-NGS-117319	16	12238539	rs42413708	ss86335720
ARS-USMARC-PARENT-DQ846693-RS29017621	16	9855276	rs29017621	ss38333927
HAPMAP40729-BTA-40319	16	19882683	rs41635414	ss61537824
HAPMAP47281-BTA-40051	16	72931875	rs41582312	ss61481907
ARS-BFGL-NGS-11383	17	12891997	rs110577061	ss86325850
ARS-BFGL-NGS-118319	17	9279323	rs110473808	ss86335543
ARS-BFGL-NGS-9921C	17	52740918	rs110578763	ss86329428
ARS-USMARC-569	17	30360942	rs109650557	ss117962557
ARS-USMARC-PARENT-AY858890-RS29002256	17	29936157	rs29002256	ss38339696
ARS-USMARC-PARENT-AY860426-NO-RS	17	56512519	rs41255724	ss117972311
ARS-USMARC-PARENT-DQ381152-RS29002408	17	17616950	rs29002408	ss38339879
ARS-USMARC-PARENT-DQ888310-RS29012422	17	991486	rs29012422	ss38323509
HAPMAP51227-BTA-41809	17	67216420	rs41634345	ss61538562
ARS-BFGL-NGS-118340	18	26844474	rs110706775	ss86338640
ARS-BFGL-NGS-3862C	18	64382705	rs41902634	ss86313444
ARS-USMARC-PARENT-AY863214-RS17871744	18	46647177	rs17871744	ss28452085
ARS-USMARC-PARENT-AY914316-RS17871403	18	48812014	rs17871403	ss28451744
ARS-USMARC-PARENT-DQ916059-RS29009907	18	23426214	rs29009907	ss38324402
ARS-USMARC-PARENT-EF028073-RS29014953	18	1839733	rs29014953	ss38326646
HAPMAP54020-RS29023153	18	6776532	rs29023153	ss38336442
ARS-BFGL-NGS-36513	19	17236707	rs110803034	ss86327338
ARS-BFGL-NGS-57711	19	40692429	rs110925558	ss86288575
ARS-USMARC-PARENT-AY916666-NO-RS	19	44799390	rs41257460	ss117972636
ARS-USMARC-PARENT-DQ888311-RS29017313	19	8505317	rs29017313	ss38333605
ARS-USMARC-PARENT-EF026084-RS2902538C	19	15345312	rs29025380	ss38331266
ARS-USMARC-PARENT-EF164803-RS29011141	19	55174260	rs29011141	ss38325429
BTB-01416427	19	52911677	rs42537334	ss64230252
HAPMAP50598-BTA-122724	19	4670556	rs41575075	ss61475502
ARS-BFGL-NGS-96125	20	58449212	rs42640153	ss86326564
ARS-USMARC-PARENT-AY919868-RS29002211	20	46066109	rs29002211	ss38339648
ARS-USMARC-PARENT-DQ888313-NO-RS	20	17837675	rs43708490	ss117972867
HAPMAP36588-SCAFFOLD90561_9460	20	2289049	rs29023669	ss117972848
HAPMAP46550-BTA-103548	20	30928803	rs41615770	ss61513810
ARS-BFGL-NGS-111076	21	21220448	rs110551361	ss86336856
ARS-BFGL-NGS-26517	21	52139183	rs109651210	ss86291238
ARS-USMARC-PARENT-DQ995976-NO-RS	21	3088886	rs43706859	ss117973059
ARS-USMARC-PARENT-EF026085-RS29021607	21	65198296	rs29021607	ss38330092
ARS-USMARC-PARENT-EF093511-RS29012316	21	26620013	rs29012316	ss38323403
BTB-00818821	21	40408803	rs41981646	ss62736870
HAPMAP31098-BTA-136127	21	62028408	rs109479519	ss117972951
HAPMAP39461-BTA-109898	21	27927781	rs41611358	ss61517053
ARS-BFGL-NGS-24419	22	11756783	rs42002380	ss86317653
