

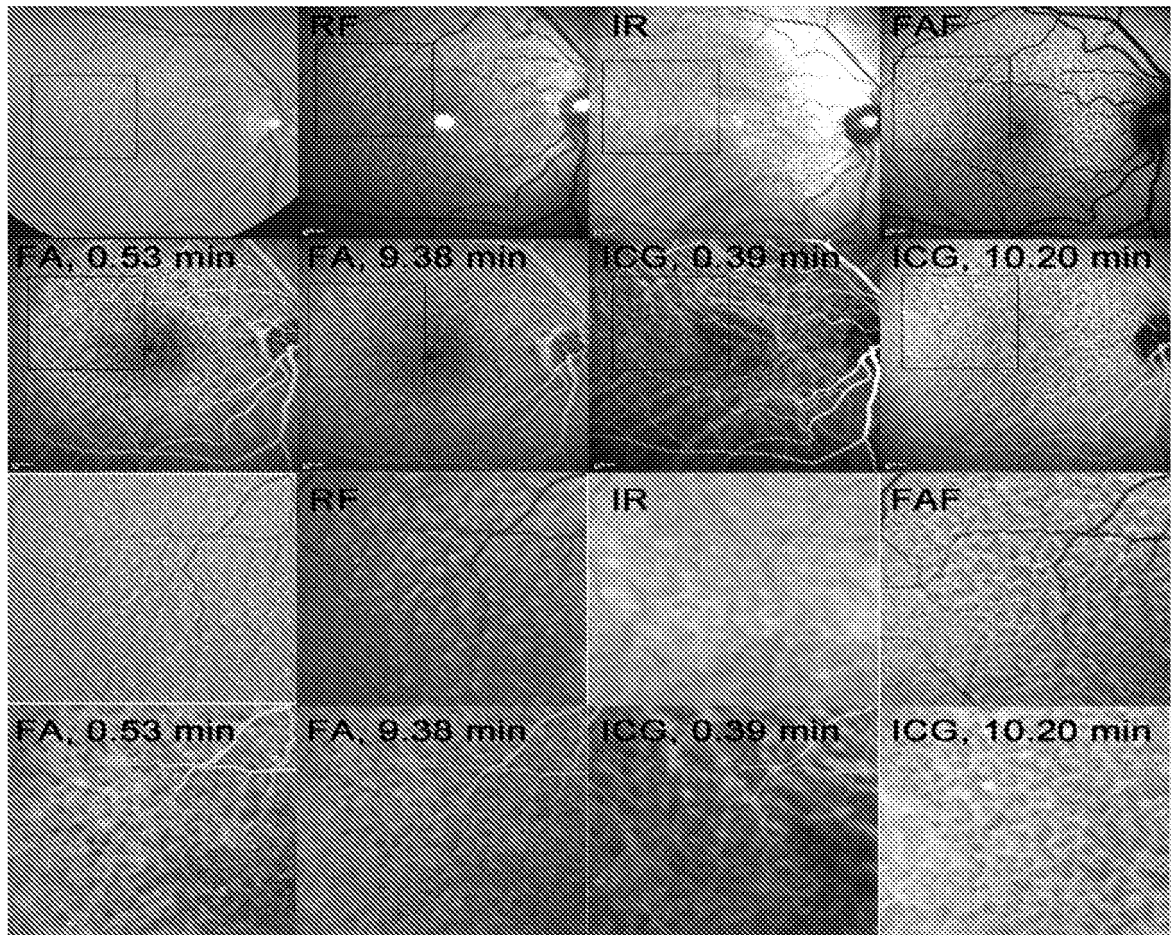


FIG. 1

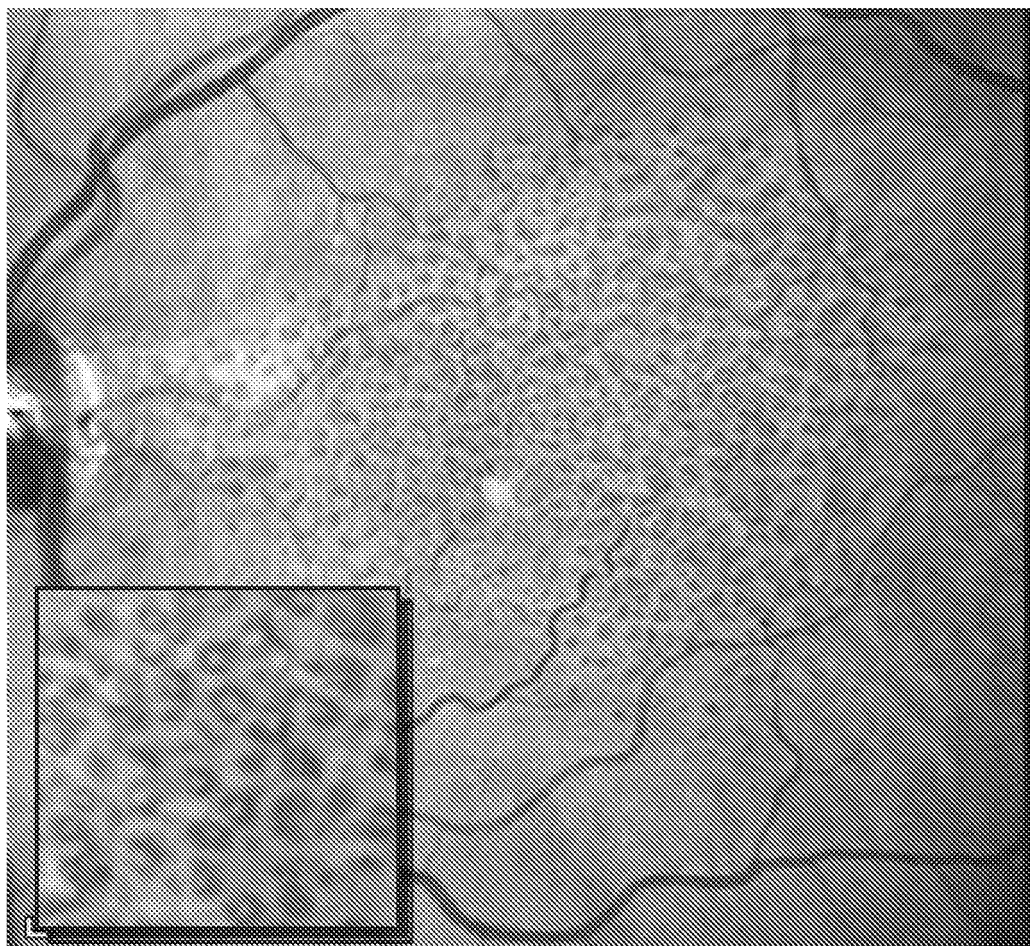


FIG.2

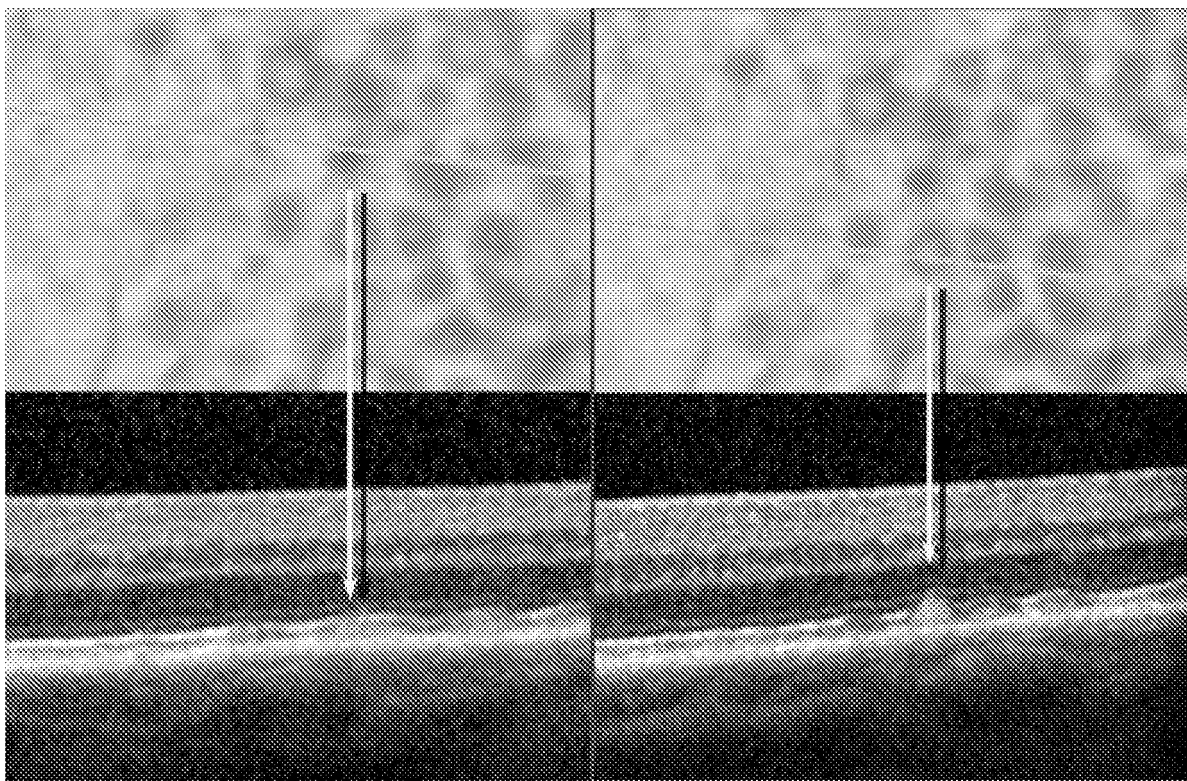


FIG. 3

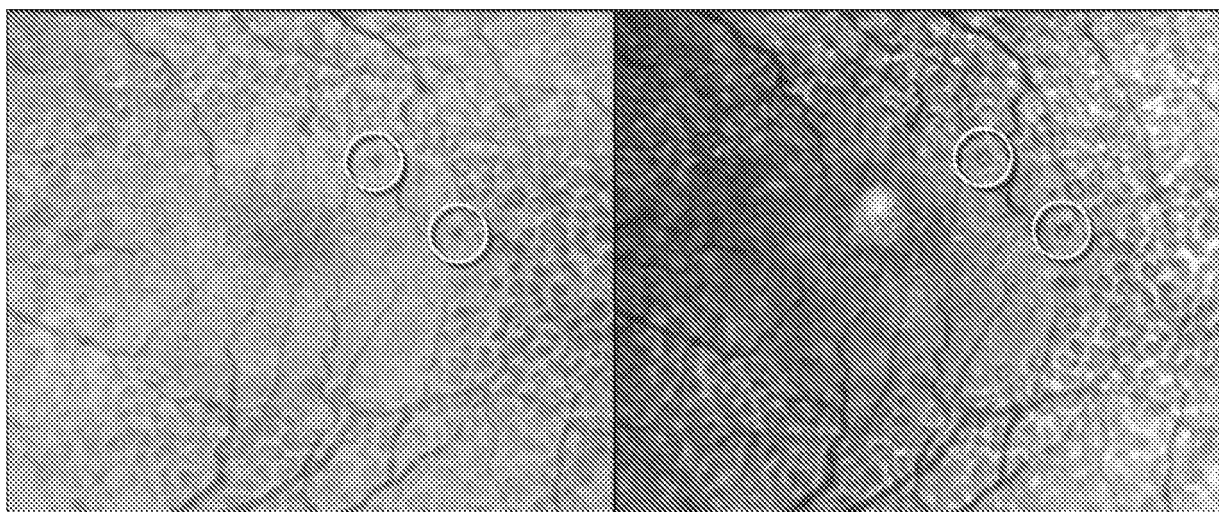


FIG. 4

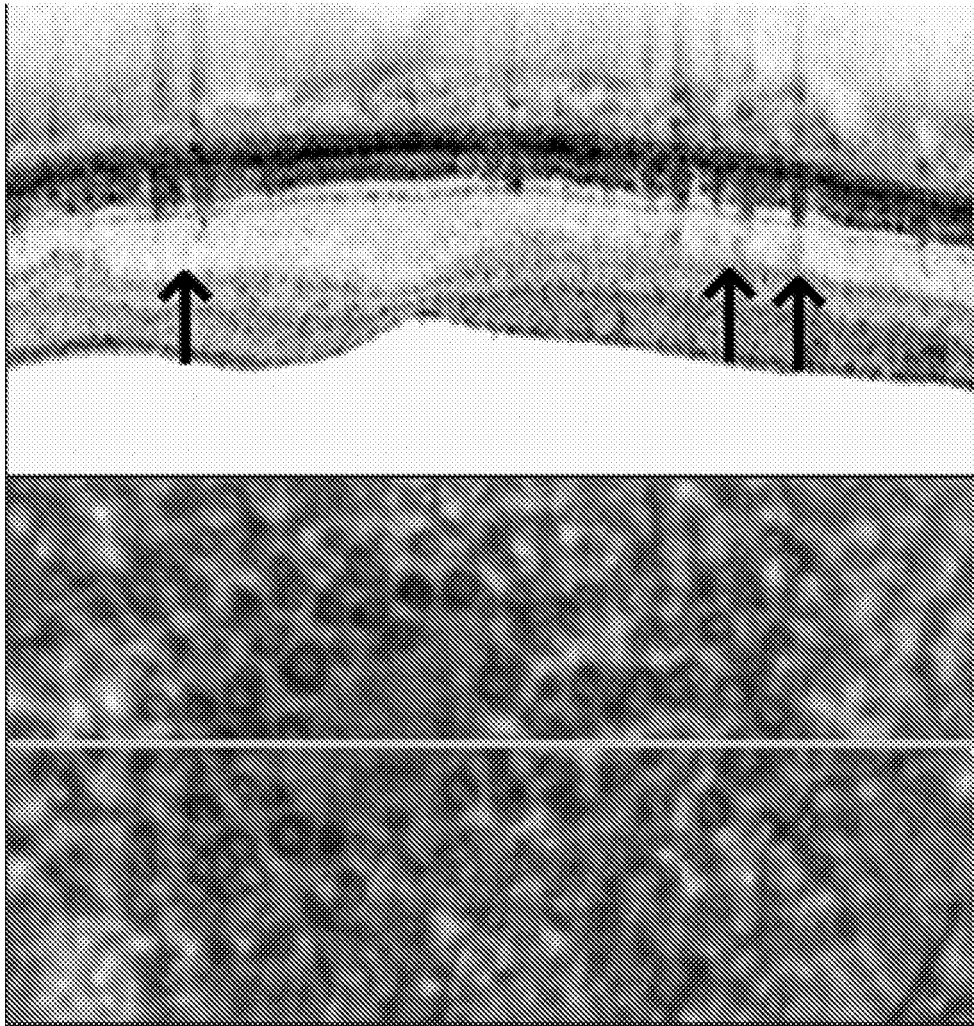


FIG. 5

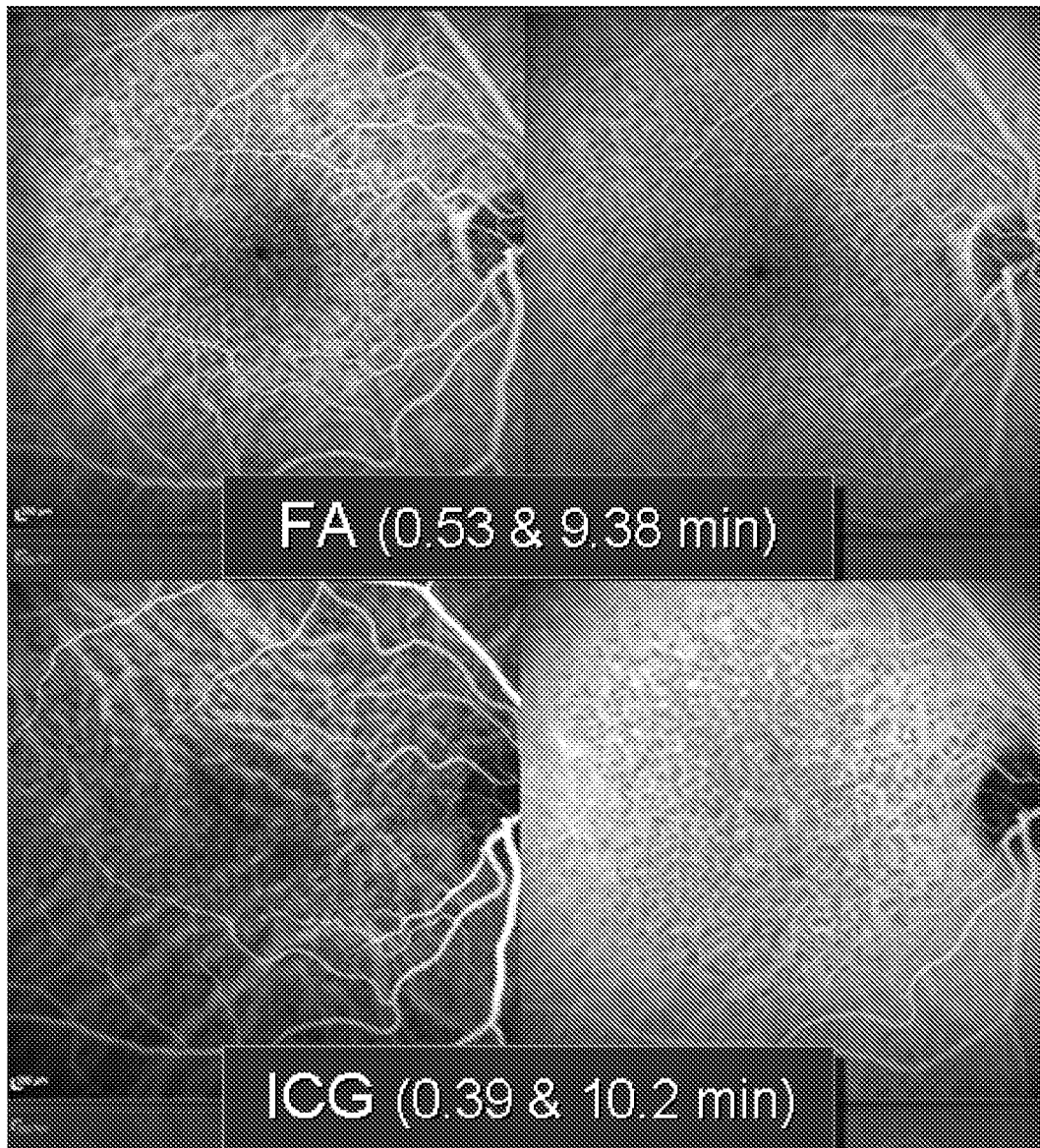


FIG. 6

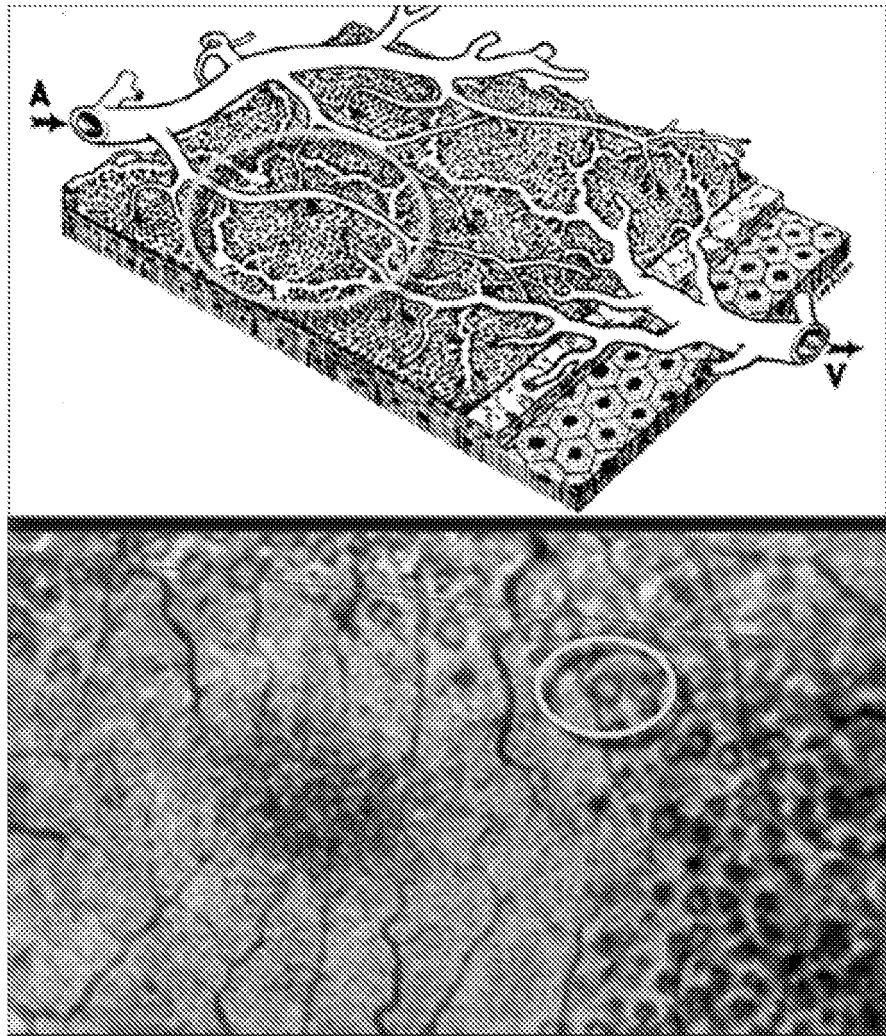


FIG. 7

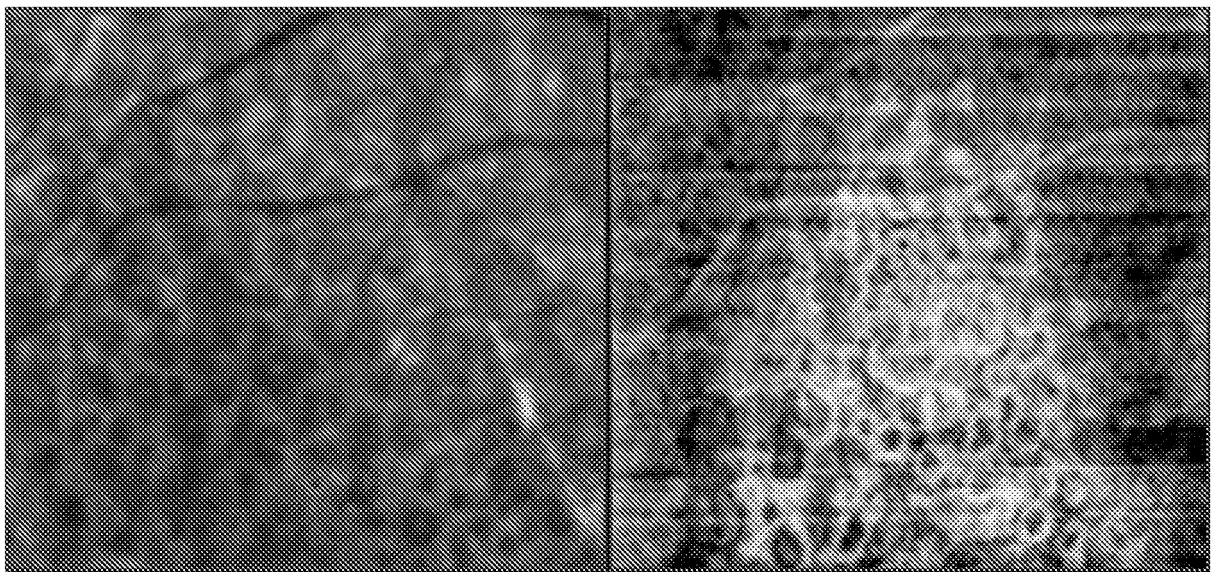


FIG. 8

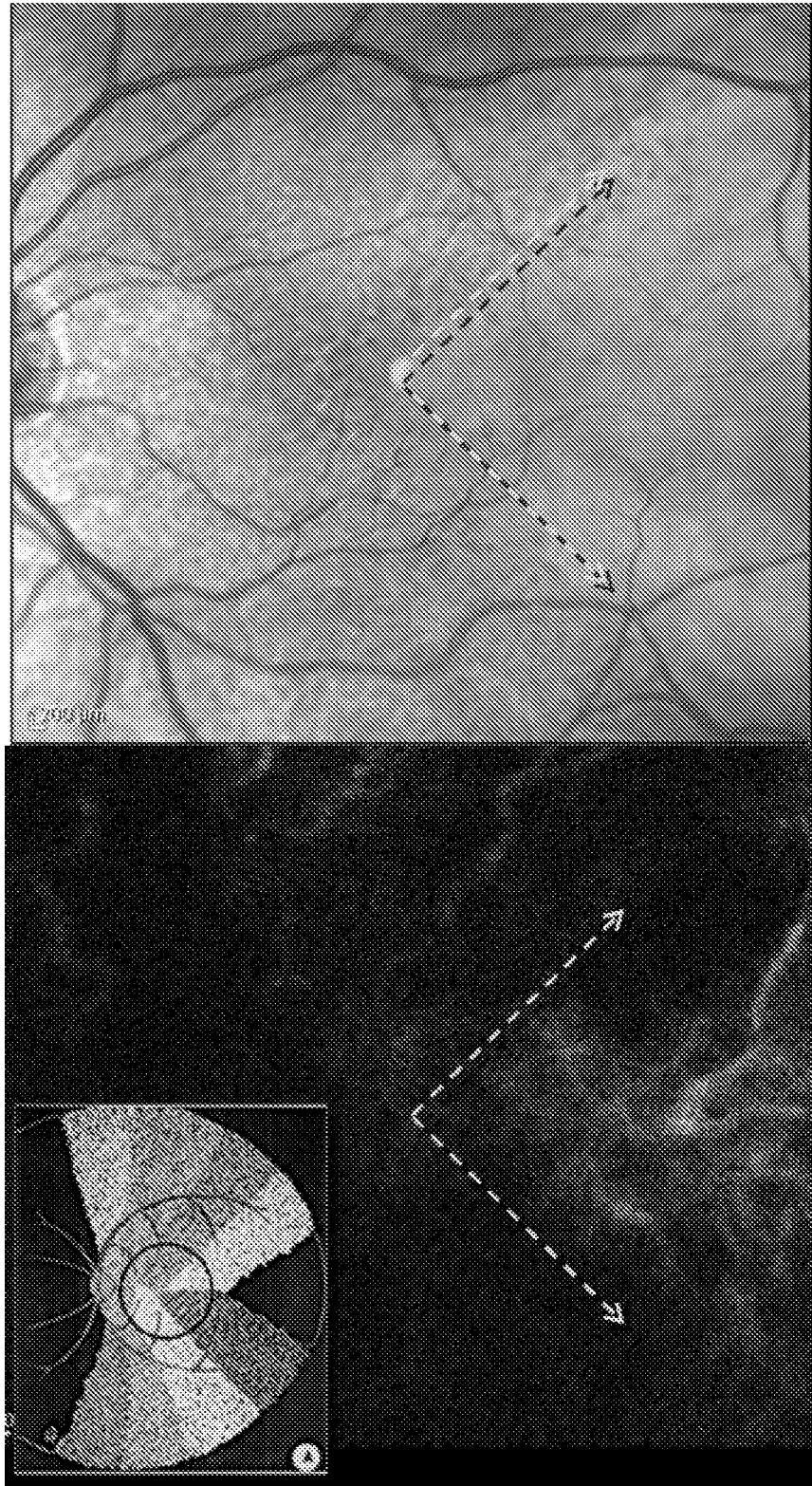


FIG. 9



FIG. 10

