

Supplementary Table 6. met-QTL for the Coimbra, Portugal, cohort based on False Discovery Rate (q-vale < 0.05) – AMD patients only

Gene	rsID	CHRPOS (major/ minor)	Effect Allele	MAF	Super Pathway	Sub Pathway	Metabolite	Beta PT	Pval PT	Qval PT
<i>ASPM</i>	rs199801555	1:197116704:GA:G	G	0.059290795	Amino Acid	Leucine; Isoleucine and Valine Metabolism	2-hydroxy-3-methylvalerate	0.118176584	4.19x10-6	0.473502732
<i>ASPM</i>	rs61819094	1:197119778:C:G	G	0.059307531	Amino Acid	Leucine; Isoleucine and Valine Metabolism	2-hydroxy-3-methylvalerate	0.118176584	4.19x10-6	0.473502732
<i>ASPM</i>	rs201247969	1:196958216:G:GTT	GTT	0.056182008	Amino Acid	Leucine; Isoleucine and Valine Metabolism	2-hydroxy-3-methylvalerate	0.115374428	1.32x10-5	0.473502732
<i>ARMS2</i>	rs12098648	10:124197243:A:G	G	0.126267782	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.037418903	1.97x10-5	0.473502732
<i>ARMS2</i>	rs111348404	10:124197641:G:A	A	0.12642887	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.037418903	1.97x10-5	0.473502732
<i>ARMS2</i>	rs76935275	10:124166835:T:G	G	0.127018828	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036963248	2.19x10-5	0.473502732
<i>ARMS2</i>	rs2421027	10:124203648:A:G	G	0.132361925	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036484877	2.21x10-5	0.473502732
<i>ARMS2</i>	rs72830799	10:124158516:G:A	A	0.120696653	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.037864745	2.01x10-5	0.473502732
<i>ARMS2</i>	rs17649042	10:124161144:C:T	T	0.121112971	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.037864745	2.01x10-5	0.473502732
<i>ARMS2</i>	rs41307060	10:124179096:T:C	C	0.120579498	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.037864745	2.01x10-5	0.473502732
<i>ARMS2</i>	rs72832710	10:124179856:A:G	G	0.12058159	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.037864745	2.01x10-5	0.473502732
<i>CFH</i>	rs61818956	1:196886223:C:T	T	0.133598326	Amino Acid	Leucine; Isoleucine and Valine Metabolism	2-hydroxy-3-methylvalerate	0.065649281	2.80x10-5	0.476773129
<i>ARMS2</i>	rs72834437	10:124205304:A:G	G	0.132644351	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036107979	2.71x10-5	0.474393082
<i>ARMS2</i>	rs185803389	10:124202647:T:C	C	0.117453975	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.048043621	9.64x10-6	0.473502732
<i>ARMS2</i>	rs4752695	10:124195041:G:C	C	0.127378661	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036387429	3.12x10-5	0.476773129
<i>ARMS2</i>	rs12218910	10:124158082:T:A	T	0.126512552	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs10399971	10:124155845:T:C	C	0.125520921	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs4752692	10:124156852:C:T	T	0.125523013	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs72830800	10:124160106:G:A	A	0.125600418	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs4752693	10:124163611:C:T	T	0.125514644	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs72830801	10:124164988:G:A	A	0.125483264	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs7084703	10:124171079:T:A	A	0.12565272	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs72832707	10:124177898:C:T	T	0.125391213	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs41317040	10:124183181:C:T	T	0.125317992	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs9783213	10:124184567:G:A	A	0.125366109	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs952508	10:124187107:G:A	A	0.125301255	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs72832715	10:124188743:G:A	A	0.125349372	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs72832716	10:124189113:G:A	A	0.125351464	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs17103541	10:124190121:A:G	G	0.12534728	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs143086805	10:124190753:CAGCTCCCGAGT:C	C	0.125343096	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129

