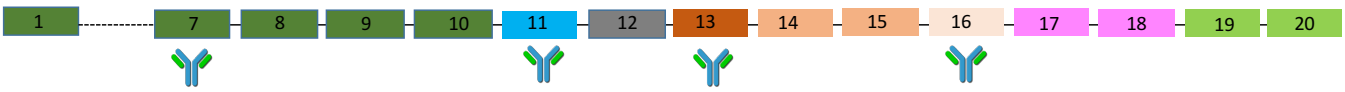
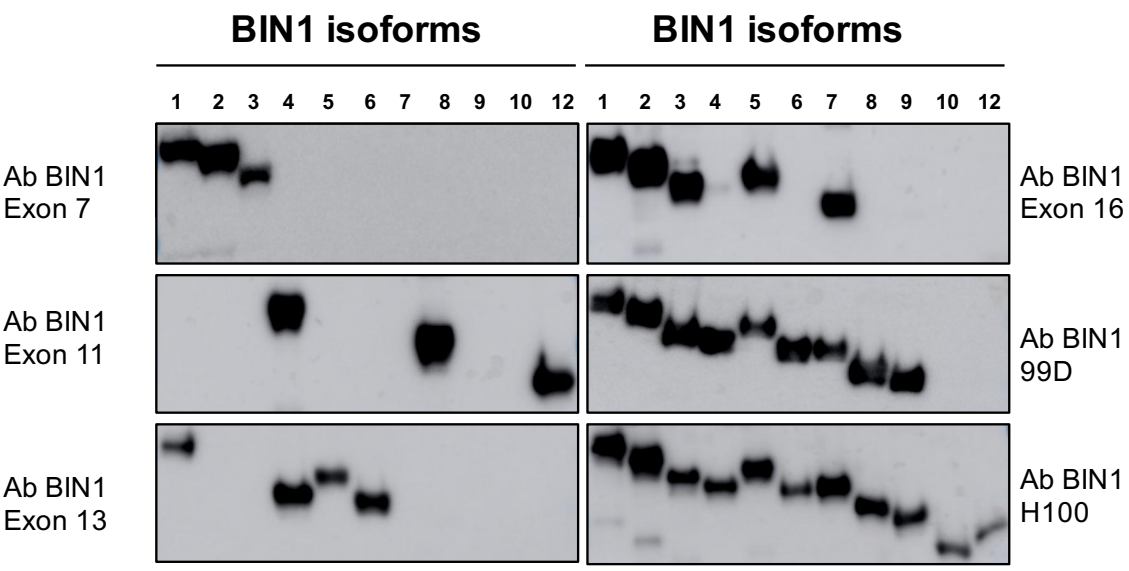
Suppl. Fig. 1

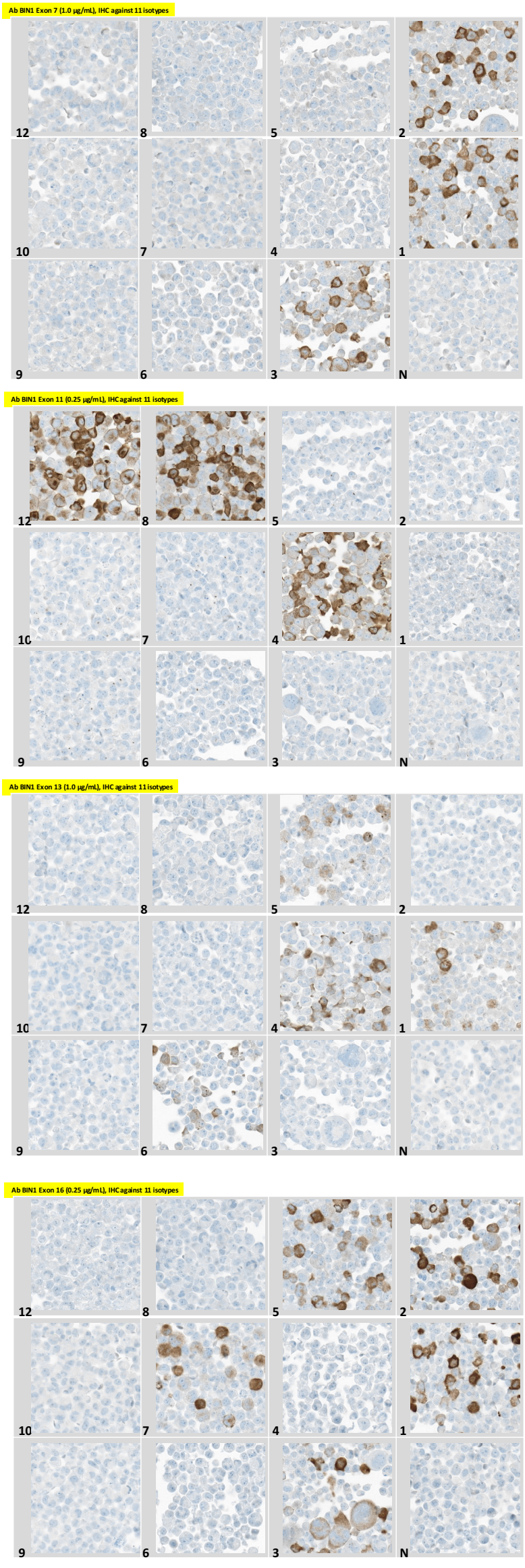
a.



b.