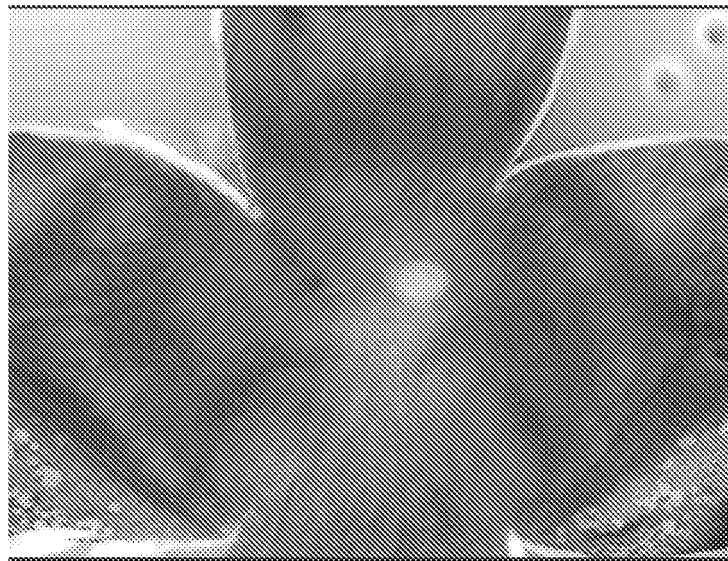


FIG. 11

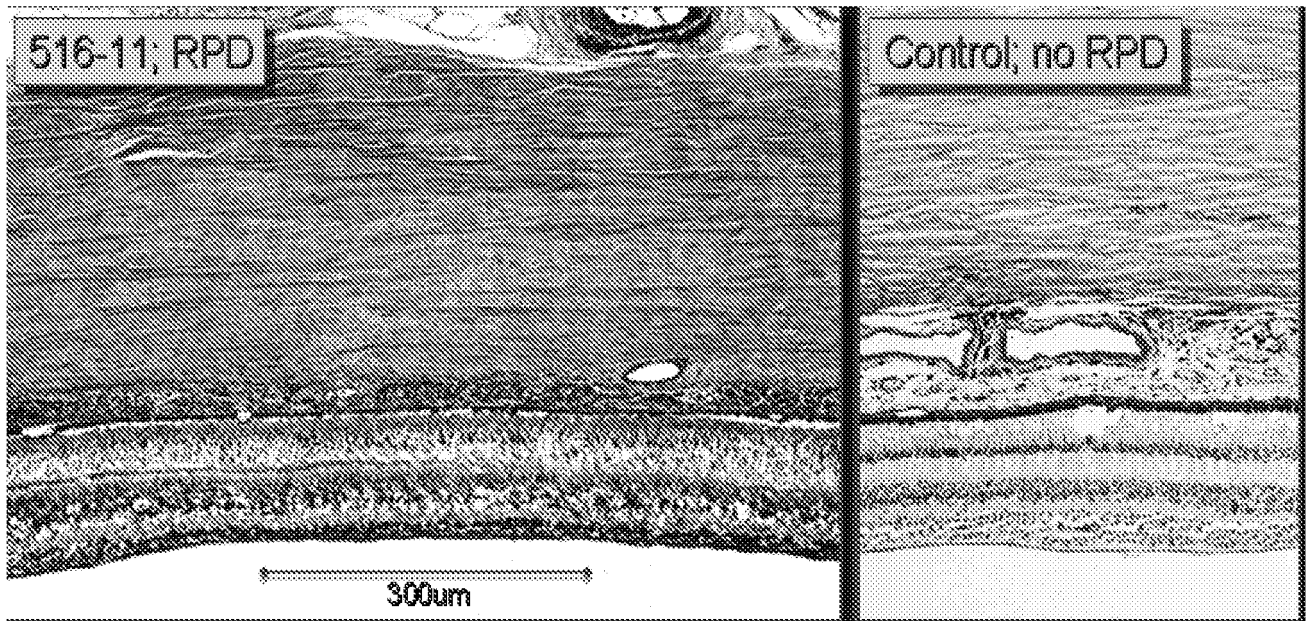


FIG. 12

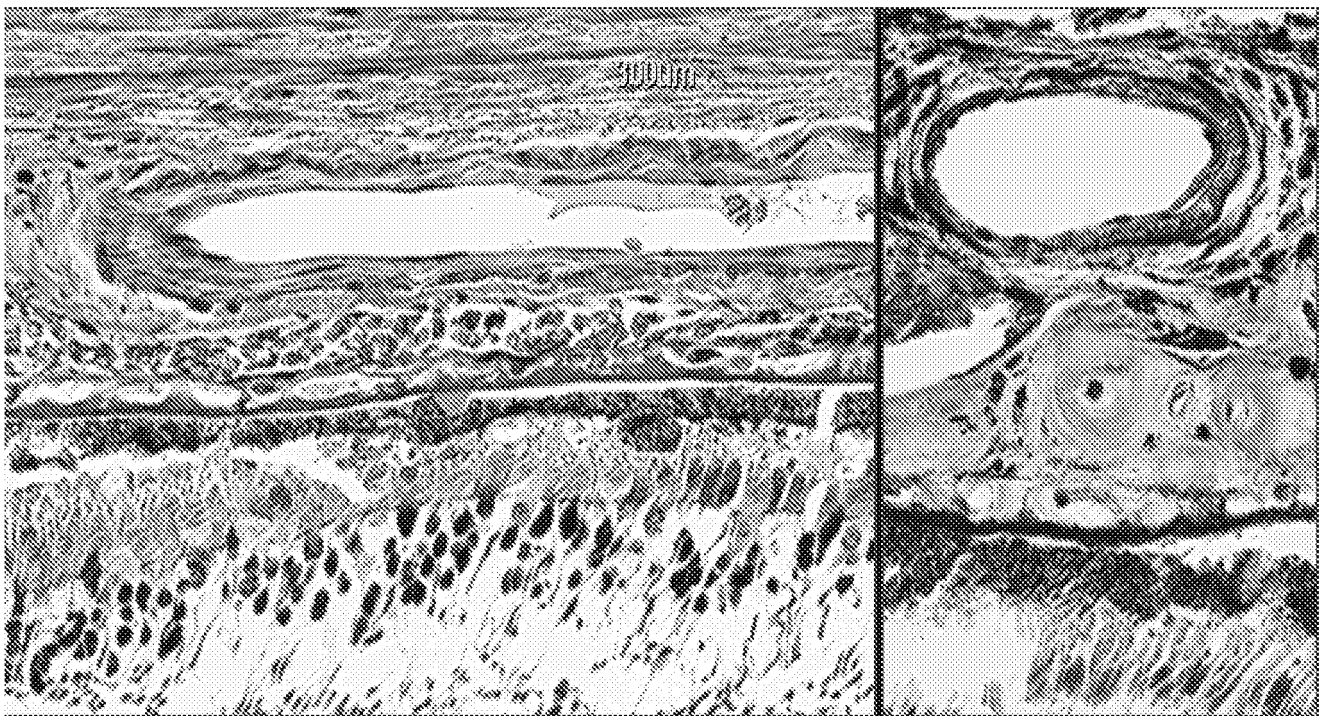
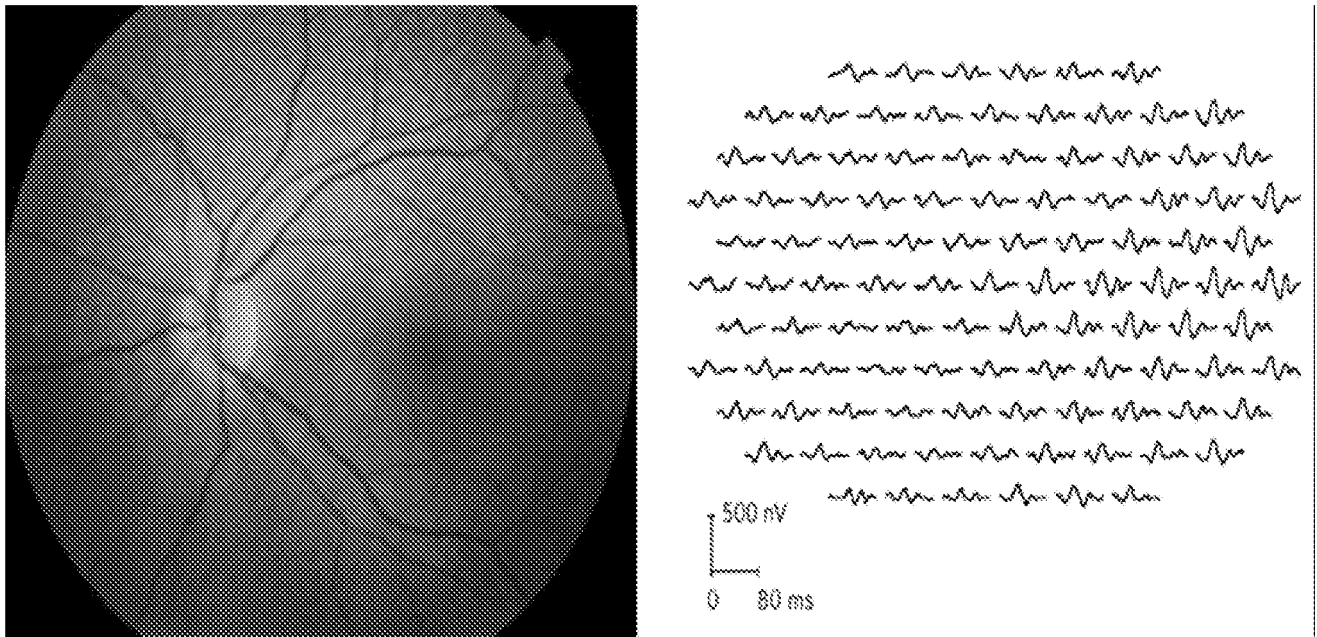
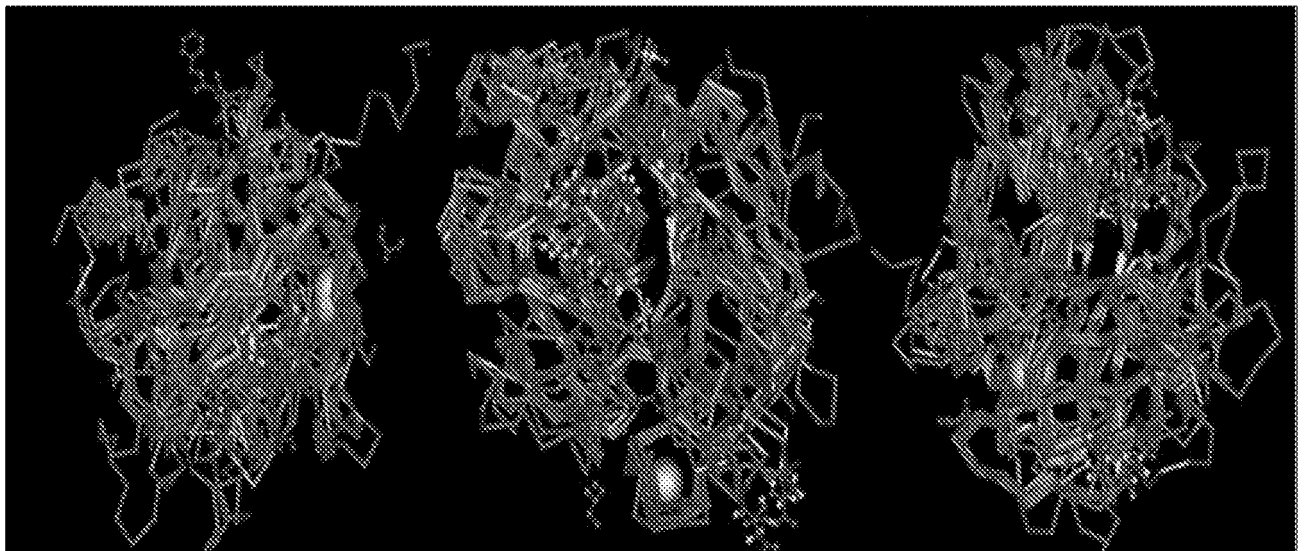


FIG. 13

**FIG. 14****FIG. 15**

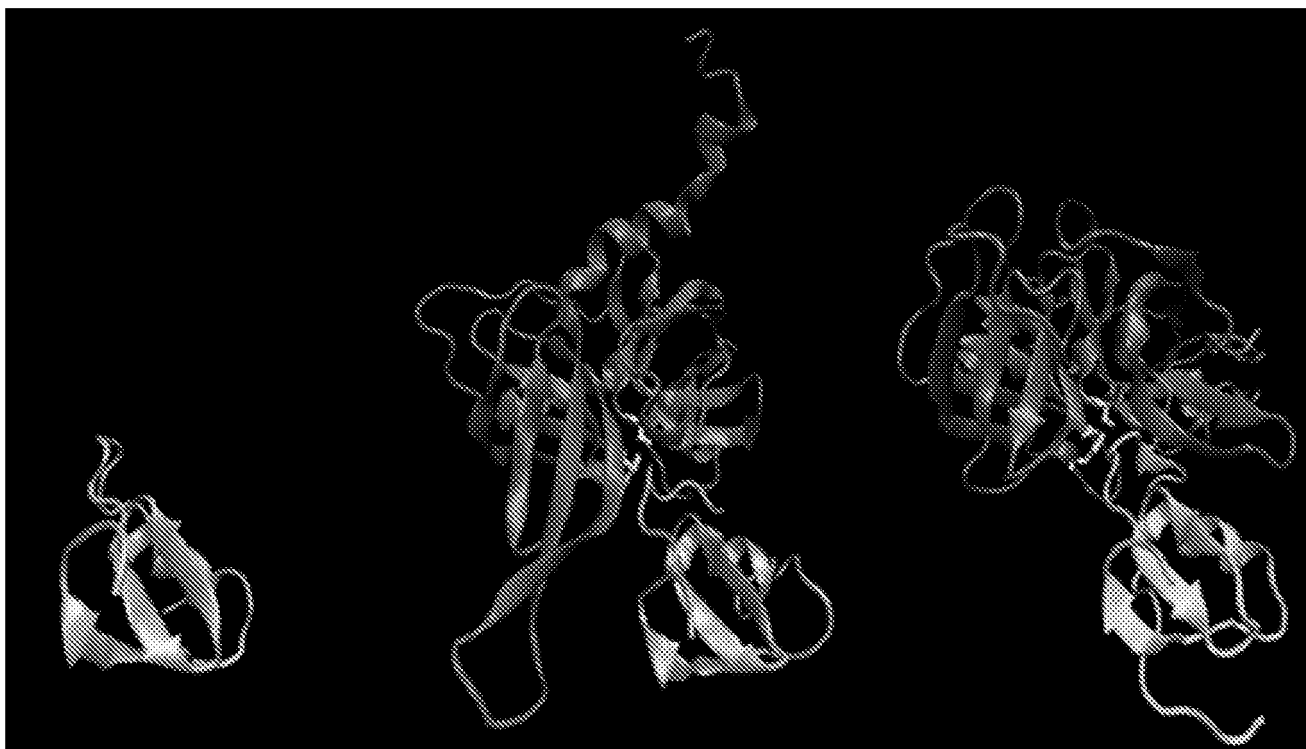
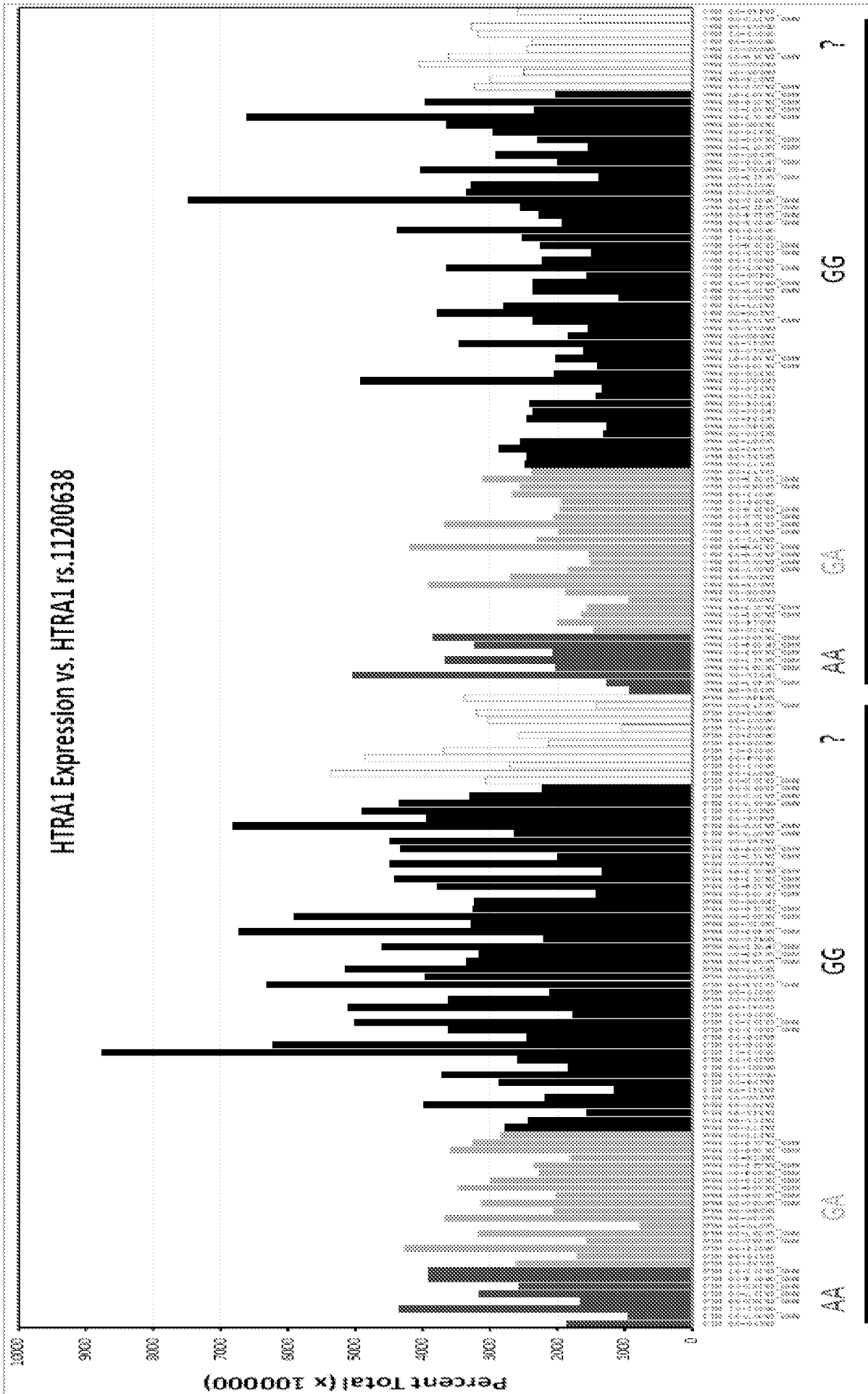
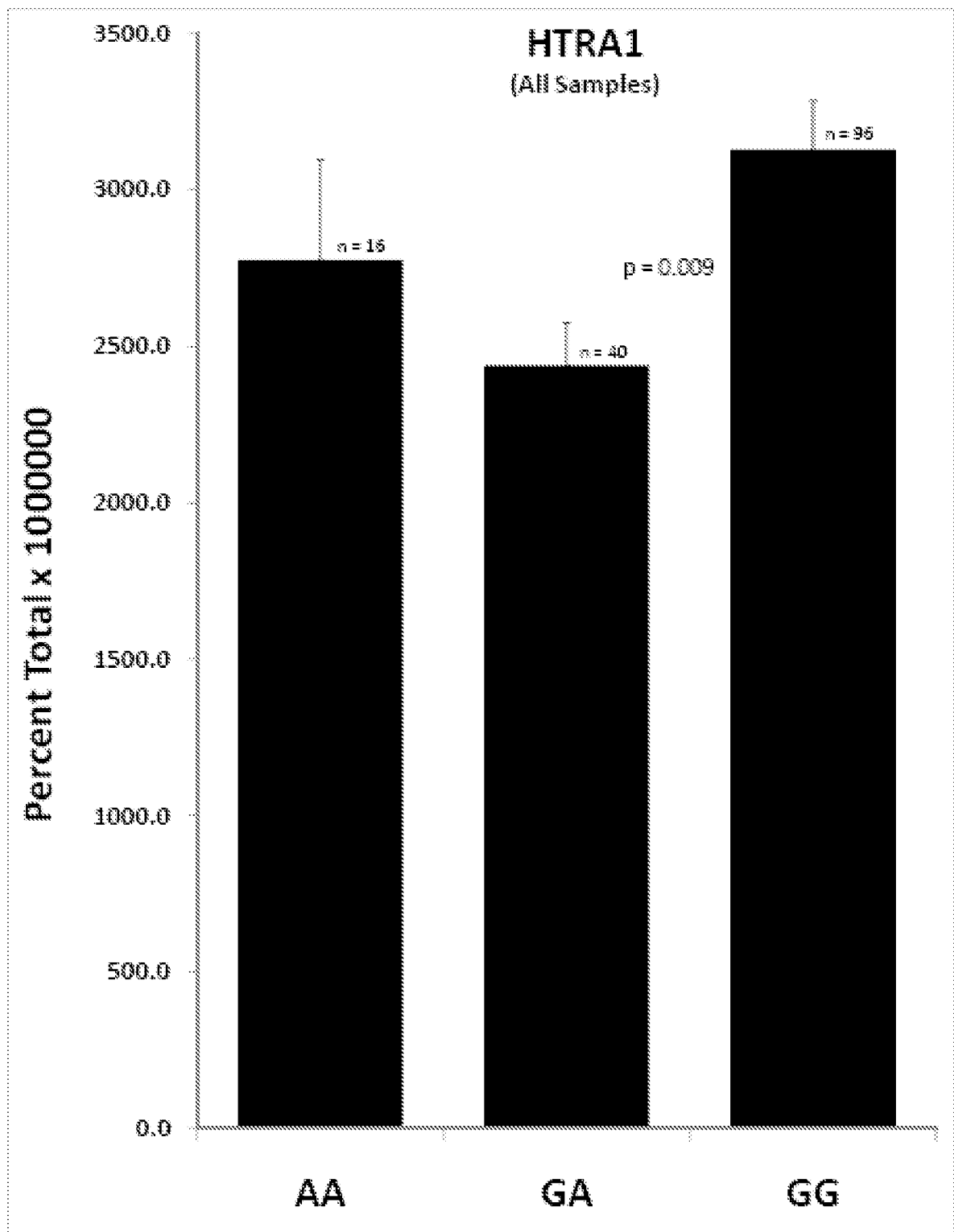
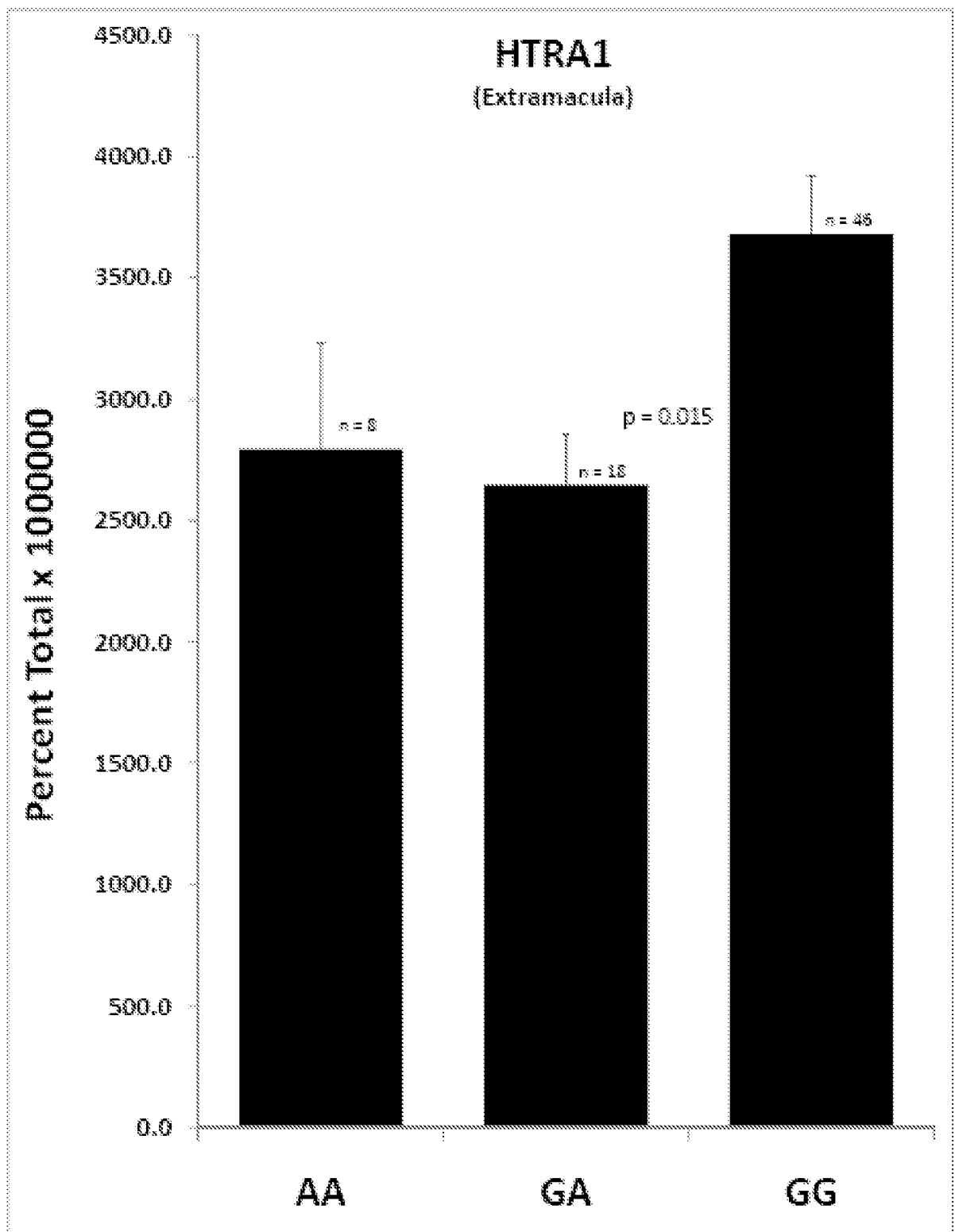
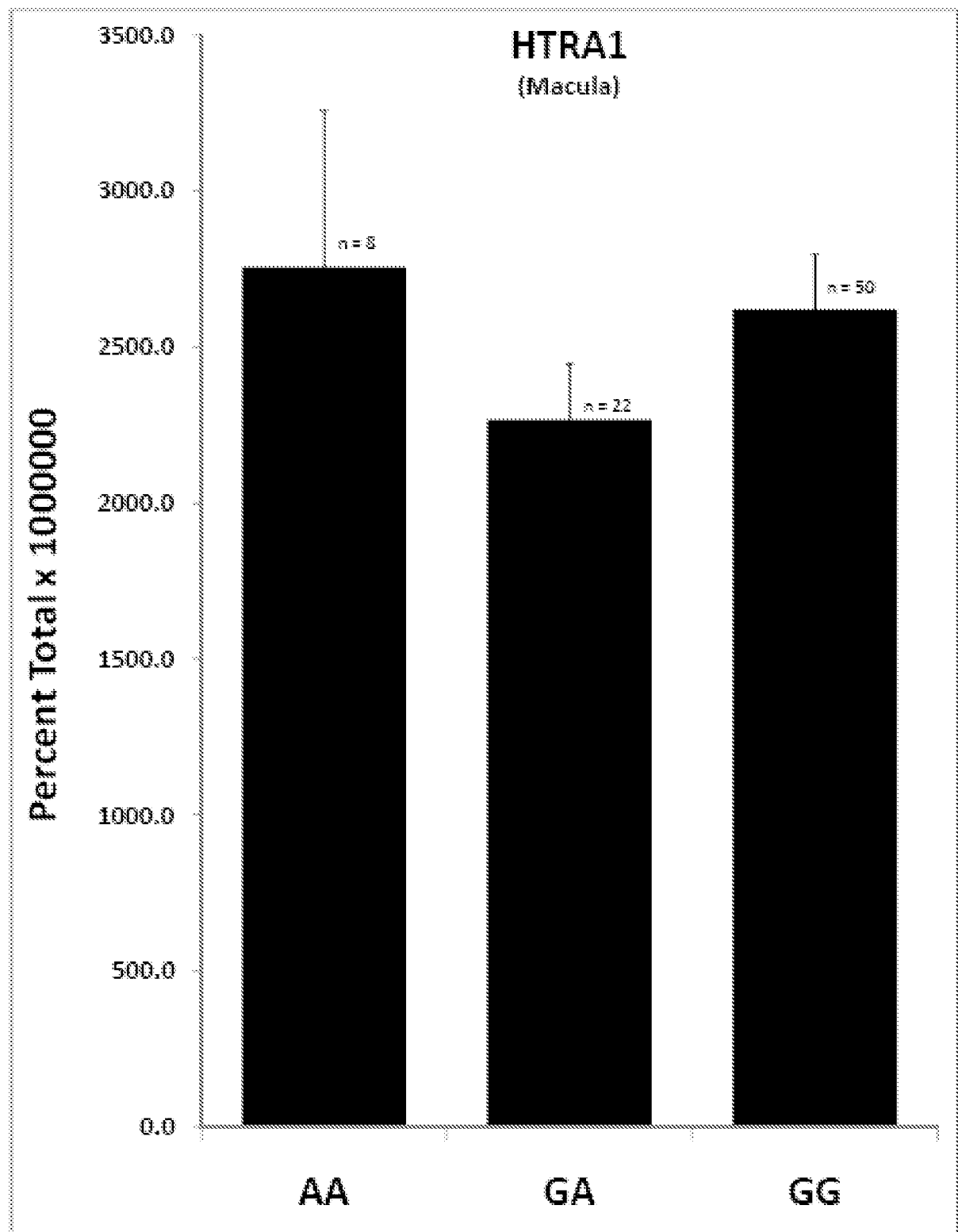