<i>ARMS2</i>	rs72832718	10:124192245:C:T	T	0.125338912	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs10510111	10:124192474:A:C	C	0.125328452	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036026899	3.60x10-5	0.476773129
<i>ARMS2</i>	rs143158497	10:124202660:T:A	A	0.132761506	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.042489907	1.91x10-5	0.473502732
<i>ARMS2</i>	rs72834434	10:124202251:A:T	T	0.127364017	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.036611306	3.51x10-5	0.476773129
<i>BTBD16</i>	rs10887143	10:124113899:G:A	A	0.235757322	Amino Acid	Methionine; Cysteine; SAM and Taurine Metabolism	methionine	-0.009638301	3.34x10-5	0.476773129
<i>ARMS2</i>	rs190025001	10:124202617:G:C	C	0.116002092	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.044837822	2.08x10-5	0.473502732
<i>ARMS2</i>	rs180901369	10:124202618:G:A	A	0.116008368	Amino Acid	Histidine Metabolism	1-methyl-4-imidazoleacetate	0.044837822	2.08x10-5	0.473502732
<i>ASPM</i>	rs199801555	1:197116704:GA:G	G	0.059290795	Amino Acid	Phenylalanine Metabolism	phenyllactate (PLA)	0.09892687	2.67x10-6	0.386955394
<i>ASPM</i>	rs61819094	1:197119778:C:G	G	0.059307531	Amino Acid	Phenylalanine Metabolism	phenyllactate (PLA)	0.09892687	2.67x10-6	0.386955394
<i>ARMS2</i>	rs7904674	10:124114356:A:G	G	0.23432636	Amino Acid	Methionine; Cysteine; SAM and Taurine Metabolism	methionine	-0.009559609	3.91x10-5	0.478844751
<i>ASPM</i>	rs201247969	1:196958216:G:GTT	GTT	0.056182008	Amino Acid	Phenylalanine Metabolism	phenyllactate (PLA)	0.092782957	2.03x10-5	0.473502732
<i>C6orf15</i>	rs114941286	6:31109882:G:T	G	0.472786611	Amino Acid	Leucine; Isoleucine and Valine Metabolism	3-methylglutaconate	-0.037595286	3.20x10-5	0.476773129
<i>LIPC</i>	rs1532085	15:58683366:A:G	A	0.382845188	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.028891773	9.47x10-9	0.012350644
<i>LIPC</i>	rs2043085	15:58680954:T:C	T	0.396811715	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.027389077	9.03x10-8	0.065234074
<i>LIPC</i>	rs261291	15:58680178:T:C	C	0.356677824	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.02574477	7.88x10-7	0.172730619
<i>LIPC</i>	rs261291	15:58680178:T:C	C	0.356677824	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.038734368	8.02x10-9	0.012350644
<i>LIPC</i>	rs2414577	15:58680638:T:C	C	0.393801255	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.024142191	5.99x10-6	0.473502732
<i>LIPC</i>	rs2414578	15:58680639:T:C	C	0.393801255	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.024142191	5.99x10-6	0.473502732
<i>LIPC</i>	rs7350789	15:58679668:G:A	A	0.343098326	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.022944219	1.22x10-5	0.473502732
<i>LIPC</i>	rs71884092	15:58679807:CAGA:C	C	0.343041841	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.022944219	1.22x10-5	0.473502732
<i>LIPC</i>	rs7177289	15:58680184:C:T	T	0.34292887	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.022639839	1.88x10-5	0.473502732
<i>LIPC</i>	rs261290	15:58678720:T:C	T	0.344997908	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.022437393	1.75x10-5	0.473502732
<i>LIPC</i>	rs35853021	15:58680643:G:T	T	0.36308159	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.024103902	1.05x10-5	0.473502732
<i>LIPC</i>	rs2043085	15:58680954:T:C	T	0.396811715	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.033484624	5.68x10-7	0.1482541
<i>LIPC</i>	rs261290	15:58678720:T:C	T	0.344997908	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.034972653	2.04x10-7	0.076155012
<i>LIPC</i>	rs1532085	15:58683366:A:G	A	0.382845188	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.033243529	4.87x10-7	0.141010376
<i>LIPC</i>	rs7350789	15:58679668:G:A	A	0.343098326	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.035722865	1.25x10-7	0.065234074
<i>LIPC</i>	rs71884092	15:58679807:CAGA:C	C	0.343041841	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.035722865	1.25x10-7	0.065234074