ARS-USMARC-PARENT-DQ990832-RS29015065	22	11038205	rs29015065	ss38326759
ARS-USMARC-PARENT-EF034082-RS29013532	22	56526462	rs29013532	ss38322427
ARS-USMARC-PARENT-EF093509-RS2901517C	22	22573121	rs29015170	ss38326868
BTA-100621-NO-RS	22	25598780	rs41611675	ss61512369
HAPMAP43953-BTA-83292	22	54103673	rs41656801	ss61561086
UA-IFASA-6532	22	21770149	rs41640891	ss117965542
ARS-USMARC-PARENT-AY929334-NO-RS	23	7219975	rs41255852	ss117973373
ARS-USMARC-PARENT-AY937242-RS17872223	23	27306795	rs17872223	ss28452564
ARS-USMARC-PARENT-EF089234-RS2902087C	23	50884052	rs29020870	ss38328561

SNP_Name	Chromosome	Positior	rs	ss
HAPMAP35535-SCAFFOLD86180_8791	23	41700829	rs29023461	ss117973345
ARS-USMARC-PARENT-AY939849-RS17870274	24	56415794	rs17870274	ss28450615
ARS-USMARC-PARENT-DQ990833-RS29010147	24	15447771	rs29010147	ss38324647
ARS-USMARC-PARENT-DQ995977-RS29020834	24	1854953	rs29020834	ss38328525
HAPMAP34424-BES10_CONTIG566_926	24	6408329	rs43708462	ss66538092
ARS-BFGL-NGS-114006	25	20114319	rs109737083	ss86339571
ARS-USMARC-PARENT-AY941204-RS17872131	25	14683151	rs17872131	ss28452472
ARS-USMARC-PARENT-EF034083-RS29018286	25	3126438	rs29018286	ss38335376
HAPMAP41591-BTA-59790	25	27912102	rs41649671	ss117973994
ARS-BFGL-NGS-10035	26	39952154	rs110008575	ss86293049
ARS-USMARC-PARENT-DQ990834-RS29013727	26	8221270	rs29013727	ss38322624
ARS-USMARC-PARENT-EF034086-NO-RS	26	38233337	rs43708440	ss117974174
ARS-USMARC-PARENT-EF150946-RS29023666	26	13229219	rs29023666	ss38336959
ARS-BFGL-NGS-102169	27	12930436	rs110612889	ss86332885
ARS-USMARC-PARENT-EF034084-RS29016185	27	21480570	rs29016185	ss38332685
ARS-USMARC-PARENT-EF093512-RS29013546	27	15141319	rs29013546	ss38322441
ARS-USMARC-PARENT-EF141102-RS29015783	27	37513923	rs29015783	ss38332274
HAPMAP24215-BTA-163266	27	10764825	rs109704141	ss117974193
HAPMAP51908-BTA-63031	27	41049981	rs41648007	ss61550226
ARS-BFGL-NGS-7633C	28	33449126	rs109978585	ss86306259
ARS-USMARC-PARENT-EF026086-RS29013660	28	35331560	rs29013660	ss38322556
ARS-USMARC-PARENT-EF034085-RS29025677	28	5913226	rs29025677	ss38331569
ARS-USMARC-PARENT-EF034087-NO-RS	28	16097749	rs110665639	ss117974397
ARS-USMARC-PARENT-EF042091-RS29014974	28	44261945	rs29014974	ss38326667
HAPMAP52240-RS29013844	28	20453054	rs29013844	ss38322744
ARS-USMARC-PARENT-AY856094-RS17871190	29	9160939	rs17871190	ss28451531
ARS-USMARC-PARENT-DQ404153-NO-RS	29	44756502	rs110843280	ss117974529
ARS-USMARC-PARENT-EF034080-RS29024749	29	28647816	rs29024749	ss38334851
UA-IFASA-5034	29	29052623	rs29024763	ss117965805