FIG. 16



**FIG. 17B**

**FIG. 17C**

**FIG. 17D**

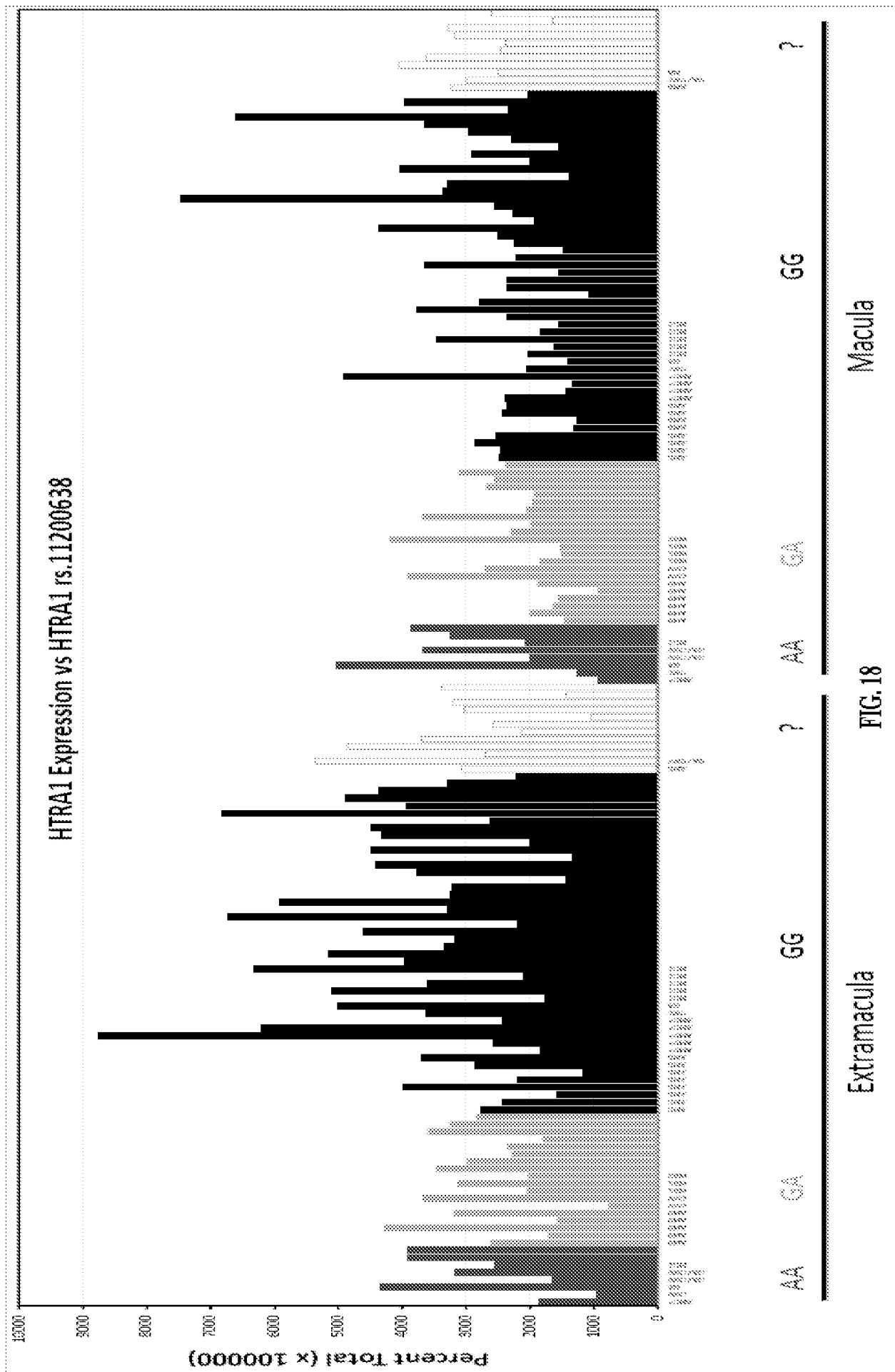


FIG.18

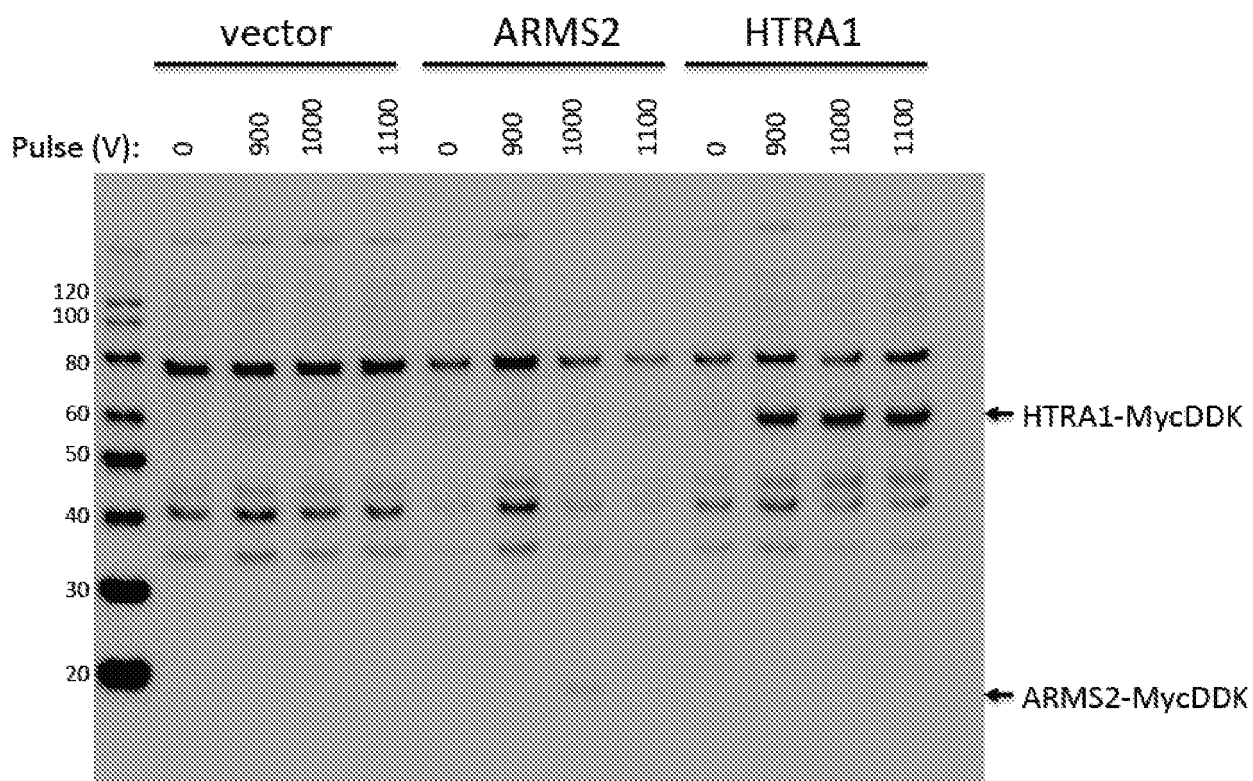


FIG. 19

Western blots showing reactivity of HTRA1 subdomain specific antibodies

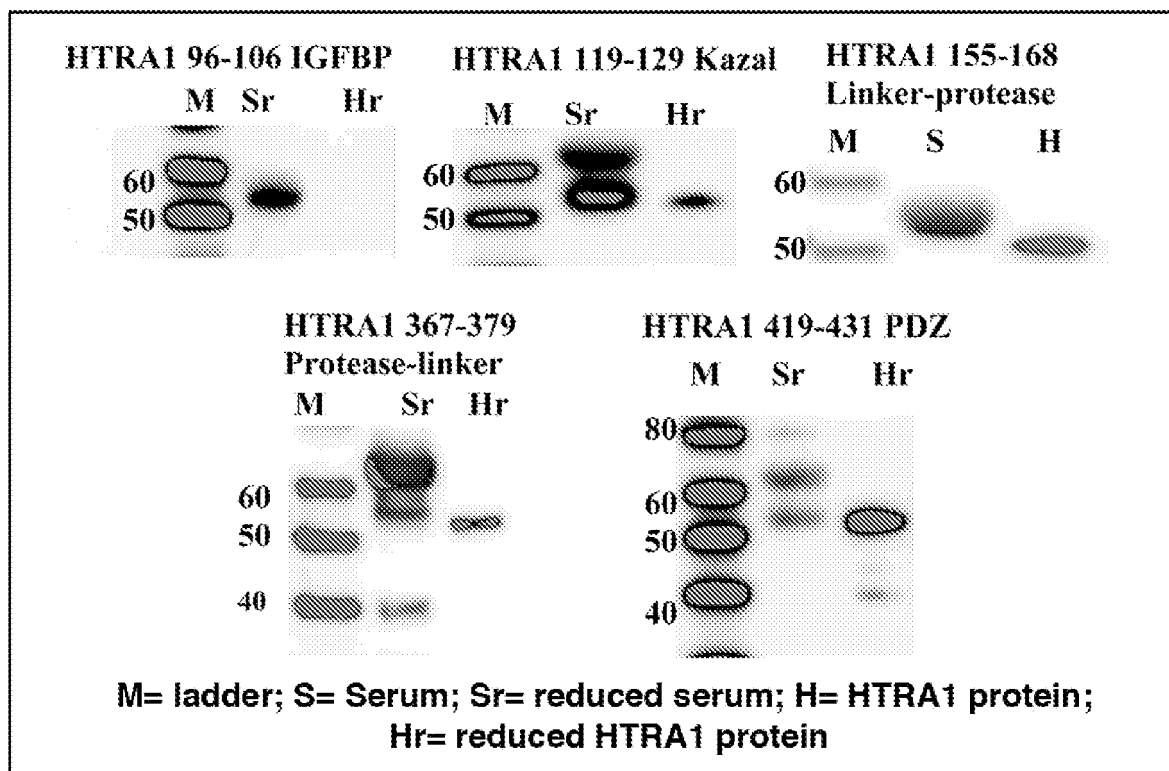
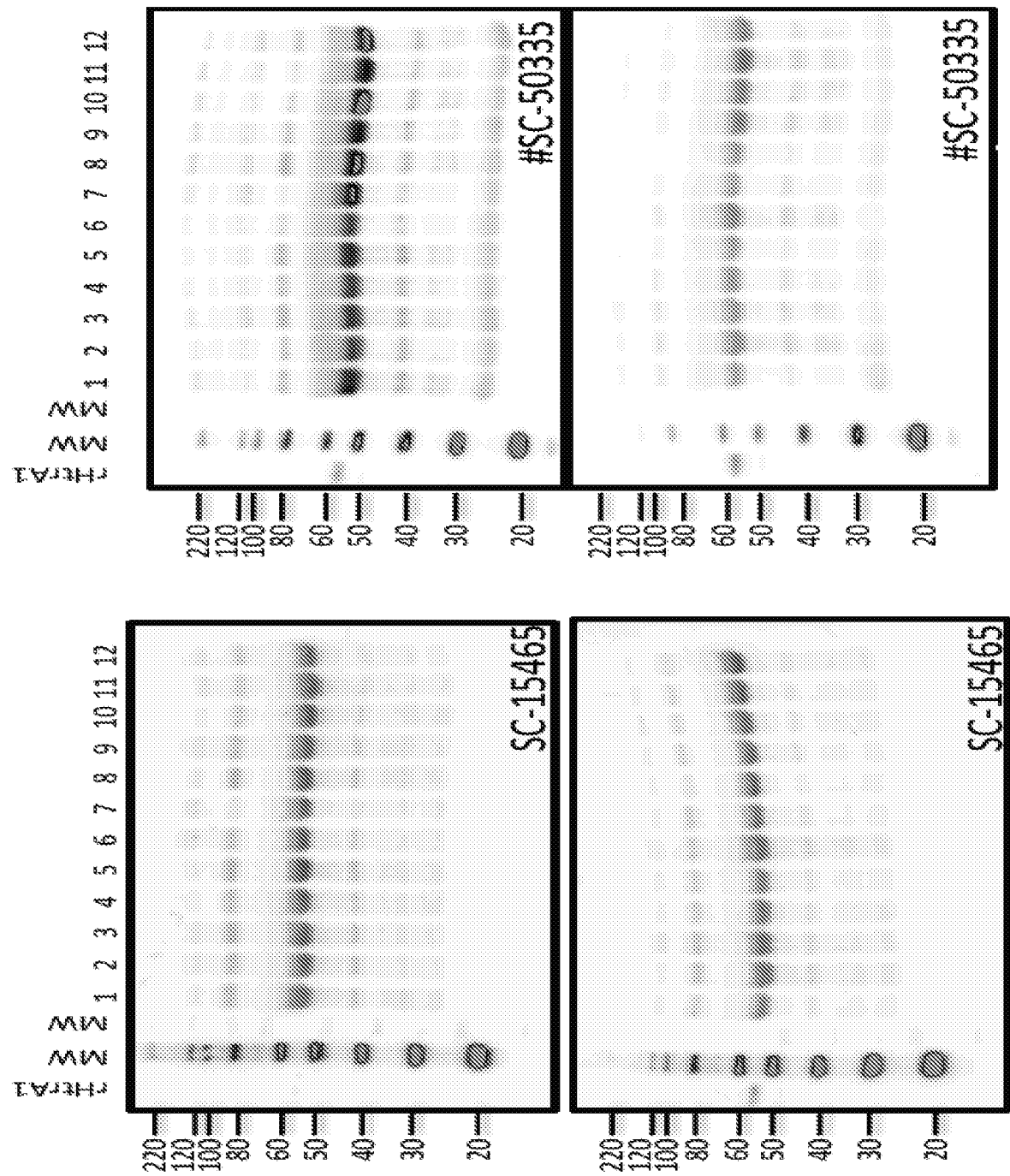


FIG. 20



Non-Risk at Both Loci: No disease

Sample #	Subject	Year	Age	Sex	Worst Eye
1	0129-11	2011	87	F	0
2	0177-11	2011	85	F	0
3	664-10	2010	78	F	0
4	0248-11	2011	78	F	0
5	0286-11	2011	91	F	0
6	0382-11	2011	78	F	0
7	0384-11	2011	74	M	0
8	0395-11	2011	87	M	0
9	853-10	2010	75	F	0
10	571-10	2010	76	M	0
11	742-10	2010	78	M	0
12	847-10	2010	80	F	0

Non-Risk at Both Loci with disease

Sample #	Subject	Year	Age	Sex	Worst Eye
1	1075-10	2010	85	F	4A
2	0126-11	2011	82	M	4A
3	974-10	2010	87	F	4A
4	0318-11	2011	87	M	4B
5	0342-11	2011	86	F	4B
6	1070-10	2010	80	F	4B
7	1138-10	2010	83	F	4B
8	268-10	2010	88	F	4B
9	670-10	2010	74	F	4B
10	491-10	2010	74	M	4B
11	748-10	2010	75	M	4B
12	753-10	2010	80	F	4B

Risk at Both Loci

Sample #	Subject	Year	Age	Sex	Worst Eye
1	691-10	2010	82	F	4A
2	1065-10	2010	74	F	4A
3	0157-11	2011	75	M	4A
4	0046-11	2011	60	M	4B
5	254-10	2010	75	M	4B
6	390-10	2010	82	F	4B
7	505-10	2010	80	F	4B
8	731-10	2010	83	F	4B
9	732-10	2010	86	F	4B
10	764-10	2010	79	F	4B
11	768-10	2010	84	F	4B
12	815-10	2010	74	M	4B

Non-Risk at CFH and Risk at Chromosome 10

Sample #	Subject	Year	Age	Sex	Worst Eye
1	28	2010	80	M	4A
2	1049	2010	85	F	4A
3	245	2010	78	F	4A
4	237	2010	78	M	4B
5	282	2010	78	F	4B
6	325	2010	83	F	4B
7	461	2010	82	M	4B
8	694	2010	78	M	4B
9	868	2010	91	F	4B
10	33	2011	88	F	4B
11	150	2011	75	F	4B
12	208	2011	88	F	4B