<i>LIPC</i>	rs2043082	15:58674308:G:A	A	0.34890795	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-arachidonoyl-GPE (16:0/20:4)*	0.022255557	1.64x10-5	0.473502732
<i>LIPC</i>	rs7177289	15:58680184:C:T	T	0.34292887	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.034949836	3.02x10-7	0.098491479
<i>LIPC</i>	rs10468017	15:58678512:C:T	T	0.302142259	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.035042586	8.61x10-7	0.172730619
<i>LIPC</i>	rs35853021	15:58680643:G:T	T	0.36308159	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.037006949	1.55x10-7	0.067330853
<i>ADAMTS9</i>	rs34522141	3:64727302:AT:A	A	0.472901674	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.077516557	9.01x10-6	0.473502732
<i>LIPC</i>	rs261291	15:58680178:T:C	C	0.356677824	Lipid	Phosphatidylethanolamine (PE)	1-stearoyl-2-linoleoyl-GPE (18:0/18:2)*	0.023369644	1.94x10-5	0.473502732
<i>ADAMTS9</i>	rs2194091	3:64725485:G:A	G	0.401621339	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.072672425	3.01x10-5	0.476773129

<i>ADAMTS9</i>	rs7638389	3:64729892:G:A	G	0.403843096	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.073313065	3.14x10 ⁻⁵	0.476773129
<i>LIPC</i>	rs2414577	15:58680638:T:C	C	0.393801255	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.033100281	1.73x10 ⁻⁶	0.282422896
<i>LIPC</i>	rs2414578	15:58680639:T:C	C	0.393801255	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.033100281	1.73x10 ⁻⁶	0.282422896
<i>ADAMTS9</i>	rs6793651	3:64729712:G:A	G	0.40975523	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.073576365	3.35x10 ⁻⁵	0.476773129
	rs1341393	10:124512299:A:C	A	0.069039749	Lipid	Medium Chain Fatty Acid	caprate (10:0)	0.060058271	3.22x10 ⁻⁵	0.476773129
<i>ADAMTS9</i>	rs17676309	3:64730121:T:C	C	0.429008368	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	0.07953244	5.75x10 ⁻⁶	0.473502732
<i>ARMS2</i>	rs10887149	10:124167004:G:A	A	0.347280335	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.015458338	8.51x10 ⁻⁶	0.473502732
<i>ADAMTS9</i>	rs13096392	3:64722611:G:T	T	0.425794979	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	0.076741639	9.29x10 ⁻⁶	0.473502732
<i>ADAMTS9</i>	rs6445425	3:64719091:G:C	G	0.424518828	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	0.076330917	1.05x10 ⁻⁵	0.473502732
<i>ADAMTS9</i>	rs6775974	3:64724632:C:T	T	0.427112971	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	0.076280484	1.07x10 ⁻⁵	0.473502732
<i>ADAMTS9</i>	rs4368494	3:64701387:G:A	A	0.473585774	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.068660316	3.26x10 ⁻⁵	0.476773129
<i>ADAMTS9</i>	rs4422297	3:64704860:A:G	G	0.482717573	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.069026779	3.80x10 ⁻⁵	0.476773129
<i>ADAMTS9</i>	rs9864077	3:64704891:T:C	C	0.482686192	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.069026779	3.80x10 ⁻⁵	0.476773129
<i>ADAMTS9</i>	rs9860221	3:64700799:A:G	G	0.483186192	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.069048685	3.78x10 ⁻⁵	0.476773129
<i>ADAMTS9</i>	rs9860730	3:64701146:A:G	G	0.483150628	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.069048685	3.78x10 ⁻⁵	0.476773129
<i>ADAMTS9</i>	rs6772129	3:64700425:A:G	G	0.483248954	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.069048685	3.78x10 ⁻⁵	0.476773129
<i>BTBD16</i>	rs7074542	10:124112799:C:T	T	0.29198954	Lipid	Fatty Acid Metabolism(Acyl Carnitine)	lignoceroylcarnitine (C24)*	0.023487503	2.83x10 ⁻⁵	0.476773129
<i>BTBD16</i>	rs61871680	10:124070455:G:A	A	0.137776151	Lipid	Plasmalogen	1-(1-enyl-palmitoyl)-2-oleoyl-GPC (P-16:0/18:1)*	0.023348014	9.25x10 ⁻⁶	0.473502732
<i>ADAMTS9</i>	rs4607103	3:64711904:C:T	T	0.401845188	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.069482431	4.29x10 ⁻⁵	0.484500525
<i>ADAMTS9</i>	rs4504165	3:64701890:T:C	C	0.483075314	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.069026779	3.80x10 ⁻⁵	0.476773129
