

**Supplementary Material I.** 39 known AMD related genes, termed as ‘positive genes’, and 1,950 randomly selected genes from Ensemble, termed as ‘negative genes’.

(1) Positive genes

ENSP00000200676	ENSP00000221132	ENSP00000243222
ENSP00000245907	ENSP00000252486	ENSP00000261037
ENSP00000266085	ENSP00000271588	ENSP00000296795
ENSP00000299022	ENSP00000299367	ENSP00000314299
ENSP00000321735	ENSP00000343002	ENSP00000345008
ENSP00000346560	ENSP00000348089	ENSP00000356395
ENSP00000356399	ENSP00000357980	ENSP00000361125
ENSP00000363089	ENSP00000364133	ENSP00000364660
ENSP00000372853	ENSP00000378130	ENSP00000392835
ENSP00000395405	ENSP00000397956	ENSP00000398139
ENSP00000401397	ENSP00000402278	ENSP00000405800
ENSP00000406091	ENSP00000407961	ENSP00000410815
ENSP00000412283	ENSP00000416561	ENSP00000418735

(2) Negative genes

ENSP00000005284	ENSP00000006015	ENSP00000006526
ENSP00000007722	ENSP00000013034	ENSP00000028008
ENSP000000053468	ENSP000000075503	ENSP000000085068
ENSP00000155926	ENSP00000156825	ENSP00000159087
ENSP00000159111	ENSP00000164227	ENSP00000164640
ENSP00000171111	ENSP00000171757	ENSP00000172229
ENSP00000173229	ENSP00000173898	ENSP00000175091
ENSP00000176183	ENSP00000177694	ENSP00000181839
ENSP00000183605	ENSP00000188790	ENSP00000192314
ENSP00000194871	ENSP00000196489	ENSP00000196548
ENSP00000198765	ENSP00000201031	ENSP00000201979
ENSP00000202017	ENSP00000202788	ENSP00000203629
ENSP00000204549	ENSP00000204961	ENSP00000205061
ENSP00000205143	ENSP00000205194	ENSP00000205214
ENSP00000207549	ENSP00000215587	ENSP00000215727
ENSP00000215862	ENSP00000215939	ENSP00000216044
ENSP00000216133	ENSP00000216200	ENSP00000216338
ENSP00000216463	ENSP00000216520	ENSP00000216639
ENSP00000216797	ENSP00000216911	ENSP00000217188
ENSP00000217372	ENSP00000217652	ENSP00000217901
ENSP00000218006	ENSP00000218197	ENSP00000218432
ENSP00000218721	ENSP00000219070	ENSP00000219150
ENSP00000219169	ENSP00000219406	ENSP00000219481
ENSP00000220507	ENSP00000220584	ENSP00000220616

ENSP00000220931	ENSP00000221452	ENSP00000221466
ENSP00000221856	ENSP00000221859	ENSP00000221891
ENSP00000221996	ENSP00000222120	ENSP00000222254
ENSP00000222284	ENSP00000222482	ENSP00000222598
ENSP00000222728	ENSP00000222823	ENSP00000223190
ENSP00000223368	ENSP00000223428	ENSP00000223795
ENSP00000224600	ENSP00000225328	ENSP00000225519
ENSP00000225525	ENSP00000225603	ENSP00000225729
ENSP00000225737	ENSP00000225873	ENSP00000225941
ENSP00000225972	ENSP00000226091	ENSP00000226230
ENSP00000226522	ENSP00000226840	ENSP00000227135
ENSP00000227378	ENSP00000227638	ENSP00000227918
ENSP00000228245	ENSP00000228284	ENSP00000228850
ENSP00000229416	ENSP00000229769	ENSP00000229829
ENSP00000230056	ENSP00000230256	ENSP00000230510
ENSP00000230640	ENSP00000231004	ENSP00000231228
ENSP00000231751	ENSP00000231790	ENSP00000232375
ENSP00000232424	ENSP00000233114	ENSP00000233190
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ENSP00000237696	ENSP00000238081	ENSP00000238256
ENSP00000238341	ENSP00000238651	ENSP00000239032
ENSP00000239223	ENSP00000239243	ENSP00000239830
ENSP00000239891	ENSP00000239906	ENSP00000240159
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ENSP00000241051	ENSP00000241312	ENSP00000241436
ENSP00000242159	ENSP00000242776	ENSP00000243077
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ENSP00000243918	ENSP00000244007	ENSP00000244096
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ENSP00000244728	ENSP00000244745	ENSP00000244799
ENSP00000245222	ENSP00000245312	ENSP00000245541
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