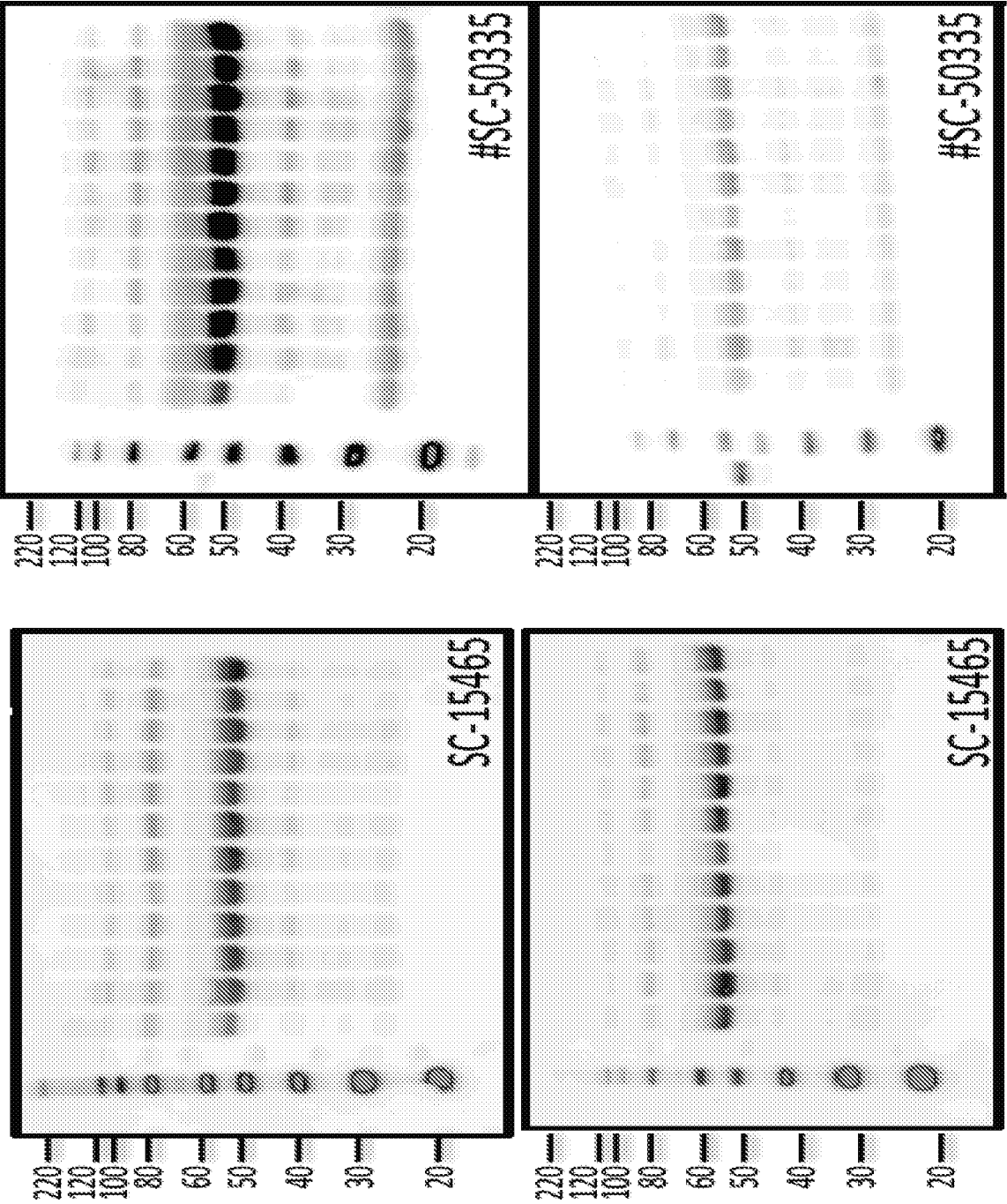


FIG. 21A 2

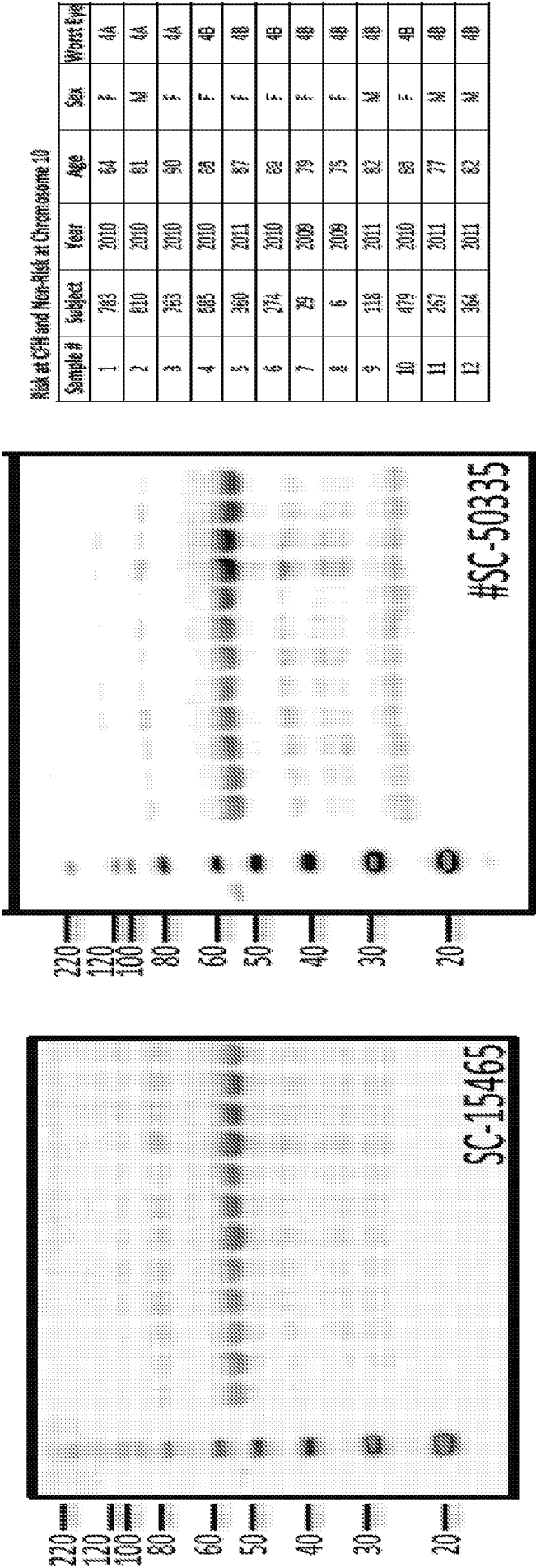


FIG. 21A3

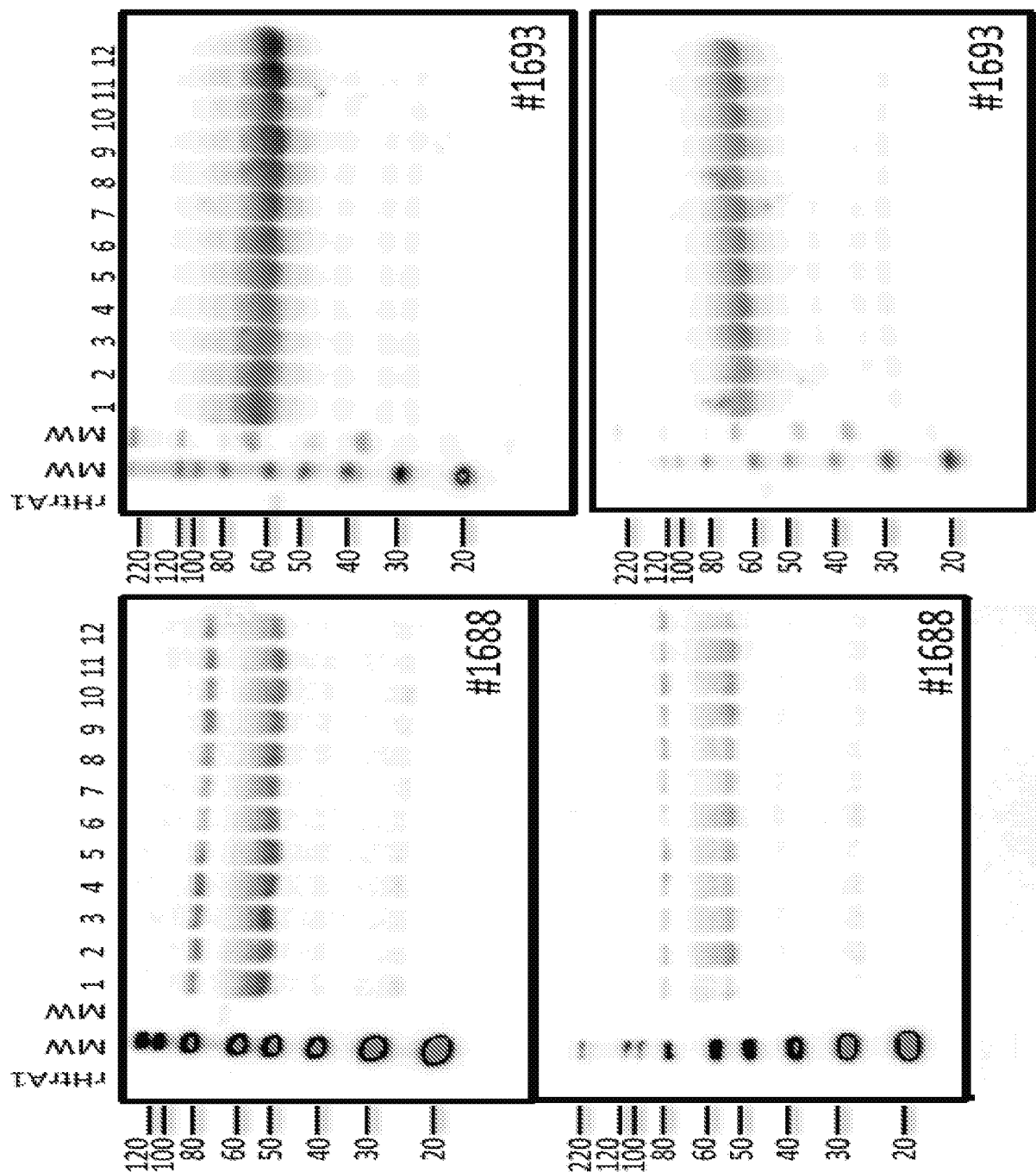


FIG. 21B I

Non-Risk at Both Loci: No disease

Sample #	Subject	Year	Age	Sex	Worst Eye
1	0129-11	2011	87	F	0
2	0177-11	2011	85	F	0
3	0684-10	2010	78	F	0
4	0146-11	2011	78	F	0
5	0186-11	2011	91	F	0
6	0382-11	2011	78	F	0
7	0384-11	2011	74	M	0
8	0395-11	2011	87	M	0
9	853-10	2010	75	F	0
10	571-10	2010	76	M	0
11	742-10	2010	78	M	0
12	847-10	2010	80	F	0

Non-Risk at Both Loci with disease

Sample #	Subject	Year	Age	Sex	Worst Eye
1	1075-10	2010	85	F	4A
2	0126-11	2011	82	M	4A
3	974-10	2010	87	F	4A
4	0318-11	2011	87	M	4B
5	0342-11	2011	86	F	4B
6	1070-10	2010	80	F	4B
7	1138-10	2010	83	F	4B
8	268-10	2010	86	F	4B
9	670-10	2010	74	F	4B
10	491-10	2010	78	M	4B
11	746-10	2010	75	M	4B
12	753-10	2010	80	F	4B

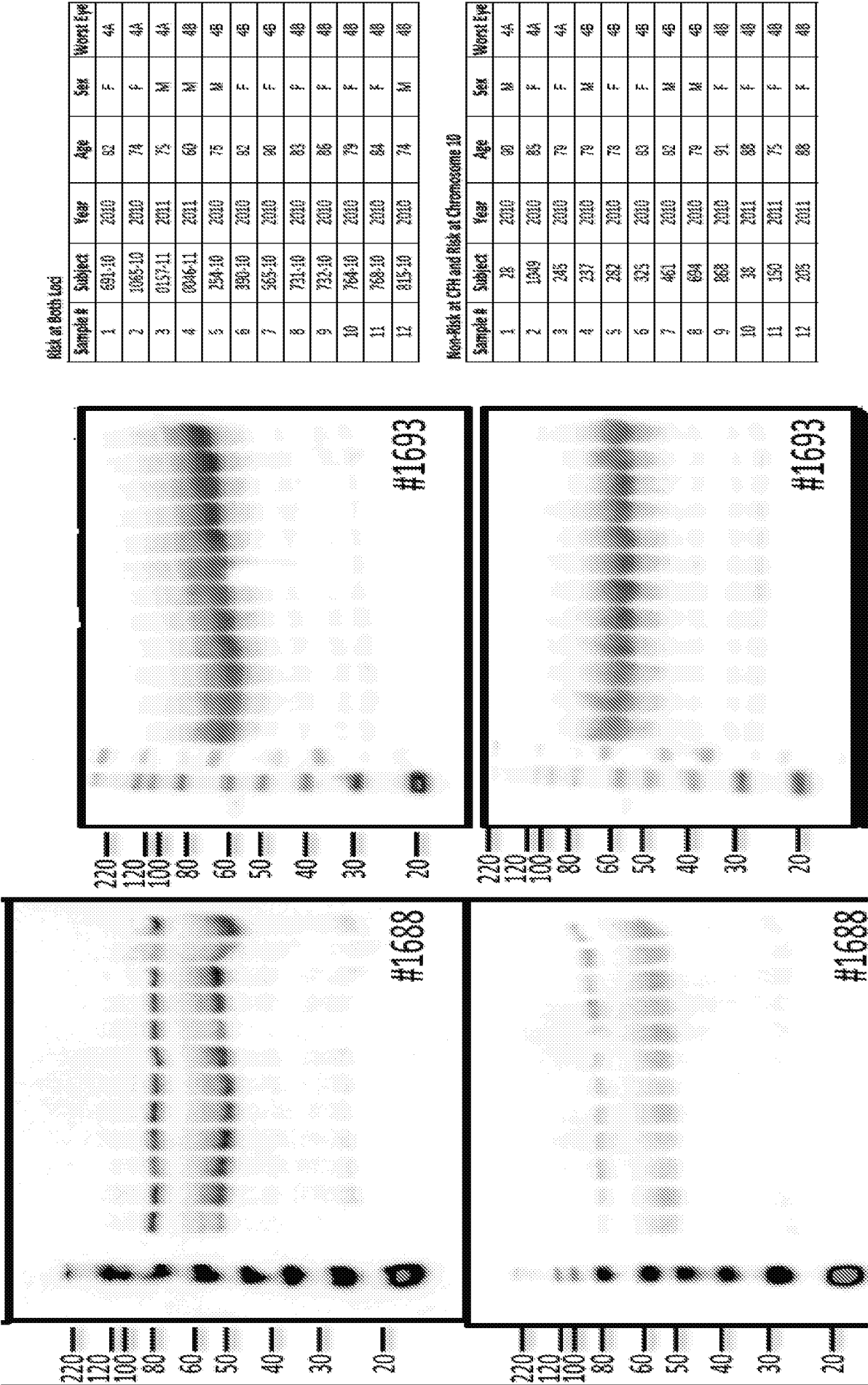


FIG. 21B 2

Risk at CFH and Non-Risk at Chromosome 10

Sample #	Subject	Year	Age	Sex	Ward Eye
1	783	2010	64	F	4A
2	810	2010	81	M	4A
3	783	2010	90	F	4A
4	685	2010	85	F	4B
5	360	2011	87	F	4B
6	274	2010	88	F	4B
7	29	2009	79	F	4B
8	6	2009	75	F	4B
9	118	2011	82	M	4B
10	479	2010	88	F	4B
11	267	2011	77	M	4B
12	364	2011	82	M	4B

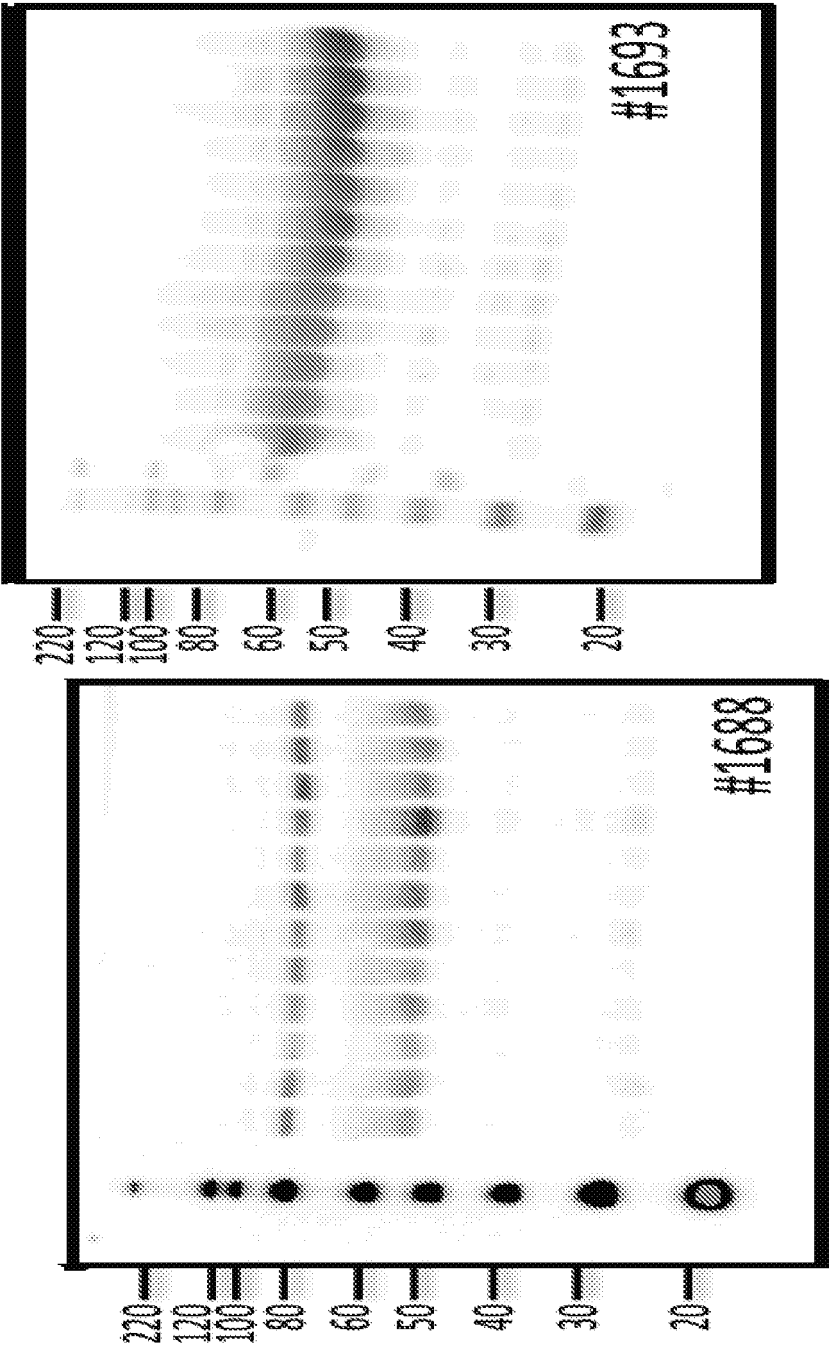


FIG. 2B3

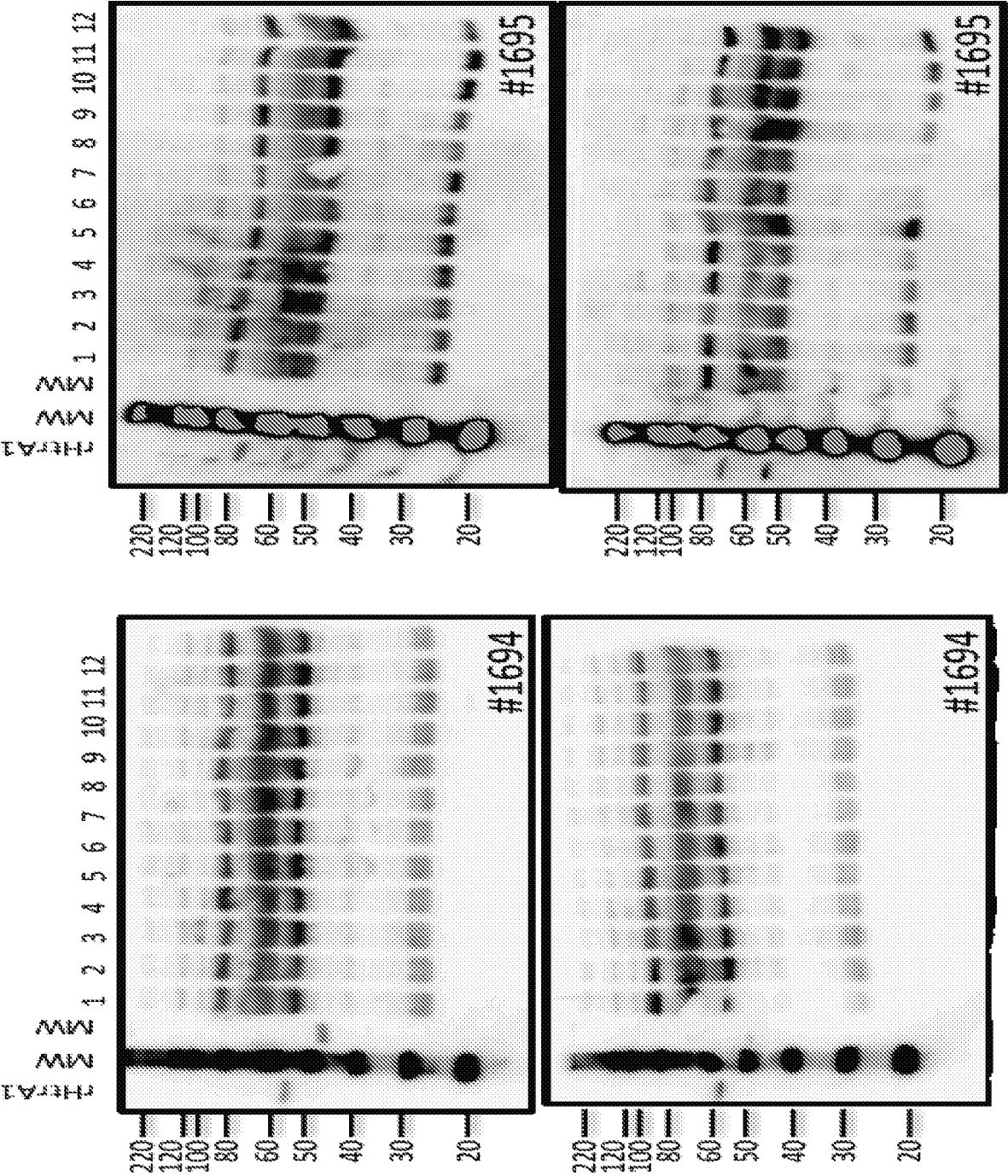


FIG. 21C I

Non-Risk at Both Loci: No disease

Sample #	Subject	Year	Age	Sex	Worst Eye
1	0129-11	2011	87	F	0
2	0177-11	2011	85	F	0
3	664-10	2010	78	F	0
4	0246-11	2011	78	F	0
5	0296-11	2011	91	F	0
6	0302-11	2011	78	F	0
7	0304-11	2011	74	M	0
8	0395-11	2011	87	M	0
9	853-10	2010	75	F	0
10	574-10	2010	76	M	0
11	742-10	2010	78	M	0
12	847-10	2010	80	F	0

Non-Risk at Both Loci with disease

Sample #	Subject	Year	Age	Sex	Worst Eye
1	1075-10	2010	85	F	4A
2	0126-11	2011	82	M	4A
3	574-10	2010	87	F	4A
4	0318-11	2011	87	M	4B
5	0342-11	2011	86	F	4B
6	1070-10	2010	80	F	4B
7	1138-10	2010	83	F	4B
8	266-10	2010	80	F	4B
9	672-10	2010	74	F	4B
10	491-10	2010	76	M	4B
11	746-10	2010	75	M	4B
12	759-10	2010	80	F	4B

Risk at Both Loci

Sample #	Subject	Year	Age	Sex	Worst Eye
1	691-10	2010	82	F	4A
2	1083-10	2010	74	F	4A
3	0157-11	2011	75	M	4A
4	0046-11	2011	60	M	4B
5	254-10	2010	75	M	4B
6	390-10	2010	82	F	4B
7	585-10	2010	80	F	4B
8	731-10	2010	83	F	4B
9	732-10	2010	86	F	4B
10	764-10	2010	79	F	4B
11	788-10	2010	84	F	4B
12	815-10	2010	74	M	4B

Non-Risk at CFH and Risk at Chromosome 10

Sample #	Subject	Year	Age	Sex	Worst Eye
1	28	2010	80	M	4A
2	1049	2010	85	F	4A
3	245	2010	78	F	4A
4	237	2010	78	M	4B
5	282	2010	78	F	4B
6	325	2010	83	F	4B
7	461	2010	82	M	4B
8	894	2010	78	M	4B
9	888	2010	91	F	4B
10	38	2011	88	F	4B
11	130	2011	75	F	4B
12	208	2011	88	F	4B