<i>ADAMTS9</i>	rs9870322	3:64706499:T:C	C	0.482531381	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.069026779	3.80x10 ⁻⁵	0.476773129
<i>ADAMTS9</i>	rs9816778	3:64706820:A:G	G	0.48257113	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.069026779	3.80x10 ⁻⁵	0.476773129
<i>ADAMTS9</i>	rs4132228	3:64708114:C:T	T	0.470721757	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate sulfate	-0.068192132	3.86x10 ⁻⁵	0.478844751
<i>CETP</i>	rs3816117	16:56996158:T:C	C	0.4941653	Lipid	Ketone Bodies	3-hydroxybutyrate (BHBA)	0.048851386	2.69x10 ⁻⁵	0.474393082
<i>LIPC</i>	rs35853021	15:58680643:G:T	T	0.36308159	Lipid	Phosphatidylethanolamine (PE)	1-stearoyl-2-linoleoyl-GPE (18:0/18:2)*	0.023381002	4.34x10 ⁻⁵	0.488337809
<i>BTBD16</i>	rs35444643	10:124111173:G:T	T	0.291625523	Lipid	Fatty Acid Metabolism(Acyl Carnitine)	lignoceroylcarnitine (C24)*	0.02324521	3.36x10 ⁻⁵	0.476773129
<i>ARMS2</i>	rs7088058	10:124149352:C:T	T	0.416880753	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.014678839	2.65x10 ⁻⁵	0.474393082
<i>BTBD16</i>	rs11200571	10:124110966:A:G	G	0.291922594	Lipid	Fatty Acid Metabolism(Acyl Carnitine)	lignoceroylcarnitine (C24)*	0.02324521	3.36x10 ⁻⁵	0.476773129
<i>ARMS2</i>	rs17564097	10:124194816:A:G	G	0.181284519	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018755995	2.18x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs7918867	10:124169666:G:A	A	0.179935146	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018754868	2.08x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs10887147	10:124153631:C:T	T	0.177161088	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018913701	2.03x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs10749467	10:124145712:T:C	C	0.179665272	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018754868	2.08x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs7089398	10:124146298:G:A	A	0.179759414	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018754868	2.08x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs7905479	10:124160126:C:T	T	0.180497908	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018754868	2.08x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs4751892	10:124175273:G:A	G	0.180146444	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018754868	2.08x10 ⁻⁵	0.473502732

ARMS2	rs4405249	10:124183732:T:C	T	0.179916318	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018754868	2.08x10-5	0.473502732
ARMS2	rs41310276	10:124166018:T:G	G	0.180058577	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018758243	2.12x10-5	0.473502732
ARMS2	rs117169865	10:124168064:T:C	C	0.180027197	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018758243	2.12x10-5	0.473502732
ARMS2	rs6585826	10:124141971:G:A	A	0.17907113	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.01923306	2.00x10-5	0.473502732
ARMS2	rs144969330	10:124194071:CT:C	C	0.179410042	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018700368	2.22x10-5	0.473502732
LIPC	rs2043082	15:58674308:G:A	A	0.34890795	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.030113512	7.18x10-6	0.473502732
CETP	rs1800775	16:56995236:C:A	A	0.493728	Lipid	Ketone Bodies	3-hydroxybutyrate (BHBA)	0.047664637	3.92x10-5	0.478844751
ARMS2	rs79296899	10:124201412:A:G	G	0.181393305	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018424475	3.05x10-5	0.476773129
ARMS2	rs3037926	10:124138378:CACTT:C	C	0.17842887	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018995348	2.66x10-5	0.474393082
ARMS2	rs10692165	10:124140752:CAG:C	C	0.178830544	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018995348	2.66x10-5	0.474393082
ARMS2	rs7900012	10:124134042:C:T	T	0.178054393	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018995348	2.66x10-5	0.474393082
ARMS2	rs10617127	10:124135004:C:CGTCT	CGTCT	0.178198745	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018995348	2.66x10-5	0.474393082