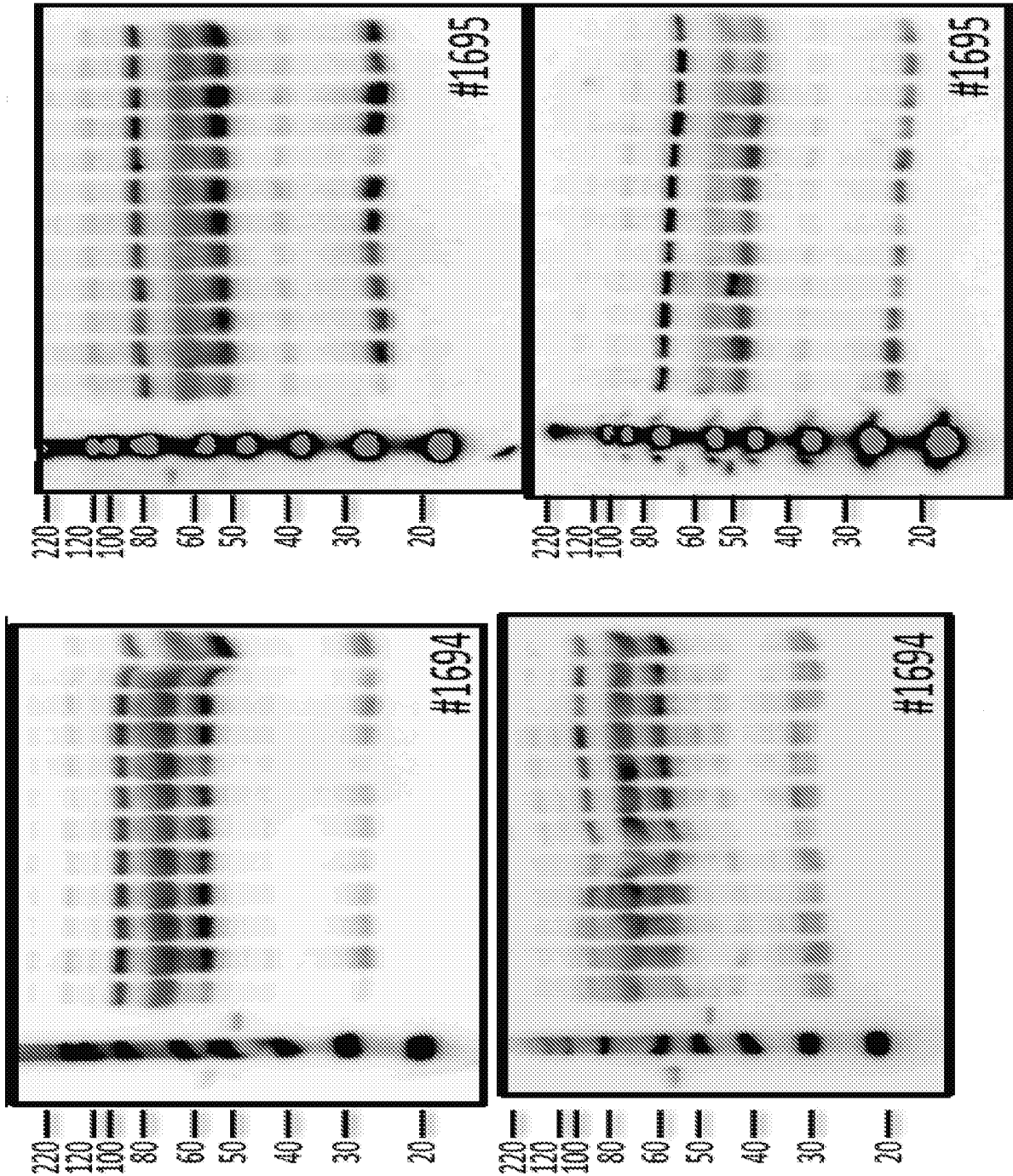


FIG. 21C2

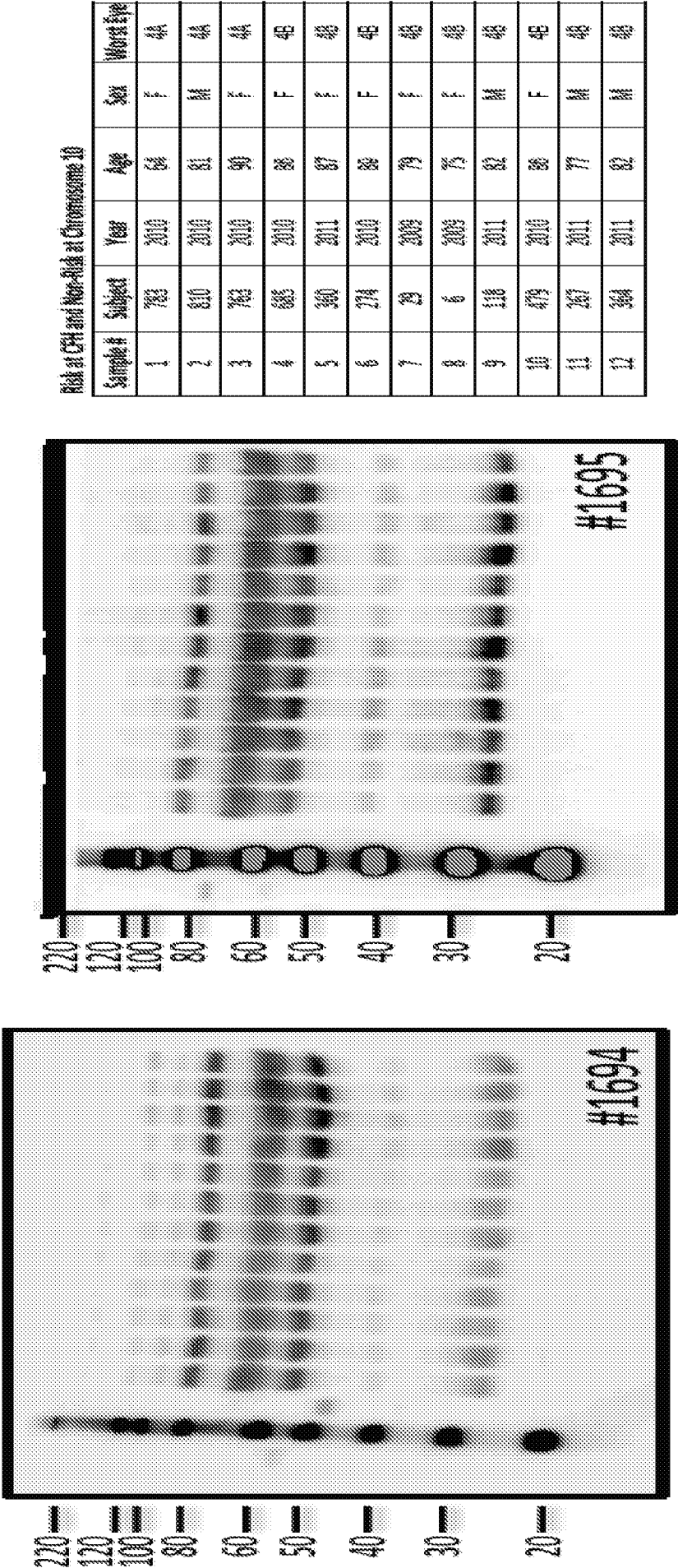
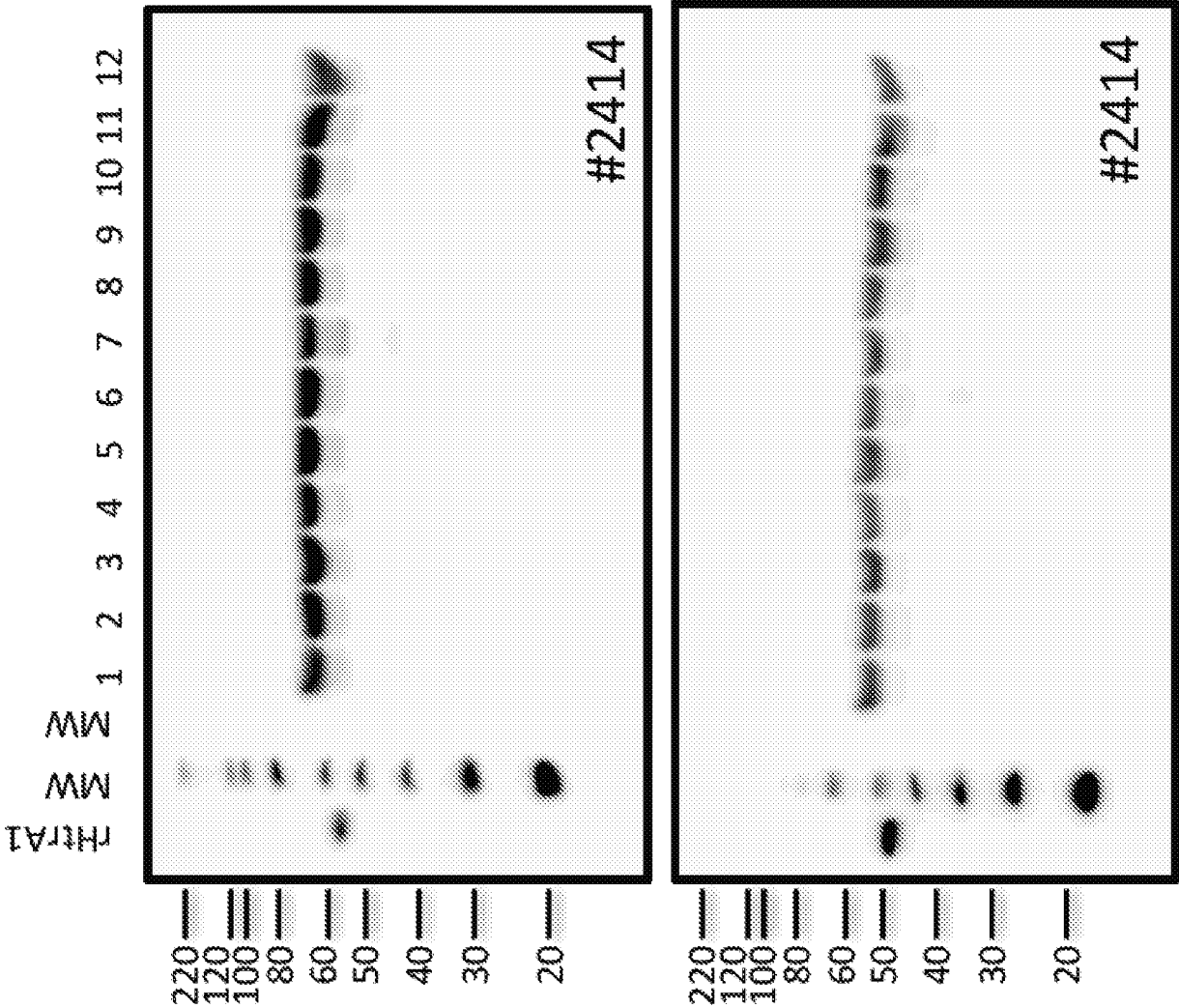


FIG. 21C3



Non-Risk at Both Loci- No disease					
Sample #	Subject	Year	Age	Sex	Worst Eye
1	0129-11	2011	87	F	0
2	0177-11	2011	85	F	0
3	664-10	2010	76	F	0
4	0246-11	2011	78	F	0
5	0286-11	2011	91	F	0
6	0382-11	2011	78	F	0
7	0384-11	2011	74	M	0
8	0395-11	2011	87	M	0
9	853-10	2010	75	F	0
10	571-10	2010	76	M	0
11	742-10	2010	78	M	0
12	847-10	2010	80	F	0

Non-Risk at Both Loci with disease					
Sample #	Subject	Year	Age	Sex	Worst Eye
1	1075-10	2010	85	F	4A
2	0126-11	2011	82	M	4A
3	974-10	2010	87	F	4A
4	0318-11	2011	87	M	4B
5	0342-11	2011	86	F	4B
6	1070-10	2010	80	F	4B
7	1138-10	2010	83	F	4B
8	266-10	2010	86	F	4B
9	670-10	2010	74	F	4B
10	491-10	2010	76	M	4B
11	746-10	2010	75	M	4B
12	753-10	2010	80	F	4B

FIG. 21D I

Risk at Both Loci

Sample #	Subject	Year	Age	Sex	Worst Eye
1	691-10	2010	82	F	4A
2	1065-10	2010	74	F	4A
3	0157-11	2011	75	M	4A
4	0046-11	2011	60	M	4B
5	254-10	2010	75	M	4B
6	390-10	2010	82	F	4B
7	565-10	2010	90	F	4B
8	731-10	2010	83	F	4B
9	732-10	2010	86	F	4B
10	764-10	2010	79	F	4B
11	768-10	2010	84	F	4B
12	815-10	2010	74	M	4B

Non-Risk at CFH and Risk at Chromosome 10

Sample #	Subject	Year	Age	Sex	Worst Eye
1	28	2010	90	M	4A
2	1049	2010	85	F	4A
3	245	2010	79	F	4A
4	237	2010	79	M	4B
5	282	2010	78	F	4B
6	325	2010	83	F	4B
7	461	2010	82	M	4B
8	694	2010	79	M	4B
9	868	2010	91	F	4B
10	38	2011	88	F	4B
11	150	2011	75	F	4B
12	205	2011	88	F	4B

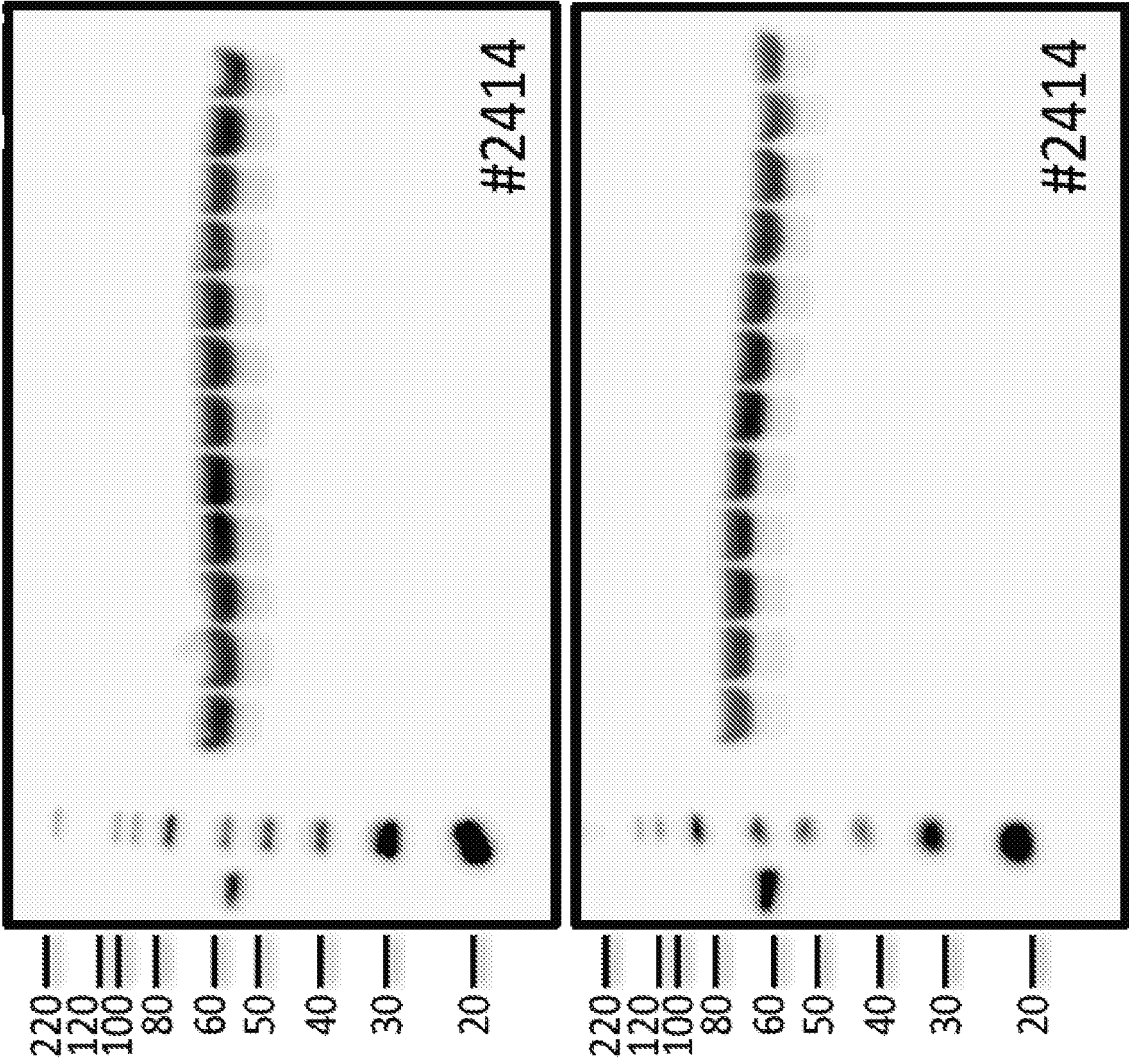


FIG. 21D 2

Risk at CFH and Non-Risk at Chromosome 10

Sample #	Subject	Year	Age	Sex	Worst Eye
1	783	2010	64	F	4A
2	810	2010	81	M	4A
3	763	2010	90	F	4A
4	685	2010	86	F	4B
5	360	2011	87	F	4B
6	274	2010	89	F	4B
7	29	2009	79	F	4B
8	6	2009	75	F	4B
9	118	2011	82	M	4B
10	479	2010	86	F	4B
11	267	2011	77	M	4B
12	364	2011	82	M	4B

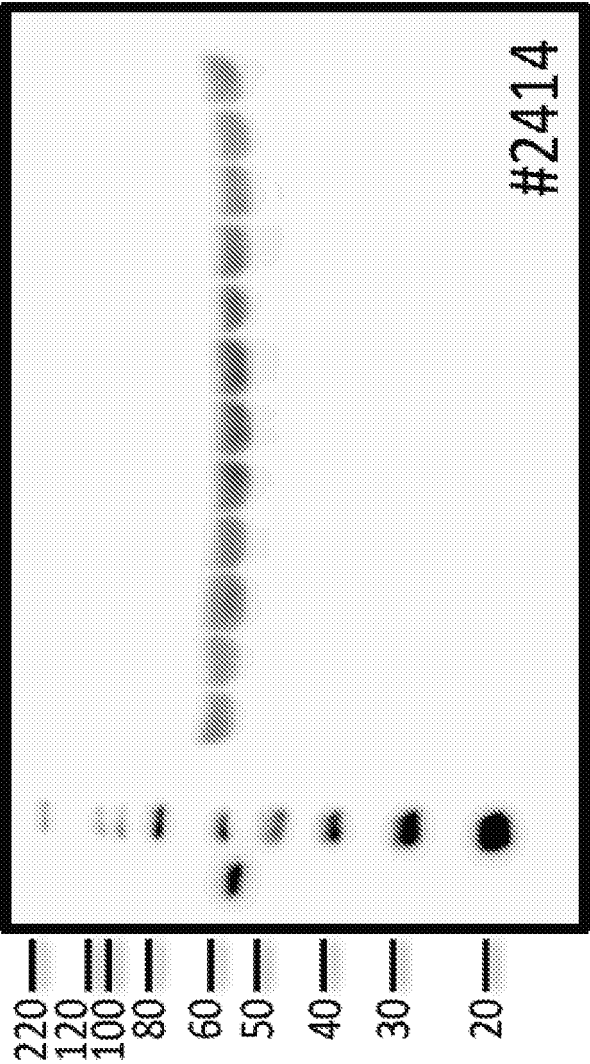
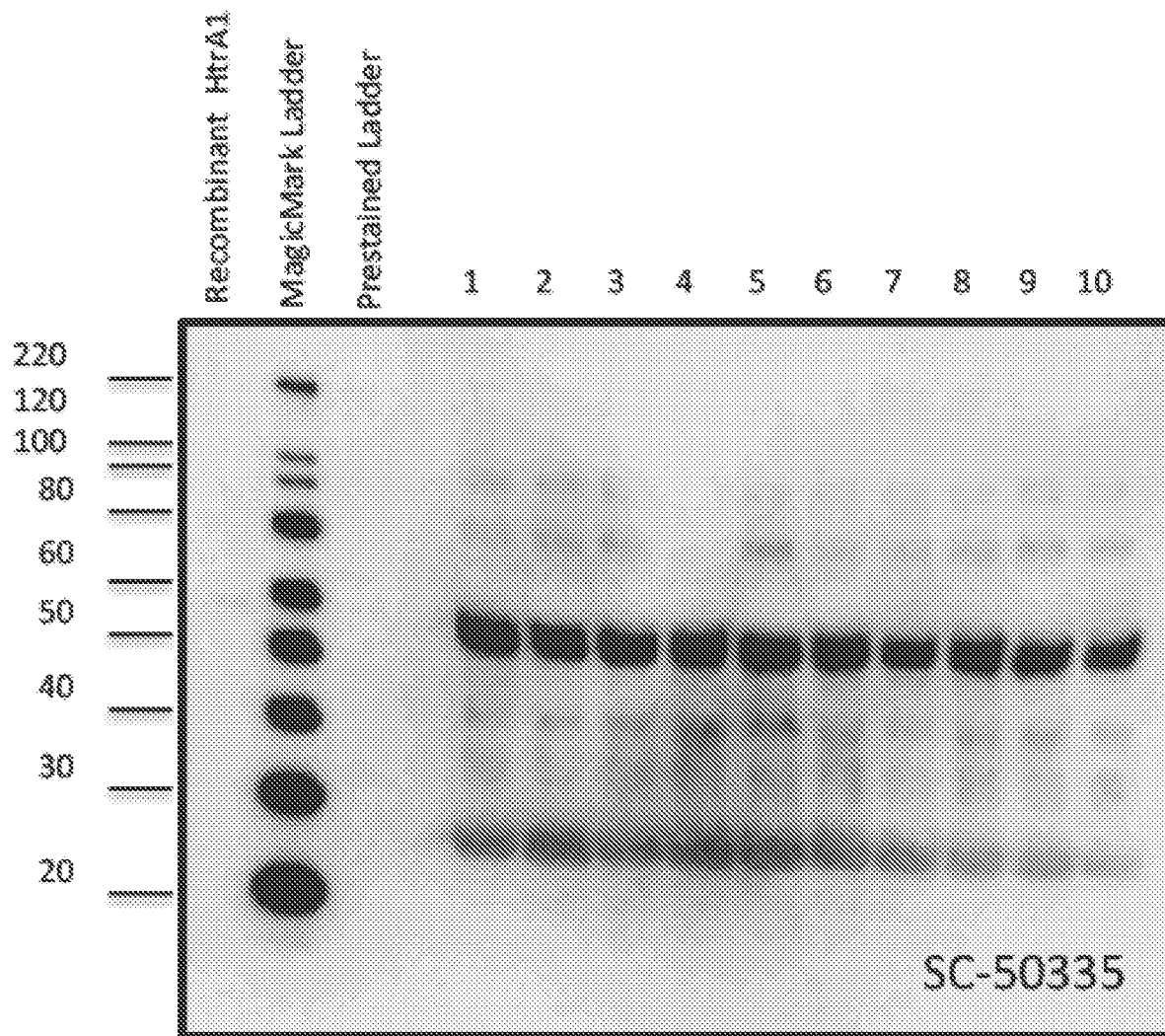
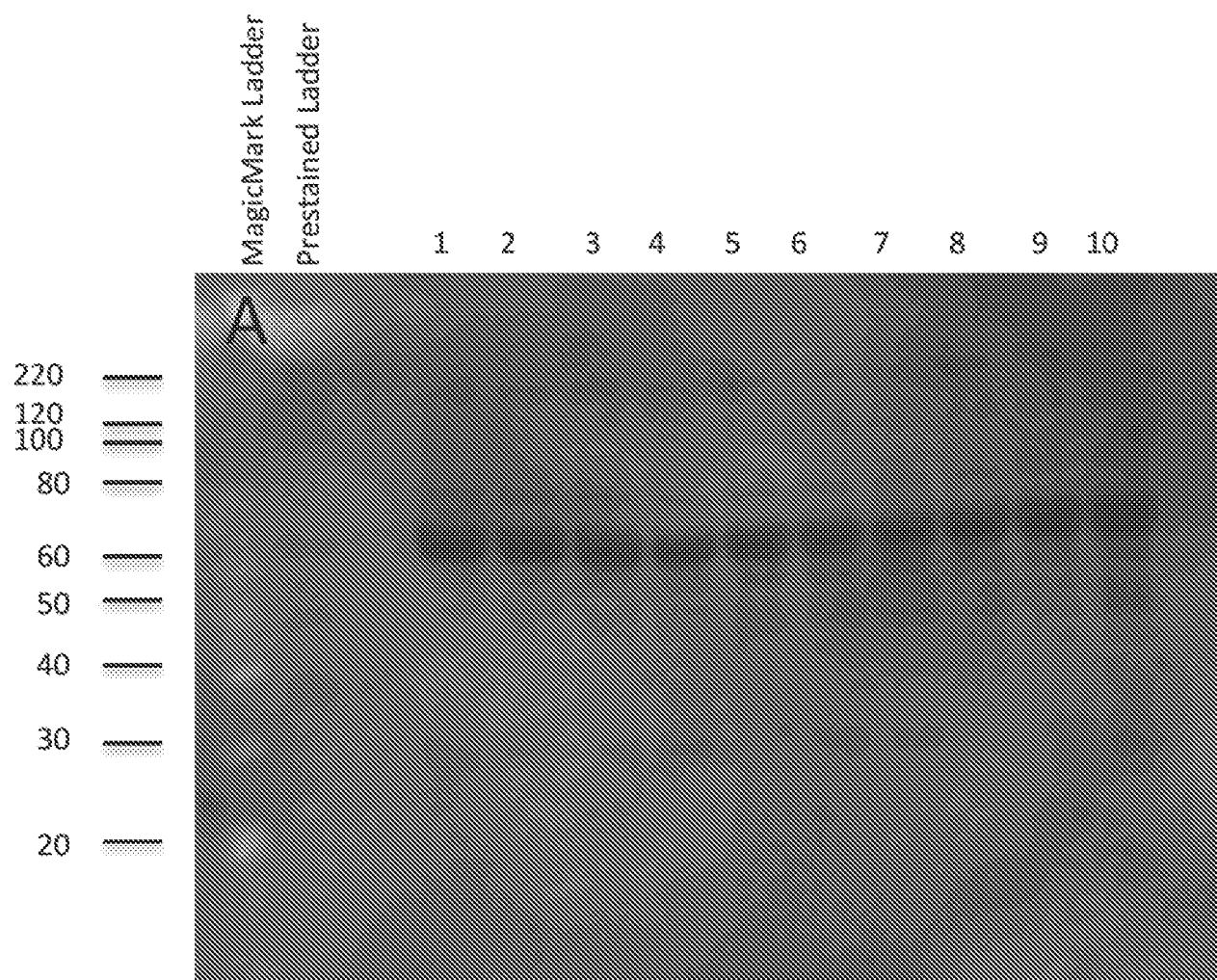


FIG. 21D3



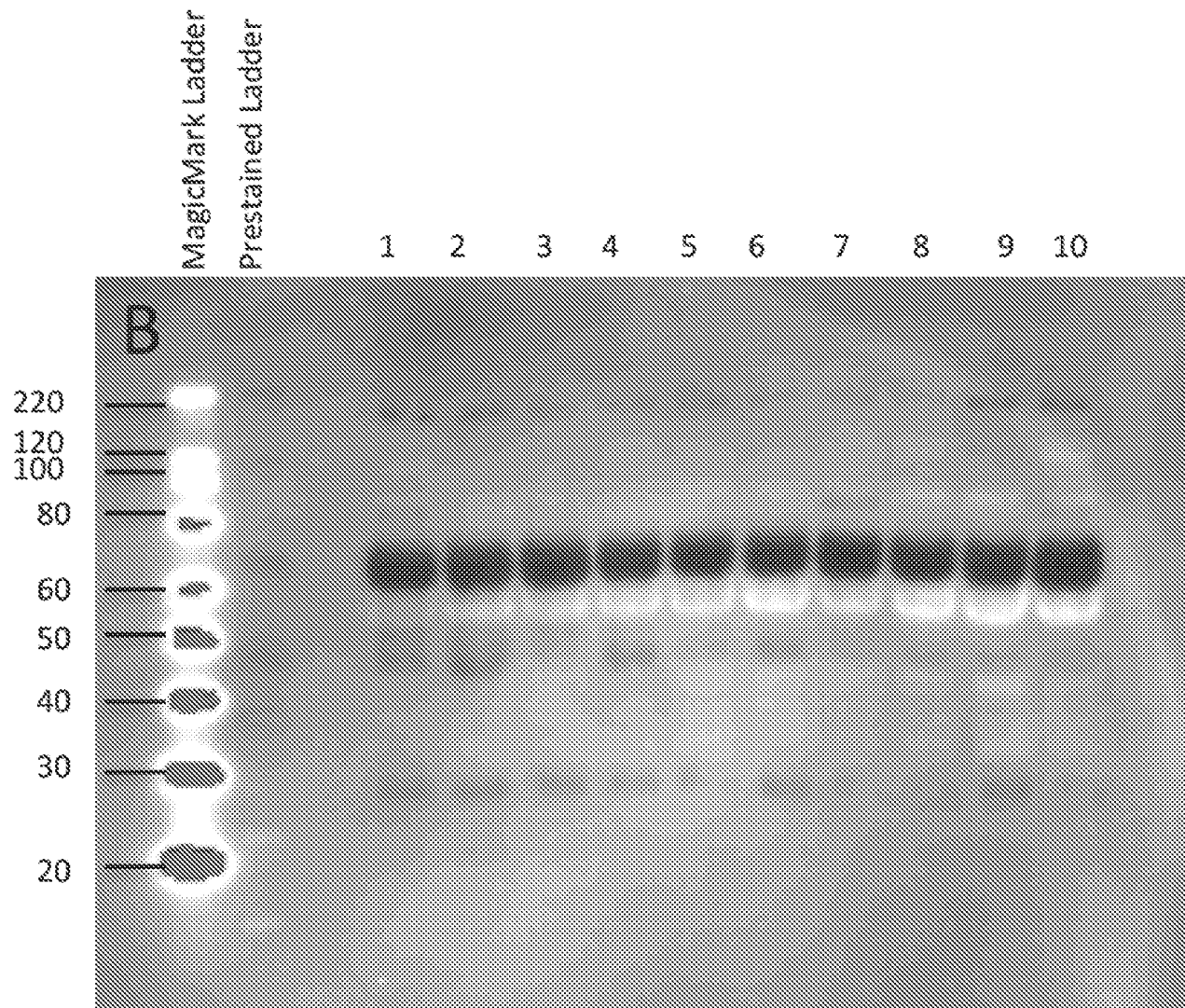
Lane #	Sample #	Subject	Year	Age	Sex	Worst Eye	Genotype at chromo 1 and 10
1	A 11	742-10	2010	78	M	0	no risk
2	A 12	847-10	2010	80	F	0	no risk
3	B 23	746-10	2010	75	M	48	no risk
4	B 24	753-10	2010	80	F	48	no risk
5	C 35	768-10	2010	84	F	48	risk at both loci
6	C 36	815-10	2010	74	M	48	risk at both loci
7	D 47	150	2011	75	F	48	risk at 10 only
8	D 48	205	2011	88	F	48	risk at 10 only
9	E 59	267	2011	77	M	48	risk at 1 only
10	E 60	364	2011	82	M	48	risk at 1 only