HCG26	rs114337491	6:31346621:G:C	C	0.171548117	Lipid	Hexosylceramides (HCER)	glycosyl-N-nervonoyl-sphingosine (d18:1/24:1)*	0.051624252	3.16x10-5	0.476773129
ARMS2	rs7098059	10:124144482:A:T	T	0.179491632	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.01861258	3.54x10-5	0.476773129
ASPM	rs72738644	1:197137448:C:T	T	0.082215481	Lipid	Androgenic Steroids	androstenediol (3alpha; 17alpha) monosulfate (2)	-0.09655273	1.50x10-5	0.473502732
ARMS2	rs6585823	10:124126984:T:G	T	0.177399582	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018978264	2.79x10-5	0.476773129
ARMS2	rs7896201	10:124127578:T:G	T	0.177359833	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.018978264	2.79x10-5	0.476773129
LIPC	rs1601935	15:58671765:G:T	G	0.390322176	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.029955467	1.55x10-5	0.473502732
LIPC	rs11858759	15:58676821:G:A	A	0.310621339	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.028540178	4.29x10-5	0.484500525
ARMS2	rs2178931	10:124206126:A:G	G	0.181600418	Lipid	Long Chain Fatty Acid	10-nonadecenoate (19:1n9)	0.017748747	4.27x10-5	0.484500525
C3	rs2241392	19:6685983:G:C	C	0.314426778	Lipid	Polyunsaturated Fatty Acid (n3 and n6)	linoleate (18:2n6)	-0.023250748	3.86x10-6	0.473502732
ARMS2	rs79406060	10:124287408:T:A	A	0.133351464	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.113363039	2.56x10-5	0.474393082
ARMS2	rs7091993	10:124119639:T:C	C	0.23417364	Lipid	Fatty Acid Metabolism(Acyl Carnitine)	behenoylecarnitine (C22)*	0.040353475	3.57x10-5	0.476773129
ARMS2	rs11596636	10:124120567:A:G	G	0.234399582	Lipid	Fatty Acid Metabolism(Acyl Carnitine)	behenoylecarnitine (C22)*	0.040353475	3.57x10-5	0.476773129
LIPC	rs62001736	15:58674051:G:A	A	0.3106841	Lipid	Phosphatidylethanolamine (PE)	1-palmitoyl-2-linoleoyl-GPE (16:0/18:2)	0.02879768	4.05x10-5	0.48038381
ARMS2	rs7904674	10:124114356:A:G	G	0.23432636	Lipid	Fatty Acid Metabolism(Acyl Carnitine)	behenoylecarnitine (C22)*	0.040130134	4.28x10-5	0.484500525
ARMS2	rs10887154	10:124255340:T:C	C	0.129707113	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.115313504	1.46x10-5	0.473502732
ARMS2	rs11200655	10:124260564:C:G	G	0.129958159	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.115313504	1.46x10-5	0.473502732
ARMS2	rs17103659	10:124274603:T:C	C	0.131947699	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.111904188	2.43x10-5	0.473502732
ARMS2	rs74532199	10:124274615:C:CT	CT	0.13189749	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.111904188	2.43x10-5	0.473502732
ARMS2	rs1009326	10:124263873:C:T	T	0.130464435	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.114830824	1.61x10-5	0.473502732
ARMS2	rs17103667	10:124277713:G:A	A	0.131780335	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.111904188	2.43x10-5	0.473502732
ARMS2	rs28482003	10:124277734:G:A	A	0.131788703	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.111904188	2.43x10-5	0.473502732
ARMS2	rs28738684	10:124277745:G:A	A	0.131803347	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.111904188	2.43x10-5	0.473502732
ARMS2	rs7077251	10:124278286:A:G	G	0.131956067	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.111904188	2.43x10-5	0.473502732

<i>ARMS2</i>	rs28372488	10:124278854:G:A	A	0.132085774	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.111904188	2.43x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs74231270	10:124282569:A:T	T	0.132807531	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.112525351	2.27x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs28406792	10:124276253:T:A	A	0.131767782	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.111904188	2.43x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs17103662	10:124276260:G:A	A	0.131767782	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.111904188	2.43x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs28437273	10:124276794:G:C	C	0.131767782	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.111904188	2.43x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs2239588	10:124250093:G:C	C	0.129629707	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.115313504	1.46x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs76495632	10:124267250:G:T	T	0.130811715	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.114830824	1.61x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs2300435	10:124252279:G:A	A	0.129144351	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.115313504	1.46x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs2300436	10:124252285:C:T	T	0.129146444	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.115313504	1.46x10 ⁻⁵	0.473502732
<i>CCHCR1</i>	rs114972609	6:31192796:A:G	G	0.449790795	Lipid	Sphingosines	sphingosine 1-phosphate	0.01966672	1.58x10 ⁻⁵	0.473502732
<i>CCHCR1</i>	rs116365117	6:31192797:A:G	G	0.449790795	Lipid	Sphingosines	sphingosine 1-phosphate	0.01966672	1.58x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs11528741	10:124288467:G:C	C	0.133560669	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.113363039	2.56x10 ⁻⁵	0.474393082
<i>ARMS2</i>	rs2268351	10:124251098:C:T	T	0.129150628	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.115313504	1.46x10 ⁻⁵	0.473502732
<i>SYN3</i>	rs5754226	22:33104348:A:G	G	0.146682008	Lipid	Sphingomyelins	stearoyl sphingomyelin (d18:1/18:0)	0.01789749	2.49x10 ⁻⁵	0.474393082
<i>ARMS2</i>	rs17103680	10:124282725:C:T	T	0.135985356	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.112022628	2.91x10 ⁻⁵	0.476773129
<i>ARMS2</i>	rs1016006	10:124248091:A:G	G	0.127778243	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.115977309	1.59x10 ⁻⁵	0.473502732
<i>ARMS2</i>	rs17103676	10:124281685:G:A	A	0.135096234	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.110611709	3.68x10 ⁻⁵	0.476773129
<i>CMSS1</i>	rs56339461	3:99466531:A:G	G	0.092466527	Lipid	Dihydrosphingomyelins	myristoyl dihydrosphingomyelin (d18:0/14:0)*	0.03883923	6.23x10 ⁻⁶	0.473502732
<i>ARMS2</i>	rs73369702	10:124281875:C:A	A	0.134916318	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.110611709	3.68x10 ⁻⁵	0.476773129
<i>ARMS2</i>	rs17103678	10:124282295:T:C	C	0.135236402	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.110611709	3.68x10 ⁻⁵	0.476773129
<i>ARMS2</i>	rs10887155	10:124255686:G:T	T	0.133905858	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.109278137	3.81x10 ⁻⁵	0.476773129
<i>ARMS2</i>	rs28596486	10:124274794:T:C	C	0.145317992	Lipid	Primary Bile Acid Metabolism	glycochenodeoxycholate glucuronide (1)	0.109259653	2.94x10 ⁻⁵	0.476773129
<i>ASPM</i>	rs7535993	1:196976019:C:T	C	0.346899582	Nucleotide	Purine Metabolism; Adenine containing	N6-carbamoylthreonyladenosine	0.017192175	1.79x10 ⁻⁵	0.473502732
<i>ASPM</i>	rs7555070	1:196982154:C:T	C	0.35033682	Nucleotide	Purine Metabolism; Adenine containing	N6-carbamoylthreonyladenosine	0.016656927	2.27x10 ⁻⁵	0.473502732
<i>CFH</i>	rs12755054	1:196947030:T:C	C	0.347682008	Nucleotide	Purine Metabolism; Adenine containing	N6-carbamoylthreonyladenosine	0.016825452	1.80x10 ⁻⁵	0.473502732
<i>CFH</i>	rs1759016	1:196952498:C:T	T	0.349995816	Nucleotide	Purine Metabolism; Adenine containing	N6-carbamoylthreonyladenosine	0.016656927	2.27x10 ⁻⁵	0.473502732
<i>ASPM</i>	rs1750311	1:196954225:C:A	A	0.349374477	Nucleotide	Purine Metabolism; Adenine containing	N6-carbamoylthreonyladenosine	0.016656927	2.27x10 ⁻⁵	0.473502732
<i>ASPM</i>	rs1170879	1:196956047:G:A	A	0.349550209	Nucleotide	Purine Metabolism; Adenine containing	N6-carbamoylthreonyladenosine	0.016656927	2.27x10 ⁻⁵	0.473502732
<i>ASPM</i>	rs9427664	1:196961073:T:A	A	0.349794979	Nucleotide	Purine Metabolism; Adenine containing	N6-carbamoylthreonyladenosine	0.016656927	2.27x10 ⁻⁵	0.473502732

rsID: reference single nucleotide polymorphism (SNP) cluster ID; CHRPOS - chromosome position; GPE - glycerophosphatidylethanolamine; PT - Portugal; Meta - results from meta-analysis