FIG. 22



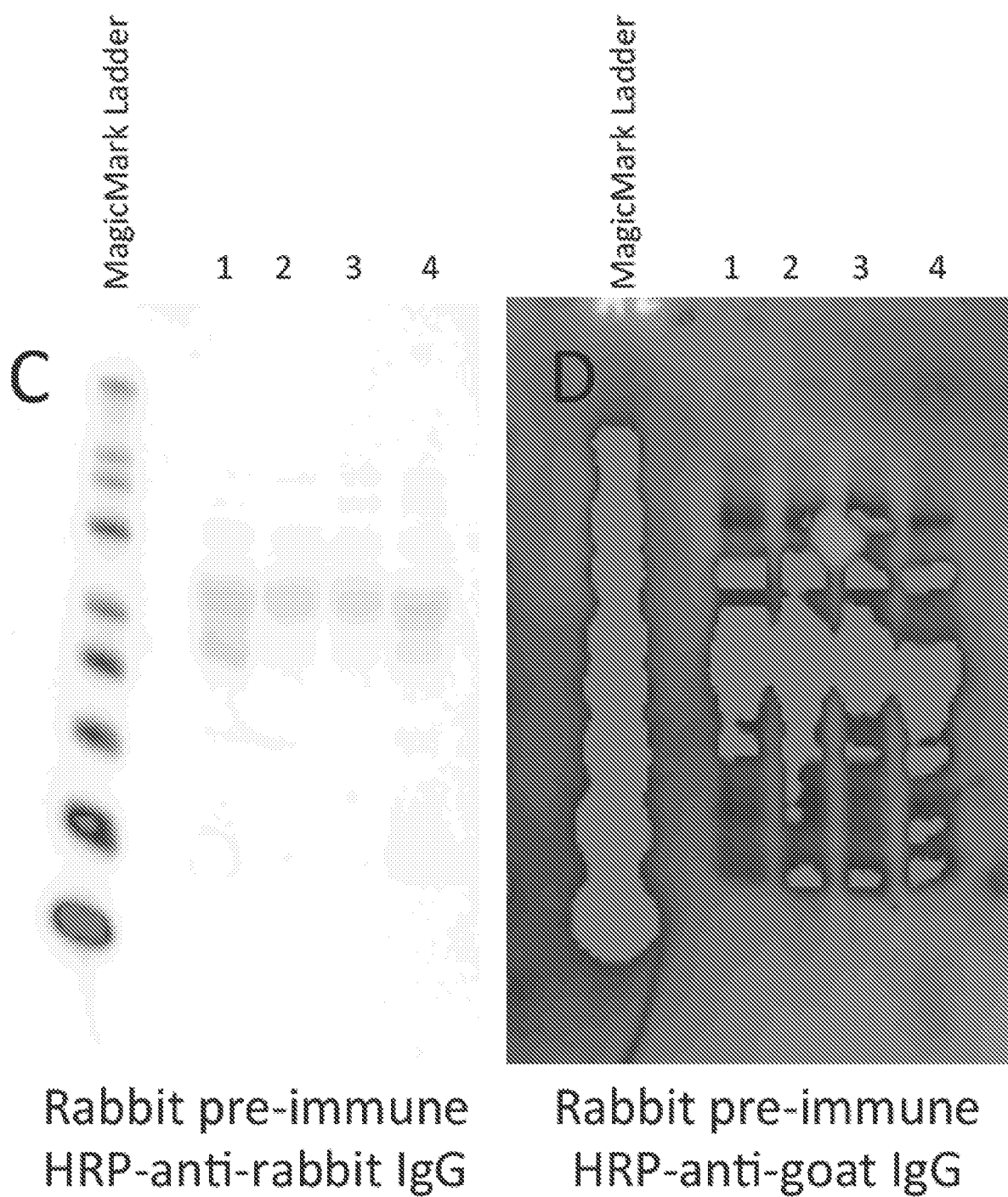
HRP-anti-rabbit IgG

FIG. 23A

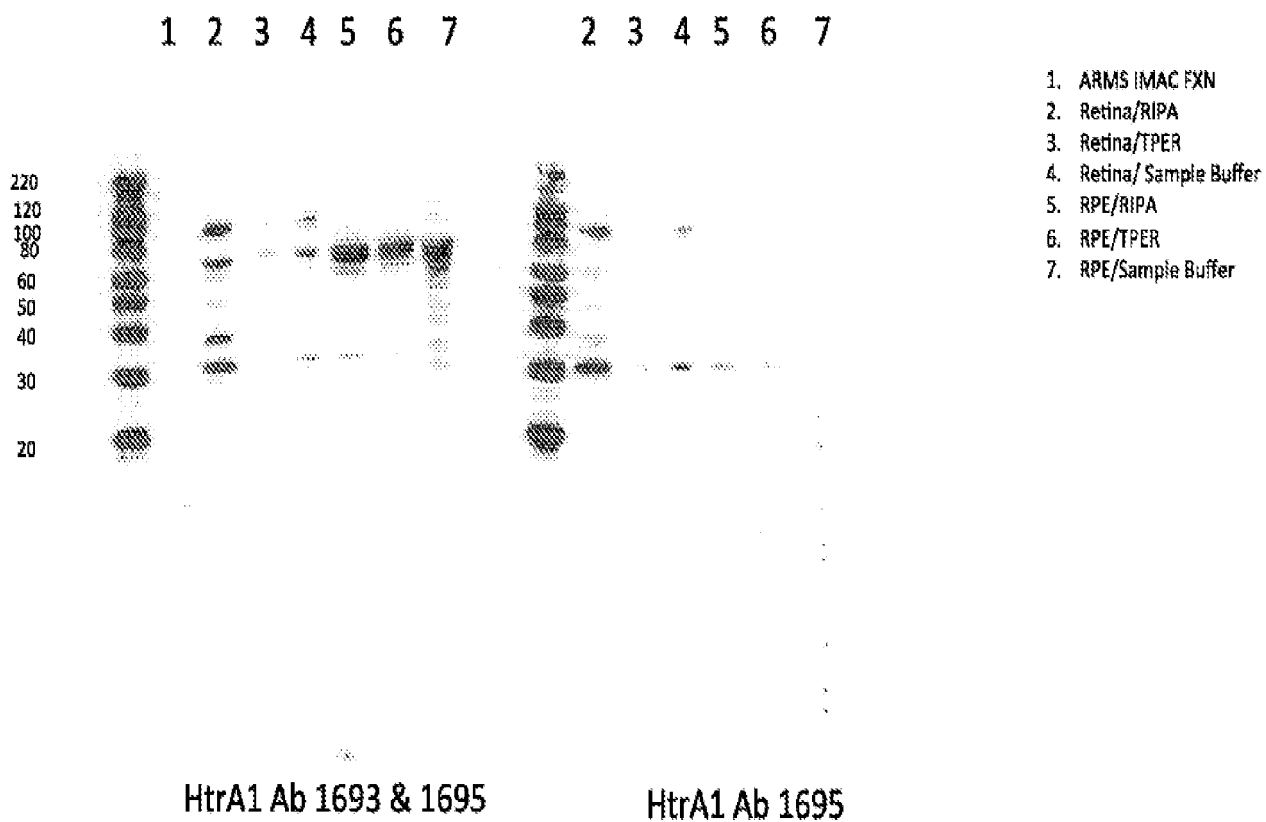


HRP-anti-goat IgG

FIG. 23B

**FIG. 23C**

Retina/RPE Extracts

**FIG. 24A**

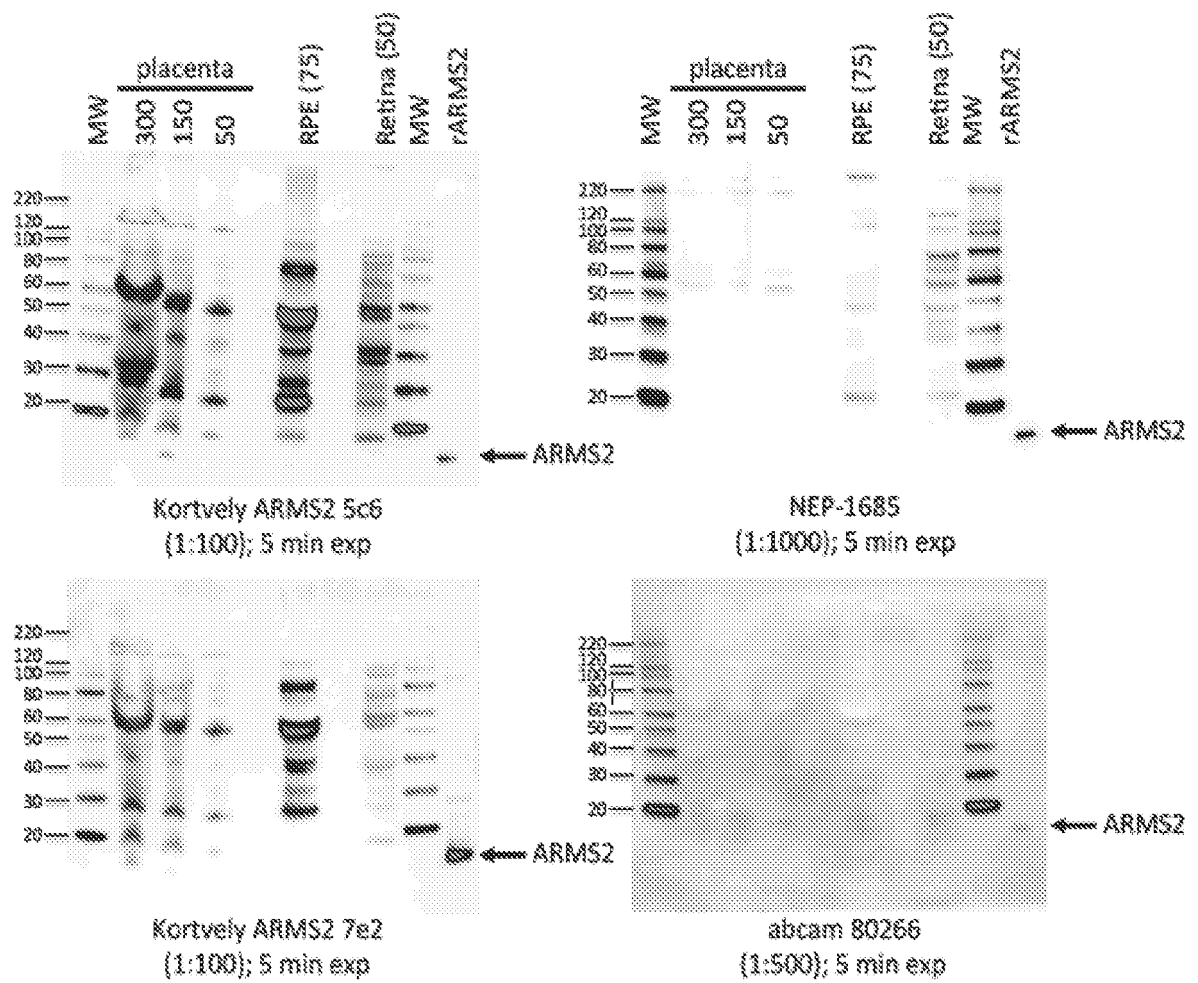


FIG. 24B

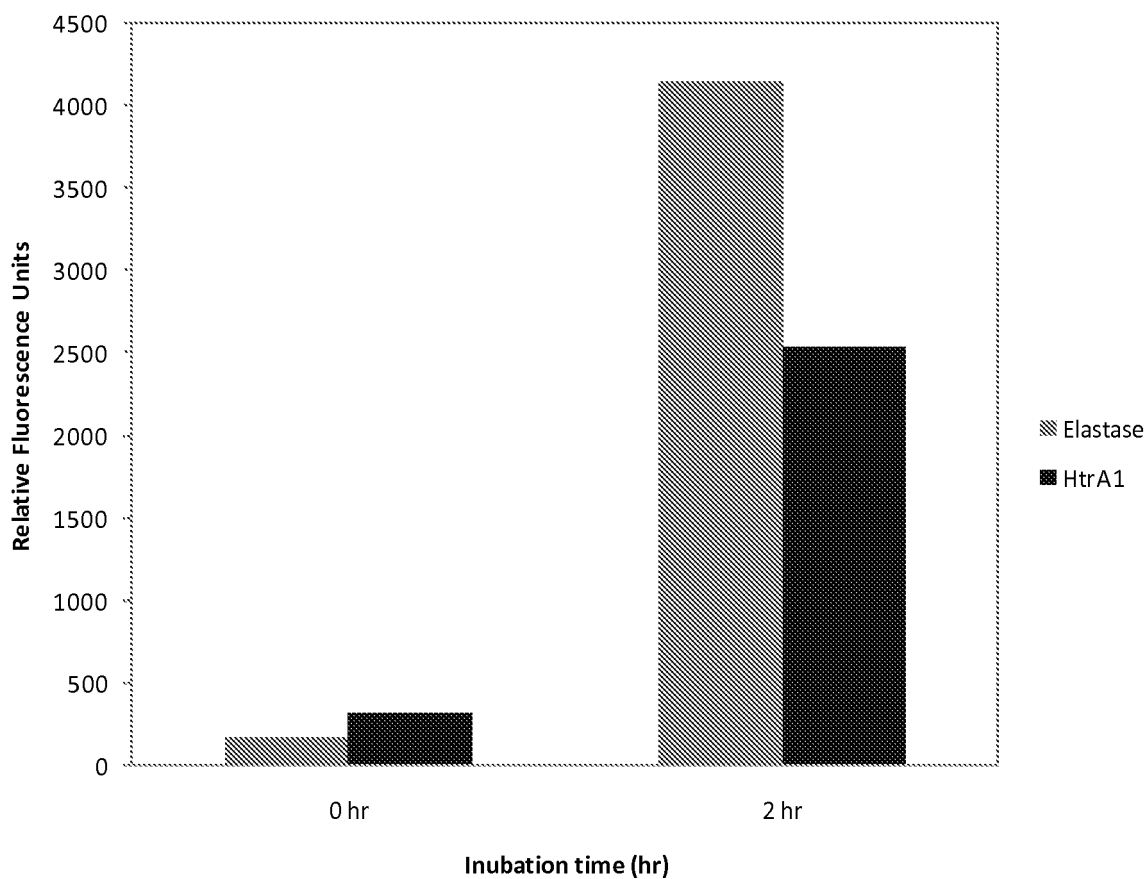


FIG. 25

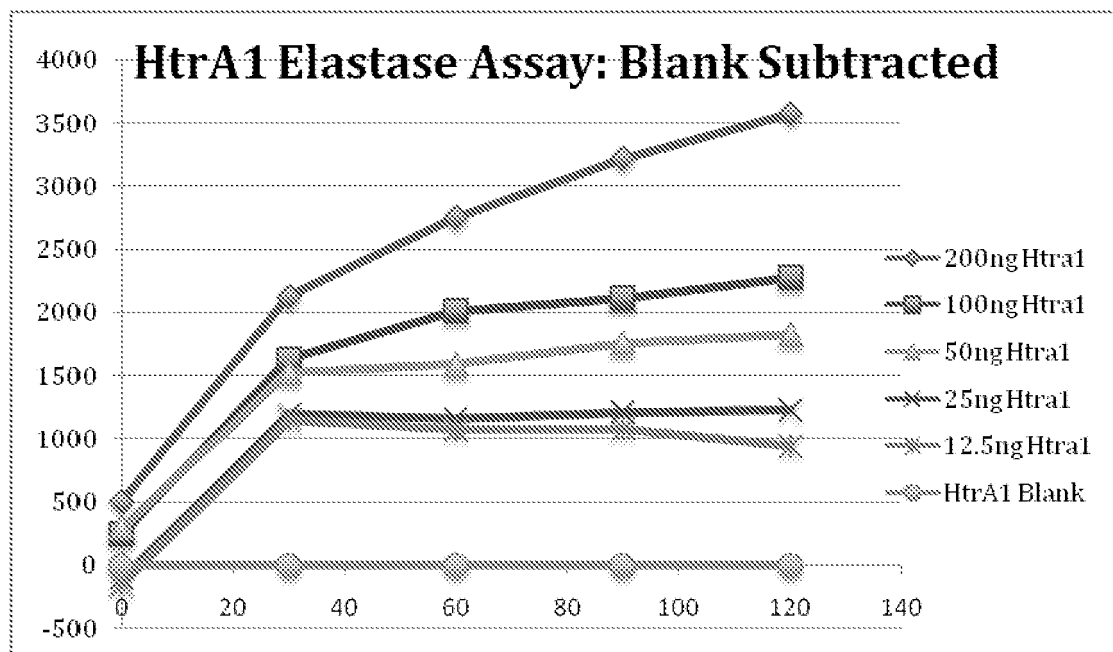


FIG. 26

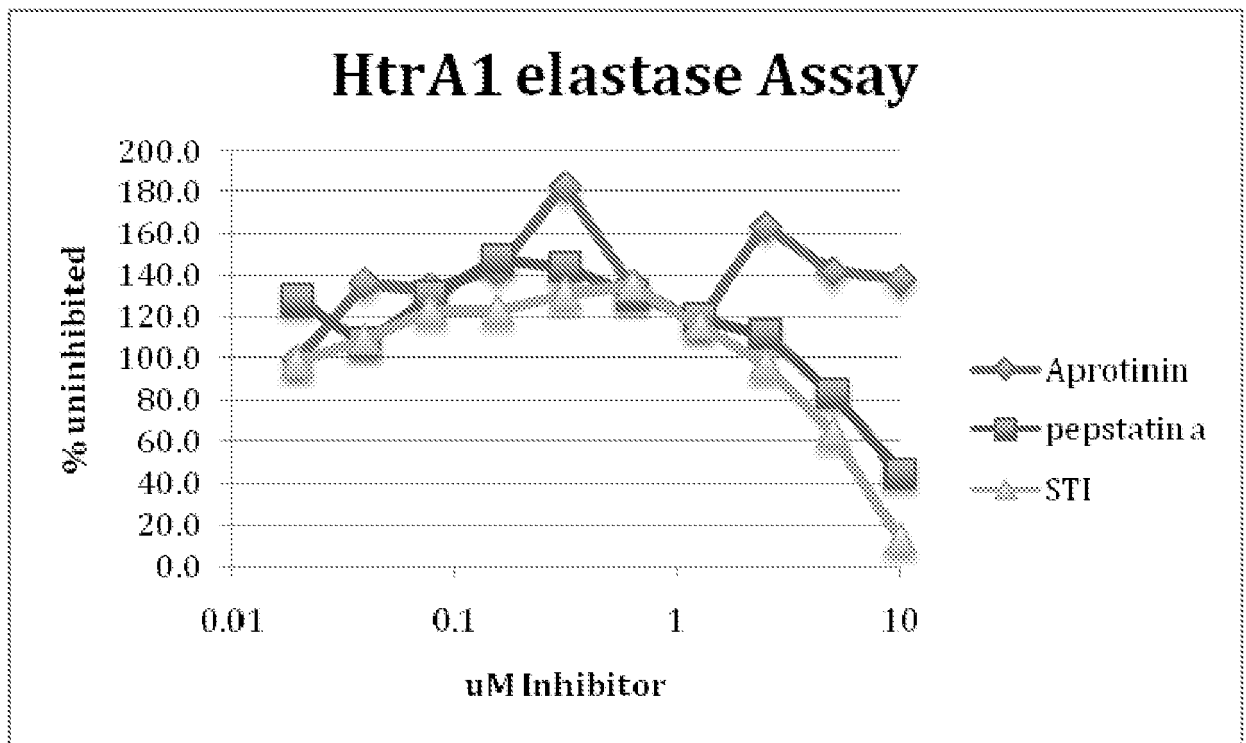


FIG. 27

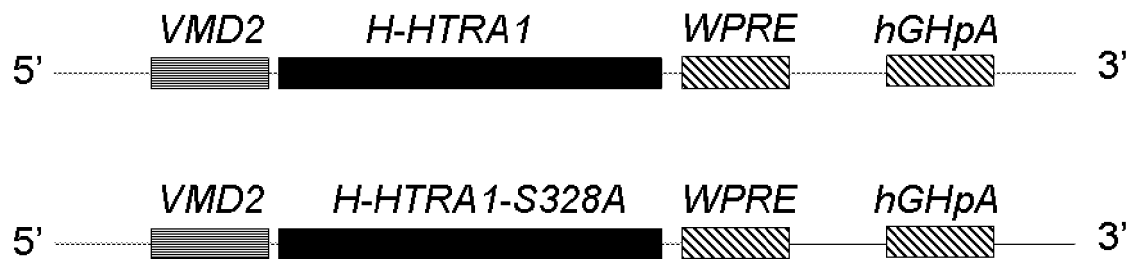


FIG. 28

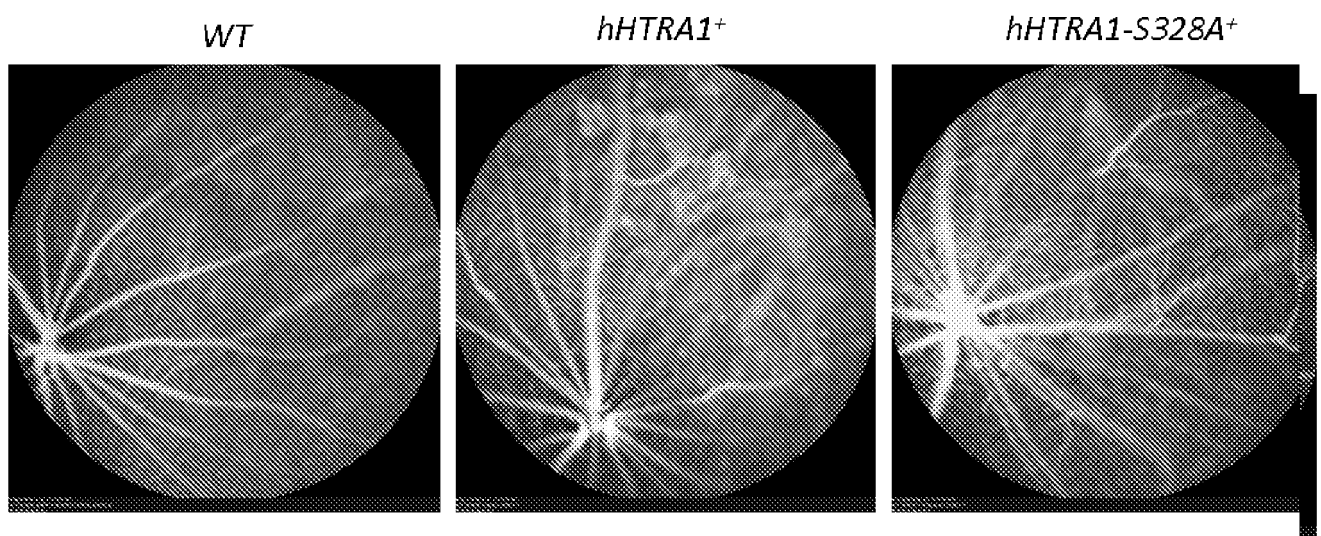


FIG. 29

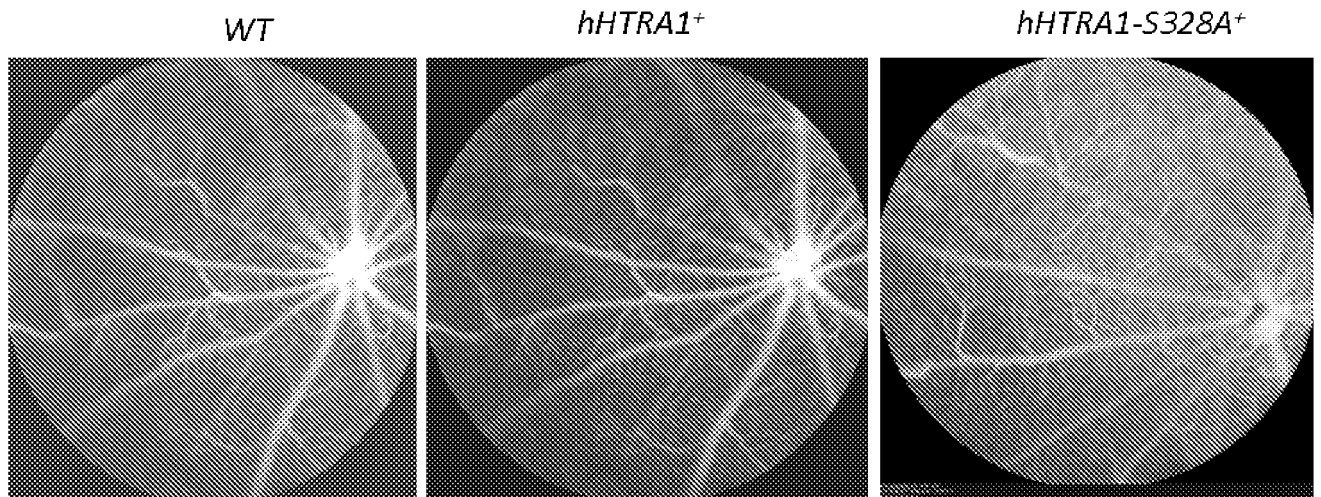


FIG. 30

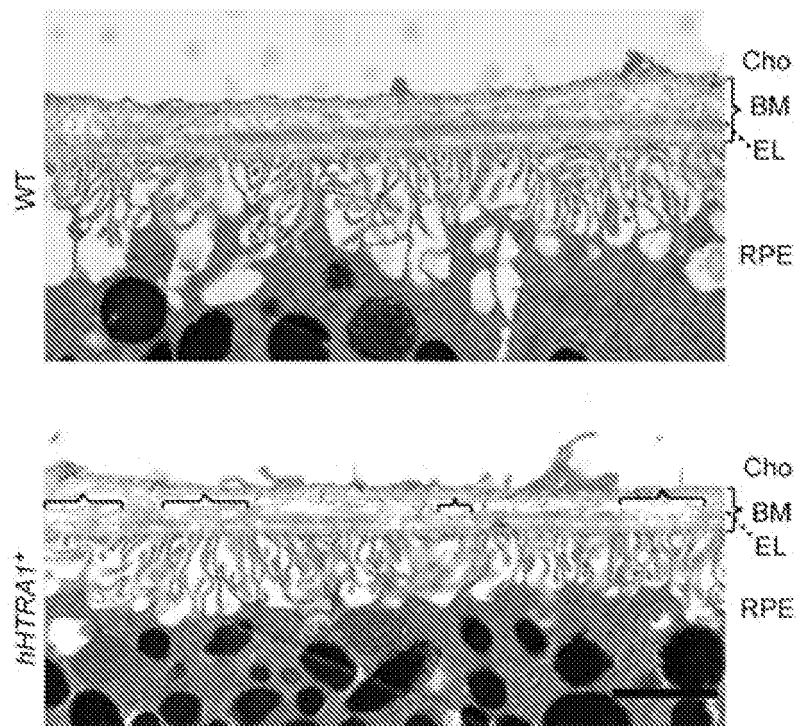


FIG. 31

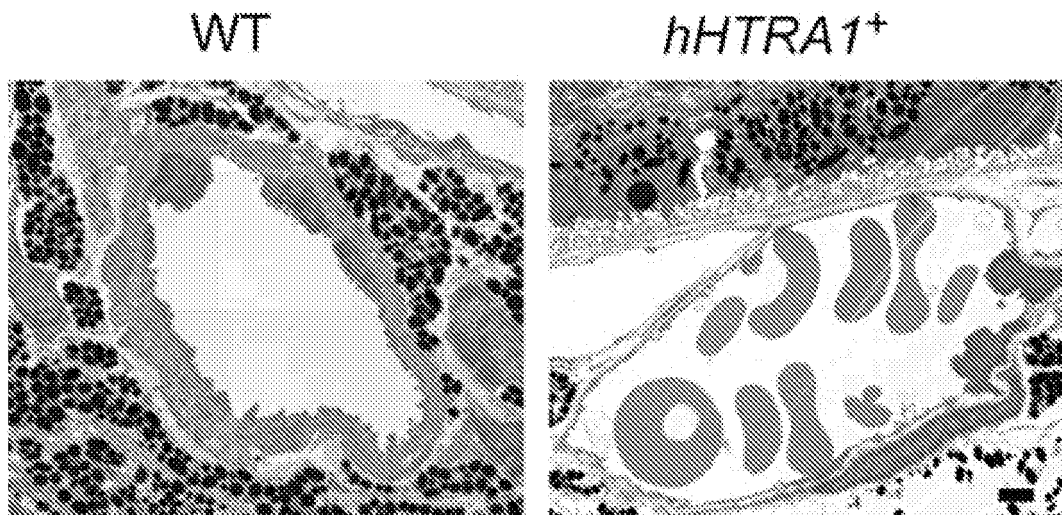


FIG. 32

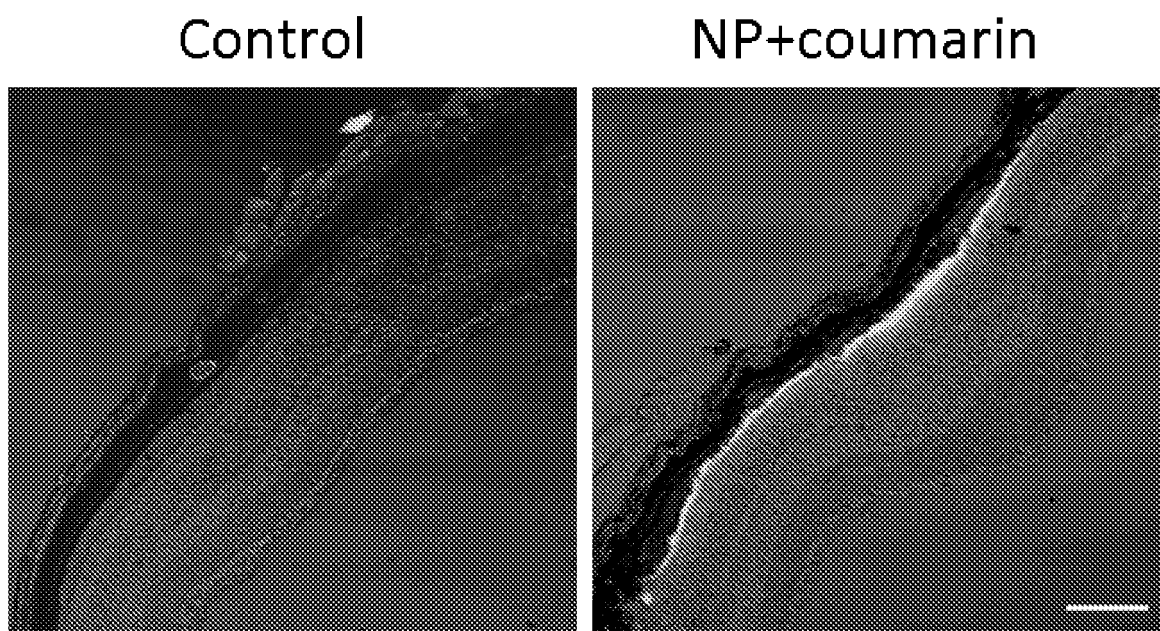
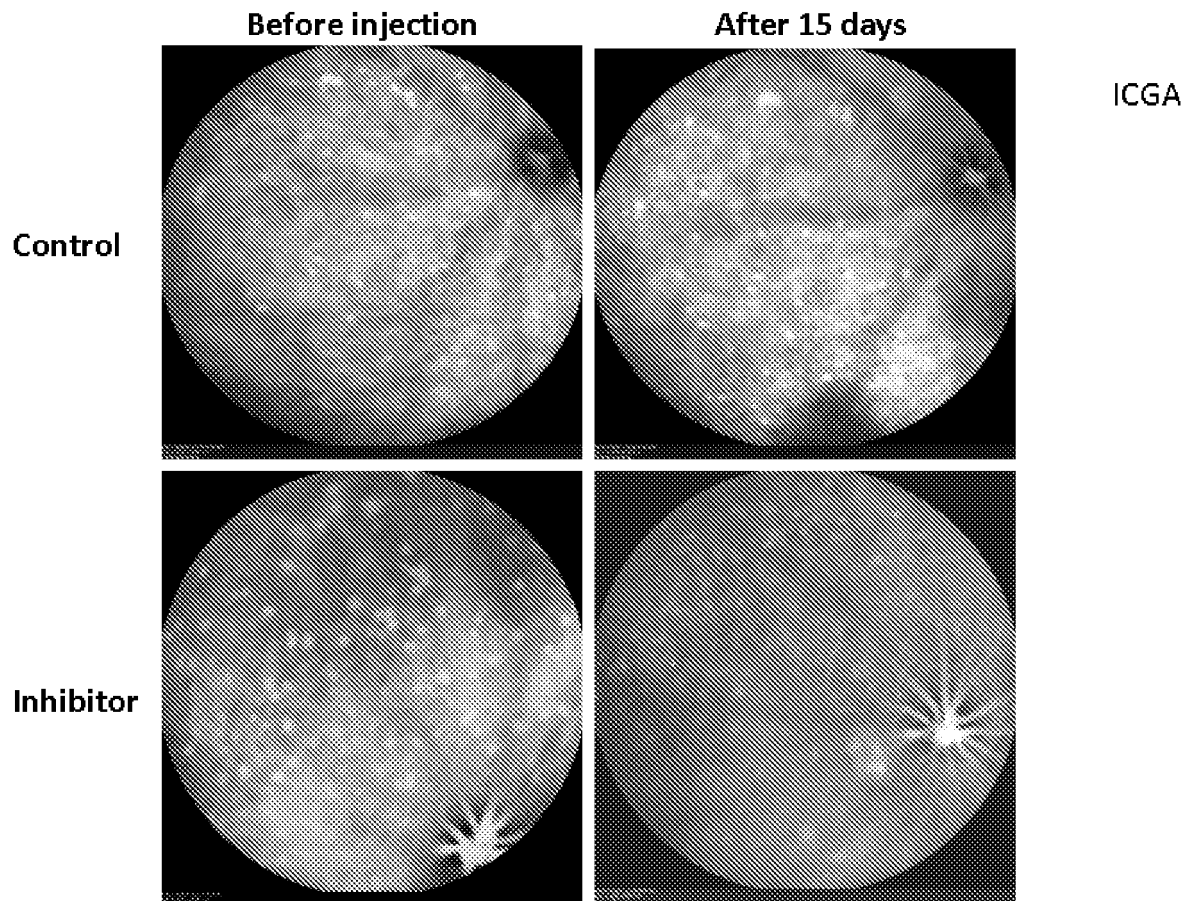
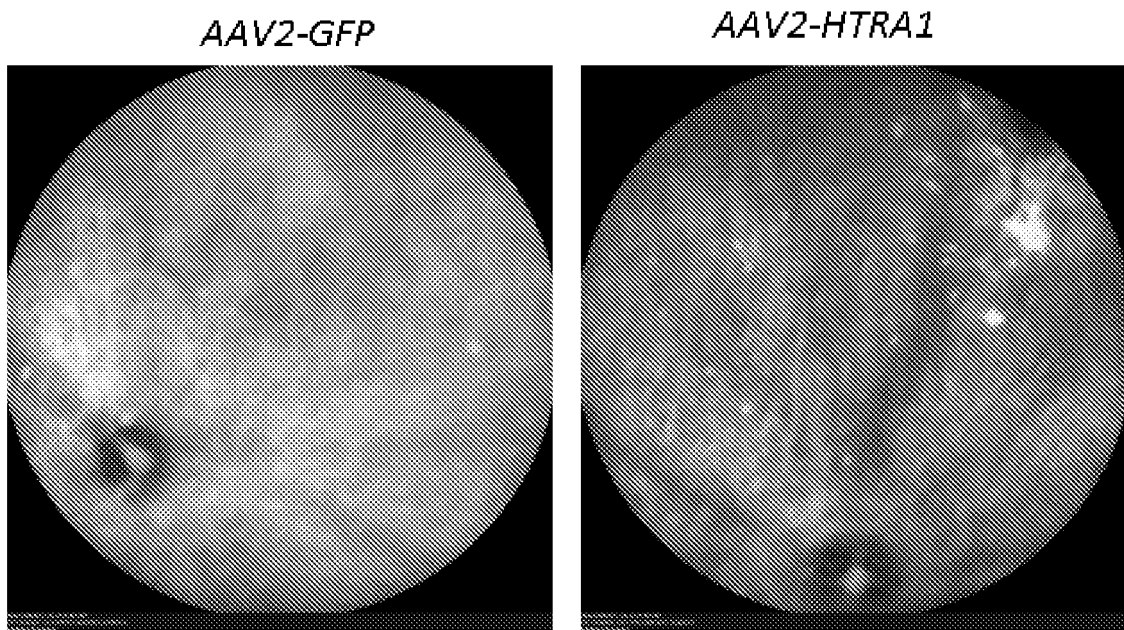
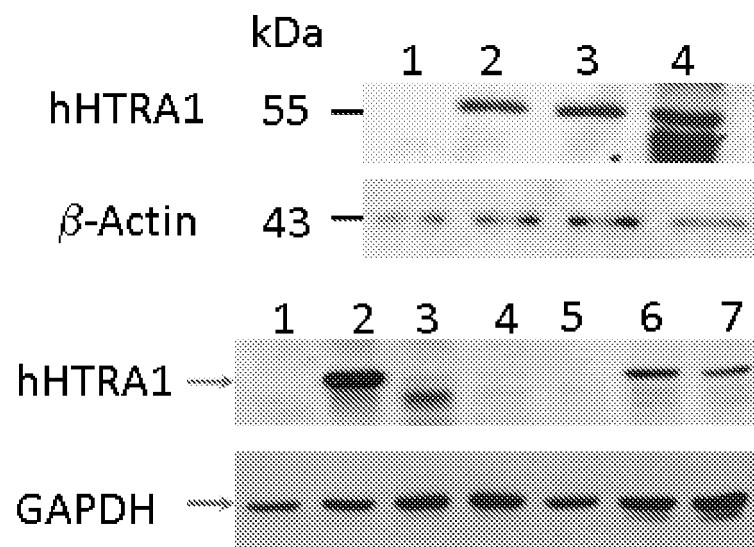


FIG. 33

**FIG. 34****FIG. 35**

**FIG. 36****FIG. 37**

Chr10/Chr1 Diplotypes					
rs10490924/rs1061170					
Phenotype	Total Genotyped	TGCC (risk/risk)	TTCT (risk/risk)	GACT (nr/nr)	GTCG (het/het)
ACL Yes	377	22 5.8%	16 4.2%	43 11.4%	24 6.4%
ACL No	406	11 2.7%	9 2.2%	53 13.1%	60 14.8%
*chr10: T=risk, chr1: C=risk (e.g. GGCC=chr10 homo non-risk, chr1 homo risk)					
% of ACL cohort		4.2%	3.2%	12.3%	10.7%
Normalized ACL		1.384615	1.32923	0.93029	0.59341
Normalized ACL rank		1	3	7	9
				ACL	chr10
				1	TT
				2	TT
				3	TT
				4	GT
				5	GT
				6	GT
				7	GG
				8	GG
				9	GG

Gene Region	Name	Assoc Allele	Case,Control Ratio Counts	Case,Control Freqs	Chi square	P value
CFH-F13B	rs35928059	A	734:22, 783:29	0.971, 0.964	0.544	0.4607
CFH-F13B	rs3753394	T	202:554, 214:610	0.267, 0.260	0.114	0.7357
CFH-F13B	rs551397	C	657:103, 678:148	0.864, 0.821	5.661	0.0173
CFH-F13B	rs800292	G	653:103, 678:148	0.864, 0.821	5.451	0.0196
CFH-F13B	rs16840419	A	709:51, 741:85	0.933, 0.897	6.471	0.011
CFH-F13B	rs3766404	T	699:55, 733:85	0.927, 0.896	4.638	0.0313
CFH-F13B	rs16840422	C	700:56, 743:85	0.926, 0.897	3.981	0.046
CFH-F13B	rs1061147	A	426:334, 417:411	0.561, 0.504	5.152	0.0232
CFH-F13B	rs1329421	A	425:331, 416:410	0.562, 0.504	5.432	0.0198
CFH-F13B	rs10801554	C	418:326, 408:404	0.562, 0.502	5.494	0.0191
CFH-F13B	rs1061170	C	425:335, 416:410	0.559, 0.504	4.909	0.0267
CFH-F13B	rs12124794	A	666:92, 689:135	0.879, 0.836	5.792	0.0161
CFH-F13B	rs6695321	T	520:236, 559:269	0.688, 0.675	0.294	0.5877
CFH-F13B	rs2274700	G	587:169, 576:248	0.776, 0.699	12.166	5.00E-04
CFH-F13B	rs3753395	A	588:170, 581:249	0.776, 0.700	11.696	6.00E-04
CFH-F13B	rs393955	C	449:309, 443:381	0.592, 0.538	4.808	0.0283
CFH-F13B	rs3753396	G	139:617, 133:695	0.184, 0.161	1.5	0.2207
CFH-F13B	rs403846	A	446:310, 444:382	0.590, 0.538	4.407	0.0358
CFH-F13B	rs1410996	G	585:169, 577:249	0.776, 0.699	12.11	5.00E-04
CFH-F13B	rs12144939	G	686:72, 717:111	0.905, 0.866	5.918	0.015
CFH-F13B	rs2284664	C	659:97, 690:136	0.872, 0.835	4.151	0.0416
CFH-F13B	rs35292876	T	14:746, 8:818	0.018, 0.010	2.208	0.1373
CFH-F13B	rs1065489	T	141:619, 135:693	0.186, 0.163	1.395	0.2376
CFH-F13B	rs11582939	T	140:618, 136:692	0.185, 0.164	1.151	0.2834
CFH-F13B	mrd_3876	G	9:751, 7:821	0.012, 0.008	0.456	0.4995
CFH-F13B	mrd_3877	T	14:744, 6:816	0.018, 0.007	3.937	0.0472
CFH-F13B	rs7546940	A	114:638, 111:707	0.152, 0.136	0.807	0.3691
CFH-F13B	rs12406509	G	17:737, 15:807	0.023, 0.018	0.365	0.5456
CFH-F13B	rs1409153	C	432:318, 422:402	0.576, 0.512	6.452	0.0111
CFH-F13B	rs12066959	G	633:119, 671:151	0.842, 0.816	1.79	0.1809
CFH-F13B	mrd_3902	T	18:730, 17:799	0.024, 0.021	0.186	0.6661
CFH-F13B	rs3828032	G	589:165, 630:196	0.781, 0.763	0.762	0.3828
CFH-F13B	mrd_3905	G	613:143, 664:160	0.811, 0.806	0.064	0.8001
CFH-F13B	mrd_3906	G	609:143, 660:160	0.810, 0.805	0.062	0.8032
CFH-F13B	rs6702340	G	714:40, 763:53	0.947, 0.935	0.996	0.3183
CFH-F13B	rs9427662	T	719:39, 773:55	0.949, 0.934	1.591	0.2071
CFH-F13B	rs3748557	T	612:146, 656:166	0.807, 0.798	0.217	0.6415

FIG. 39 A

Gene Region	Name	Assoc Allele	Case,Control Ratio Counts	Case,Control Freqs	Chi square	P value
CFH-F13B	rs12097550	A	11:747, 10:816	0.015, 0.012	0.175	0.6759
CFH-F13B	rs1750311	C	569:185, 605:223	0.755, 0.731	1.184	0.2765
CFH-F13B	rs10922153	G	488:266, 489:339	0.647, 0.591	5.36	0.0206
CFH-F13B	rs698859	T	337:421, 350:478	0.445, 0.423	0.772	0.3796
CFH-F13B	rs5998	A	374:380, 401:425	0.496, 0.485	0.176	0.6752
CFH-F13B	rs2990510	G	299:457, 310:518	0.396, 0.374	0.744	0.3884
CFH-F13B	rs10801586	C	680:80, 710:116	0.895, 0.860	4.521	0.0335
CFH-F13B	rs5991	A	5:745, 5:823	0.007, 0.006	0.025	0.8752
CFH-F13B	rs17514281	C	5:737, 3:815	0.007, 0.004	0.719	0.3964
CFH-F13B	rs5997	C	710:40, 774:52	0.947, 0.937	0.662	0.4159
CFH-F13B	rs1615413	A	379:379, 402:424	0.500, 0.487	0.28	0.5964
CFH-F13B	rs6003	T	713:39, 763:53	0.948, 0.935	1.214	0.2705
CFH-F13B	rs1412631	C	720:40, 772:52	0.947, 0.937	0.793	0.3732
CFH-F13B	rs6428380	C	714:40, 770:52	0.947, 0.937	0.746	0.3878
C2	rs9332739	G	735:23, 798:26	0.970, 0.968	0.019	0.8896
C2	rs547154	G	725:35, 774:56	0.954, 0.933	3.373	0.0663
CFB	rs4151667	A	23:719, 22:788	0.031, 0.027	0.202	0.6527
PLEHKA1	rs12571218	A	681:41, 695:45	0.943, 0.939	0.107	0.7437
PLEHKA1	rs4565845	C	165:577, 122:626	0.222, 0.163	8.414	0.0037
PLEHKA1	rs4751890	T	518:218, 484:262	0.704, 0.649	5.12	0.0237
PLEHKA1	rs10082476	A	598:146, 577:171	0.804, 0.771	2.336	0.1264
PLEHKA1	rs10887148	C	634:108, 621:127	0.854, 0.830	1.647	0.1994
PLEHKA1	rs11200616	G	2:738, 2:746	0.003, 0.003	0	0.9914
PLEHKA1	rs11200617	T	2:740, 2:744	0.003, 0.003	0	0.9957
PLEHKA1	rs10887149	G	554:182, 526:218	0.753, 0.707	3.923	0.0476
PLEHKA1	rs11200621	G	131:611, 111:635	0.177, 0.149	2.104	0.1469
PLEHKA1	rs10510110	C	462:276, 387:357	0.626, 0.520	16.966	3.80E-05
intergenic	rs4752695	G	681:61, 650:96	0.918, 0.871	8.514	0.0035
intergenic	rs2223089	G	690:50, 691:55	0.932, 0.926	0.215	0.6432
ARMS2 R38X	rs2736911	C	674:66, 651:95	0.911, 0.873	5.599	0.018
ARMS2 A69S	rs10490924	T	325:417, 224:520	0.438, 0.301	29.901	4.55E-08
ARMS2	rs17623531	C	667:63, 642:102	0.914, 0.863	9.564	0.002
intergenic	rs2014307	G	514:230, 490:260	0.691, 0.653	2.386	0.1224
HTRA1 prom.	rs11200638	A	321:417, 239:501	0.435, 0.323	19.691	9.10E-06

FIG. 39 B

Gene Region	Name	Assoc Allele	Case,Control Ratio Counts	Case,Control Freqs	Chi square	P value
HTRA1 prom.	rs2672598	C	454:288, 393:349	0.612, 0.530	10.235	0.0014
HTRA1	rs12571363	C	686:58, 688:62	0.922, 0.917	0.112	0.7377
HTRA1	rs12259258	G	9:733, 9:739	0.012, 0.012	0	0.9863
HTRA1	rs2736914	G	669:75, 648:100	0.899, 0.866	3.896	0.0484
HTRA1	rs2672591	T	443:295, 382:362	0.600, 0.513	11.319	8.00E-04
HTRA1	rs4752699	G	666:72, 636:110	0.902, 0.853	8.582	0.0034
HTRA1	rs2672590	A	615:125, 588:156	0.831, 0.790	4.015	0.0451
HTRA1	rs7093894	C	665:77, 631:119	0.896, 0.841	9.849	0.0017
HTRA1	rs2672588	T	600:138, 555:189	0.813, 0.746	9.683	0.0019
HTRA1	rs2672587	G	315:419, 226:514	0.429, 0.305	24.29	8.28E-07
HTRA1	rs4237540	A	470:272, 428:322	0.633, 0.571	6.13	0.0133
HTRA1	rs2736917	A	646:96, 623:125	0.871, 0.833	4.198	0.0405
HTRA1	rs2284668	T	619:123, 599:145	0.834, 0.805	2.132	0.1443
HTRA1	rs2253755	G	325:419, 259:491	0.437, 0.345	13.132	3.00E-04
HTRA1	rs2300431	G	585:159, 551:193	0.786, 0.741	4.302	0.0381
HTRA1	rs2268346	G	706:36, 701:49	0.951, 0.935	1.963	0.1612
HTRA1	rs736962	G	15:723, 15:731	0.020, 0.020	0.001	0.9762
HTRA1	rs2736923	A	678:66, 665:85	0.911, 0.887	2.493	0.1144
HTRA1	rs11200655	C	689:51, 677:67	0.931, 0.910	2.264	0.1324
HTRA1	rs876790	T	609:133, 573:165	0.821, 0.776	4.522	0.0335
HTRA1	rs2250804	C	334:408, 263:483	0.450, 0.353	14.746	1.00E-04
HTRA1	rs2268356	C	416:322, 360:386	0.564, 0.483	9.784	0.0018
C3	rs2230199	C	569:189, 617:209	0.751, 0.747	0.029	0.8658
APOE	rs429358	T	661:77, 679:111	0.896, 0.859	4.626	0.0315
APOE	rs7412	C	687:53, 728:66	0.928, 0.917	0.708	0.4001

FIG. 39 C

PLEKHA1-HTRA1 Haplotype	rs12571218	rs4565845	rs4751890	rs10082476	rs10887148	rs11200616	rs11200617	rs10887149	rs11200621	rs10510110	rs4752695	rs2223089	rs2736911	rs10490924	rs17623531	rs2014307	rs11200638	rs2672598	rs12571363	rs12259258	rs2736914	rs2672591	rs4752699	rs2672590	rs7093894	rs2672588	rs2672587	rs4237540	rs2736917	rs2284668	rs2253755	rs2300431	rs2268346	rs736962	rs2736923	rs11200655	rs876790	rs2250804	rs2268356					
	ACTACAGACGGCTGACCTGACTGAATGGGAACCTC	A	C	T	A	C	A	C	G	A	C	G	G	C	T	C	G	A	C	A	C	A	G	T	G	A	C	T	G	A	A	T	G	G	G	A	A	C	T	C	C			
AATACACGGCGCTCGAACGAGTGAATGGGAACCTC	A	A	T	A	C	A	C	G	G	C	G	G	C	T	C	G	A	C	C	A	C	A	G	T	G	A	C	T	G	A	A	T	G	G	G	A	A	C	T	C	C			
AATACAGACGGCTGACCTGACTGAATGGGAACCTC	A	A	T	A	C	A	C	G	A	C	G	G	C	T	C	G	A	C	C	A	C	A	G	T	G	A	C	T	G	A	A	T	G	G	G	A	A	C	T	C	C			
AACACACAATGGTGGGCGACTGCCAGTAGGAACCTT	A	A	C	A	C	A	C	A	A	T	G	G	G	T	G	C	G	G	C	C	A	C	T	G	C	C	C	C	C	A	G	T	A	G	G	A	A	C	T	T	T			
AACGAACAATGGGCTGOCAGAGACCGGATAAAACCTC	A	A	C	G	A	C	A	C	A	T	G	G	C	C	T	G	C	C	C	C	A	G	A	G	A	C	C	C	G	A	T	A	A	A	A	A	A	C	C	T	C			
AATACACGCGCTCGACCGTACTGGATAGGAACCTT	A	A	T	A	C	A	C	G	A	C	G	G	C	T	C	G	A	C	C	A	G	T	G	A	C	T	G	A	T	G	G	A	A	A	A	A	A	C	T	T	T			
AACGAACAATGGGCTGTGACAGACTCAACAAGAACTT	A	A	C	G	A	C	A	C	A	T	G	G	C	C	T	G	T	C	C	A	G	A	G	A	G	A	C	T	C	A	C	A	A	G	A	A	A	A	C	T	T			
AACGAACAATGGGCTGTGACAGACTCGATAGGAACCTT	A	A	C	G	A	C	A	C	A	T	G	G	C	C	T	G	T	C	C	A	G	A	G	A	G	A	C	T	C	G	A	T	A	G	G	A	A	A	C	T	T			
AATACACGATGGGCTGTCAGAAAATCGATAGGAACCTC	A	A	T	A	C	A	C	G	A	T	C	G	C	G	T	G	G	T	C	C	A	G	A	A	A	A	A	T	C	G	A	T	A	G	G	A	A	A	C	T	C			
AATACACGATGGGCTGTCAGAAAATCGACAAGAGGCTT	A	A	T	A	C	A	C	G	A	T	C	G	C	G	T	G	G	T	C	C	A	G	A	A	A	A	A	T	C	G	A	C	A	A	G	A	G	C	T	T				
AATACAGGGGGGCTGTGACAGACTGAATGGGAACCTC	A	A	T	A	C	A	C	G	G	C	G	G	C	C	C	T	G	A	C	C	A	G	A	G	A	C	T	G	A	T	G	G	A	A	A	A	A	A	C	T	C			
ACTACAGACGGCTGACCGTACTGAATAGGAACCTT	A	C	T	A	C	A	C	G	A	C	G	G	C	T	C	G	A	C	C	A	G	T	G	A	C	T	G	A	T	A	G	A	T	A	G	G	A	A	C	T	T			
AATACAGGGGGGCTGTGACAGACTCAGTAGGAACCTT	A	A	T	A	C	A	C	G	G	C	G	G	C	C	C	T	G	T	C	C	A	G	A	G	A	C	T	C	A	G	T	A	G	G	A	A	A	A	C	T	T			
AATACAGGGGGGCTGTGACAGACTCGACAAGAACCTC	A	A	T	A	C	A	C	G	G	C	G	G	C	C	C	T	G	T	C	C	A	G	A	A	G	A	C	T	C	G	A	C	A	A	G	A	A	A	C	T	C			
AACACACAATGGTGGGCGACTGCCGATAGGAACCTT	A	A	C	A	C	A	C	G	A	T	G	G	C	C	C	G	T	C	C	A	G	T	G	C	C	C	C	C	C	A	T	G	G	A	A	A	A	A	C	T	T			
AATACAGATGGGCTGTCAGAAAATCAATGGGAACCTC	A	A	T	A	C	A	C	G	A	T	C	G	C	G	T	G	G	T	C	C	A	G	A	A	A	A	A	T	C	A	T	G	G	A	A	A	A	A	C	T	C			
GACGACGATGCCGGTAAGTGCCCAATGGGAACCTT	G	A	C	G	C	A	C	G	A	T	G	C	C	C	C	C	G	G	T	A	A	G	T	G	C	C	C	C	C	C	A	T	G	G	A	A	A	A	A	C	T	C		
AATACAGATGGGCTGTCAGAAAATCGACAAGAACCTC	A	A	T	A	C	A	C	G	A	T	C	G	C	G	T	G	G	T	C	C	A	G	A	A	A	A	A	T	C	G	A	C	A	A	G	A	A	A	A	C	T	C		
AATACAGACGGGCTGTGACAGACTCAGTAGGAACCTT	A	A	T	A	C	A	C	G	A	C	G	C	C	C	C	T	G	T	C	C	A	G	A	G	A	C	T	C	C	A	G	T	A	G	G	A	A	A	A	C	T	T		
ACTACAGACGGCGGTAAAGTGCATCGACAAGGGCCTC	A	C	T	A	C	A	C	G	A	C	G	C	C	C	C	C	G	G	T	A	A	G	T	G	C	A	T	C	G	A	C	A	A	G	G	A	A	A	G	C	C	C		
AATACAGGGGGGCTGTGACAGACTCAATGGGAACCTC	A	A	T	A	C	A	C	G	G	C	G	G	C	C	C	C	T	G	T	C	A	G	A	G	A	C	T	C	C	A	T	G	G	G	A	A	A	A	A	C	T	C		
AATACAGACGGGCTGTGACAGACTCGATAGGAACCTT	A	A	T	A	C	A	C	G	A	C	G	A	G	C	C	T	G	T	C	C	A	G	A	G	A	C	T	C	G	A	T	A	G	G	A	A	A	A	A	C	T	T		
GACGACGATGCCGGTAAGTGCCCAATGGGAACCTC	G	A	C	G	C	A	C	G	A	T	G	C	C	C	C	C	G	G	T	A	A	G	T	G	C	C	C	C	C	C	A	T	G	G	A	A	A	A	A	C	T	C		
GACGACGATGCCGGGTAAAGTGCCCGATAGGAACCTT	G	A	C	G	C	A	C	G	A	T	G	C	C	C	C	C	G	G	T	A	A	G	T	G	C	C	C	C	C	C	G	A	T	A	G	G	A	A	A	A	C	T	T	
AATACAGACGGGCTGOCAGAGACTCAGTAGGAACCTT	A	A	T	A	C	A	C	G	A	C	G	G	C	C	C	C	T	G	T	C	C	A	G	A	G	A	C	T	C	C	A	G	T	A	G	G	A	A	A	A	C	T	T	
AATACAGACGGGCTGTGACAGACTCGATAGGAACCTT	A	A	T	A	C	A	C	G	A	C	G	A	G	C	C	T	G	T	C	C	A	G	A	G	A	C	T	C	G	A	T	A	G	G	A	A	A	A	A	A	C	T	T	
AATACAGACGGGCTGTGACAGACTCGACAAGAGGCTT	A	A	T	A	C	A	C	G	A	C	G	A	G	C	C	T	G	T	C	C	A	G	A	G	A	C	T	C	G	A	T	A	G	G	A	A	A	A	A	A	G	C	T	T

FIG. 40A

Freq.	Case, Control Ratio Counts	Case,Control Freqs	Chi Square	P Value
0.108	103.2 : 572.2, 55.1 : 605.7	0.153, 0.083	15.402	8.69E-05
0.063	58.3 : 617.2, 33.1 : 627.8	0.086, 0.050	6.913	0.0086
0.058	47.1 : 628.4, 37.6 : 623.3	0.070, 0.057	0.933	0.334
0.048	29.2 : 646.3, 40.5 : 620.4	0.043, 0.061	2.211	0.137
0.031	17.8 : 657.7, 26.7 : 634.1	0.026, 0.040	2.071	0.1501
0.028	26.2 : 649.3, 15.0 : 645.9	0.039, 0.023	2.889	0.0892
0.028	18.6 : 656.9, 21.9 : 638.9	0.028, 0.033	0.368	0.5441
0.027	17.0 : 658.5, 22.3 : 638.5	0.025, 0.034	0.879	0.3486
0.023	12.9 : 662.5, 20.1 : 640.8	0.019, 0.030	1.747	0.1862
0.019	12.2 : 663.3, 16.2 : 644.7	0.018, 0.024	0.659	0.417
0.018	12.7 : 662.8, 13.9 : 647.0	0.019, 0.021	0.083	0.7738
0.017	15.3 : 660.2, 10.2 : 650.7	0.023, 0.015	0.949	0.33
0.017	13.6 : 661.9, 11.5 : 649.4	0.020, 0.017	0.14	0.7085
0.017	13.8 : 661.7, 11.1 : 649.8	0.020, 0.017	0.256	0.6131
0.016	8.8 : 666.7, 15.1 : 645.8	0.013, 0.023	1.833	0.1758
0.016	8.2 : 667.3, 15.4 : 645.5	0.012, 0.023	2.394	0.1218
0.016	8.5 : 667.0, 14.3 : 646.6	0.013, 0.022	1.647	0.1993
0.015	9.5 : 666.0, 12.9 : 648.0	0.014, 0.019	0.605	0.4365
0.015	13.9 : 661.6, 8.4 : 652.5	0.021, 0.013	1.288	0.2565
0.015	11.0 : 664.5, 11.2 : 649.7	0.016, 0.017	0.008	0.9307
0.014	12.6 : 662.8, 8.4 : 652.5	0.019, 0.013	0.791	0.3739
0.013	6.6 : 668.9, 11.7 : 649.1	0.010, 0.018	1.583	0.2084
0.012	11.7 : 663.8, 5.4 : 655.5	0.017, 0.008	2.201	0.138
0.012	6.8 : 668.7, 10.1 : 650.8	0.010, 0.015	0.705	0.401
0.011	10.7 : 664.8, 6.0 : 654.8	0.016, 0.009	1.197	0.2739
0.011	6.6 : 668.9, 9.9 : 651.0	0.010, 0.015	0.757	0.3844

FIG. 40B

CFH-F13B Haplotype	rs39928059	rs39753394	rs551397	rs16840419	rs3766404	rs16840422	rs1061147	rs1329421	rs10801554	rs1061170	rs12124794	rs695321	rs2274700	rs39753395	rs39753396	rs403846	rs1410936	rs12144939	rs2284664	rs35292876	rs1065489	rs1582939	mrd_3876 (rs112797613)	rs7546940	rs12406509 (mrd_3878)	rs1409153	rs12066959	mrd_3902 (rs79351096)	rs3828032	mrd_3905 (rs75816959)	mrd_3906 (rs74188363)	rs6702340	rs9427662	rs3748557	rs12097550	rs1750311	rs10922153	rs698859	rs5998	rs2990510	rs10801586	rs5991	rs17514281	rs5997	rs1615413	rs6003	rs1412631 (mrd_3922)	rs6423830 (rs1115247)			
ACCGATCAACCATGACAAAGCGCGGACGCGGGGTTGGCGGCTTCGTCC	A	C	C	G	A	T	C	A	A	C	C	A	T	G	A	C	A	G	G	C	C	C	C	G	G	A	C	G	C	G	G	G	G	G	T	G	C	G	C	G	G	C	T	T	C	A	T	C	C		
ACCGATCAACCATGACAAAGCGCGGACGCGGGGTTGGGTAATCTTCATCC	A	C	C	G	A	T	C	A	A	C	C	A	T	G	A	C	A	G	G	G	C	C	C	C	G	G	A	C	G	C	G	G	G	G	T	G	C	G	C	G	T	A	T	C	A	T	C	C			
ACTAATCCTTTTATAGAGTGGCGGATACGGGGTTGCTGTTTCGTCC	A	C	T	A	T	C	C	T	T	T	T	T	T	C	A	T	A	A	G	A	G	C	C	C	C	G	A	C	G	C	G	G	G	G	T	G	C	T	C	G	T	T	C	A	T	C	C				
ATCGATCCTTTACGAAGGGGCTTCGAATGCAAGTAGATTATCTTCATCC	A	T	C	G	A	T	C	C	T	T	T	A	C	G	A	G	G	G	G	C	C	T	C	G	A	A	T	G	C	A	A	A	A	G	T	A	G	A	T	A	T	C	T	C	A	T	C	C			
ACCGGCTCTTATATAAGATCCGCGGATGCAGGCTGTGATCATCTTACTT	A	C	C	G	G	C	T	C	T	T	T	A	T	A	T	A	G	A	T	C	C	G	C	G	G	A	T	G	C	A	G	G	T	C	T	G	A	T	C	A	T	C	T	T	A	C	T				
ACTAATCCTTTTATAGAGTGGCGGATACGAAGTAGATTATCTTCATCC	A	C	T	A	A	T	C	C	T	T	T	T	C	A	T	A	A	G	A	G	T	C	G	C	C	G	A	T	A	C	G	A	A	G	T	A	G	A	T	A	T	A	T	C	A	T	C	C			
ACCGATCAACCATGACAAAGCGCGGACGCGGAGTAGATTATCTTCATCC	A	C	G	A	T	C	A	A	C	A	C	A	T	G	A	C	A	G	G	C	C	G	C	C	G	A	C	G	C	G	A	A	G	T	A	G	A	T	A	T	A	T	C	T	C	A	T	C	C		
GTGGATCCTTTATGACAAGGCGCGGACGCGGGGTTGGGTATCTTCATCC	G	T	C	G	A	T	C	C	T	T	T	A	T	G	A	C	A	G	G	C	C	G	C	C	G	A	C	G	C	G	G	G	T	G	C	G	G	T	G	C	G	T	A	T	C	A	T	C	C		
ATCGATCCTTTACGAAGGGGCTTCGAGTGCAAGGTTGGCGGCTTCGTCC	A	T	C	G	A	T	C	C	T	T	T	A	C	G	A	G	G	G	C	C	C	T	C	G	A	G	T	G	C	A	G	G	T	T	G	C	G	C	G	C	G	C	T	C	G	T	C	C			
ATCGATCAACCATGACAAAGCGCGGACGCGGGGTTGGCGGCTTCGTCC	A	T	C	G	A	T	C	A	A	C	A	C	A	T	G	A	C	A	G	G	C	C	G	C	C	G	A	C	G	C	G	G	T	T	G	C	G	C	G	C	G	C	T	C	G	T	C	C			
ATCGATCCTTTATAGATCGCGGATGCAAGTAGATTATCTTCATCC	A	T	C	G	A	T	C	C	T	T	T	A	T	A	T	A	A	G	A	T	C	C	C	C	G	A	A	T	G	C	A	A	G	T	A	G	A	T	A	T	A	T	C	T	C	A	T	C	C		
ATCGATCCTTTACGAAGGGGCTTCGAGTGCGGGGTTGGCGGCTTCGTCC	A	T	C	G	A	T	C	C	T	T	T	A	C	G	A	G	G	G	C	C	C	T	C	G	A	G	T	G	C	A	G	G	T	T	G	C	G	C	G	C	G	C	T	C	G	T	C	C			
ATCGATCCTTTACGAAGGGGCTTCGAGTGCGGGGTTGGCGGCTTCGTCC	A	T	C	G	A	T	C	C	T	T	T	A	C	G	A	G	G	G	C	C	C	T	C	G	A	G	T	G	C	A	G	G	T	T	G	C	G	C	G	C	G	C	T	C	G	T	C	C			
ATCGATCAACCATGACAAAGCGCGGACGCGGGGTTGGGTAATCTTCATCC	A	T	C	G	A	T	C	A	A	C	A	C	A	T	G	A	C	A	G	G	C	C	C	C	G	A	C	G	C	G	G	G	T	T	G	C	G	T	G	C	G	T	A	T	C	A	T	C	C		
ACCGGCTCTTATATAAGATCCGCGGATGCAGGTTGGCGGCTTCGTCC	A	C	C	G	G	C	T	C	T	T	T	A	T	A	T	A	A	G	A	T	C	C	C	C	G	A	T	G	C	A	G	G	T	T	G	C	G	C	G	C	G	C	T	C	G	T	C	C			
ACCGATCAACCATGACAAAGCGCGGACGCGGGGTTACGCGGCTTCGTCC	A	C	C	G	A	T	C	A	A	C	A	C	A	T	G	A	C	A	G	G	C	C	C	C	G	A	C	G	C	G	G	G	T	A	C	G	G	G	T	A	C	G	C	G	C	T	C	G	T	C	C
ATCGATCCTTTACGAAGGGGCTTCGAGTACGGGGTTGCTCGTTTCGTCC	A	T	C	G	A	T	C	C	T	T	T	A	C	G	A	G	G	G	C	C	C	T	C	G	A	T	A	C	G	G	G	T	T	G	C	T	G	C	C	G	T	T	T	C	G	T	C	C			
ACCGATCAACCATGACAAAGCGCGGACGCGGGGTTGCTGTTTCGTCC	A	C	C	G	A	T	C	A	A	C	A	C	A	T	G	A	C	A	G	G	C	C	C	C	G	A	T	A	C	G	G	G	T	T	G	C	T	G	C	T	A	T	C	G	T	C	C				

LA
G
E

Freq.	Case, Control Ratio Counts	Case, Control Freqs	Chi Square	P Value
0.253	138.6 : 387.1, 158.5 : 456.3	0.264, 0.258	0.05	0.8235
0.161	95.0 : 430.7, 94.5 : 520.3	0.181, 0.154	1.496	0.2213
0.075	29.6 : 496.1, 58.2 : 556.6	0.056, 0.095	5.895	0.0152
0.071	42.8 : 482.9, 41.1 : 573.6	0.081, 0.067	0.879	0.3485
0.043	23.0 : 502.7, 27.7 : 587.0	0.044, 0.045	0.013	0.9079
0.04	21.9 : 503.8, 25.3 : 589.4	0.042, 0.041	0.001	0.9735
0.022	14.3 : 511.4, 11.0 : 603.8	0.027, 0.018	1.166	0.2802
0.021	12.0 : 513.7, 12.9 : 601.9	0.023, 0.021	0.046	0.8297
0.018	14.0 : 511.7, 7.4 : 607.4	0.027, 0.012	3.286	0.0699
0.017	9.0 : 516.7, 11.5 : 603.3	0.017, 0.019	0.035	0.8506
0.015	5.8 : 519.9, 12.1 : 602.6	0.011, 0.020	1.39	0.2383
0.014	7.9 : 517.8, 9.1 : 605.7	0.015, 0.015	0.002	0.9613
0.014	10.0 : 515.7, 6.1 : 608.7	0.019, 0.010	1.72	0.1897
0.013	8.1 : 517.6, 7.6 : 607.1	0.015, 0.012	0.174	0.6762
0.012	7.3 : 518.4, 7.3 : 607.5	0.014, 0.012	0.1	0.7523
0.012	5.8 : 519.9, 8.7 : 606.1	0.011, 0.014	0.205	0.6505
0.012	5.7 : 520.0, 8.5 : 606.2	0.011, 0.014	0.218	0.6407
0.012	5.0 : 520.7, 8.8 : 606.0	0.010, 0.014	0.542	0.4616
0.011	7.9 : 517.8, 5.0 : 609.8	0.015, 0.008	1.185	0.2764

FIG. 41B

APOE Haplotypes								
ApoE Hap	rs429358	rs7412	Freq.	Case, Control Ratio Counts	Case, Control Freqs	Chi Square	P Value	
E3	T	C	0.799	609.7 : 130.3, 618.0 : 178.0	0.824, 0.776	5.406	0.0201	
E4	C	C	0.123	77.3 : 662.7, 111.8 : 684.2	0.104, 0.140	4.614	0.0317	
E2	T	T	0.078	53.0 : 687.0, 66.2 : 729.8	0.072, 0.083	0.711	0.3993	

FIG. 42