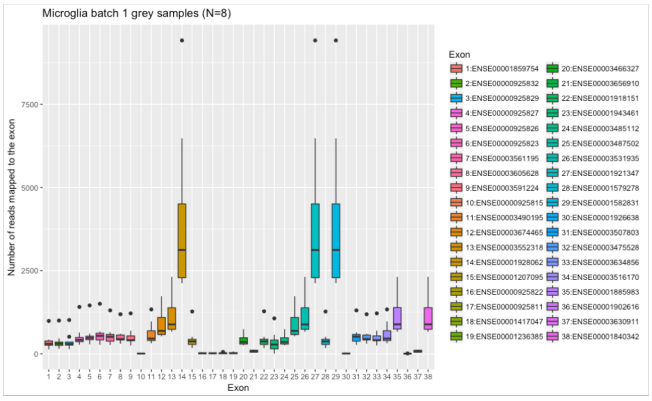


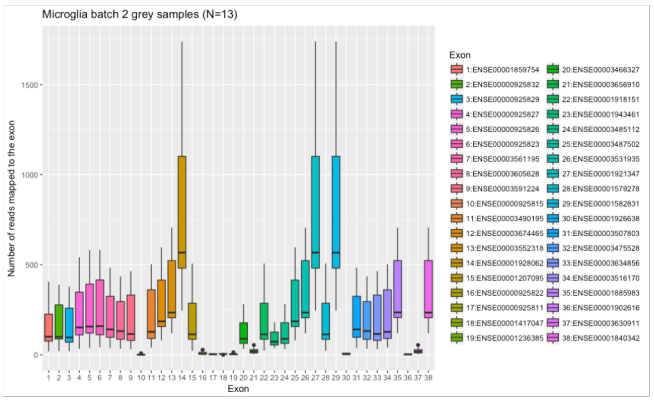
Suppl. Fig. 2


Ab BIN1 Exon 7 (1.0 µg/mL), IHC against 11 isotypes
12
8
5
2
10
7
4
1
9
6
3
N
Ab BIN1 Exon 11 (0.25 µg/mL), IHC against 11 isotypes
12
8
5
2
10
7
4
1
9
6
3
N
Ab BIN1 Exon 13 (1.0 µg/mL), IHC against 11 isotypes
12
8
5
2
10
7
4
1
9
6
3
N
Ab BIN1 Exon 16 (0.25 µg/mL), IHC against 11 isotypes
12
8
5
2
10
7
4
1
9
6
3
N

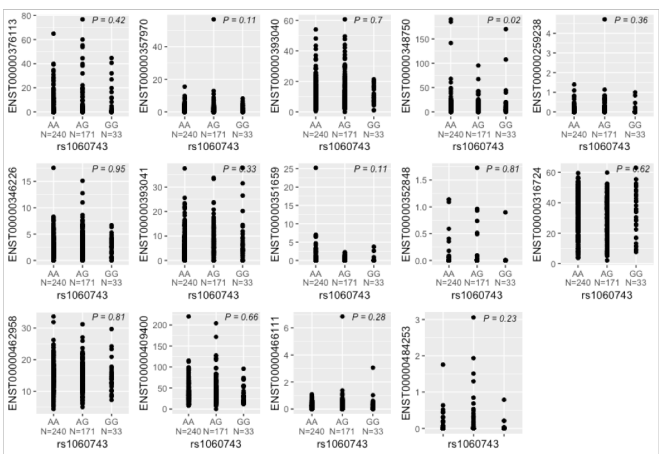
Suppl. Fig. 3

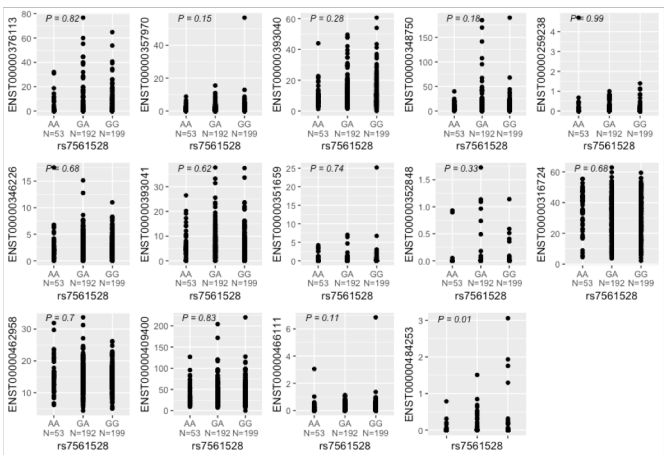
a.

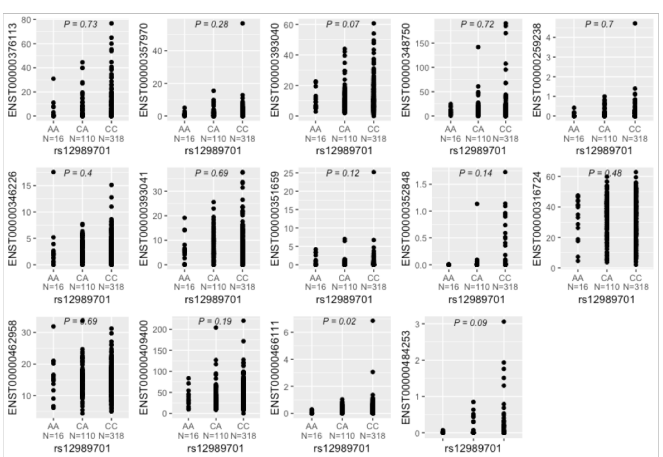




b.



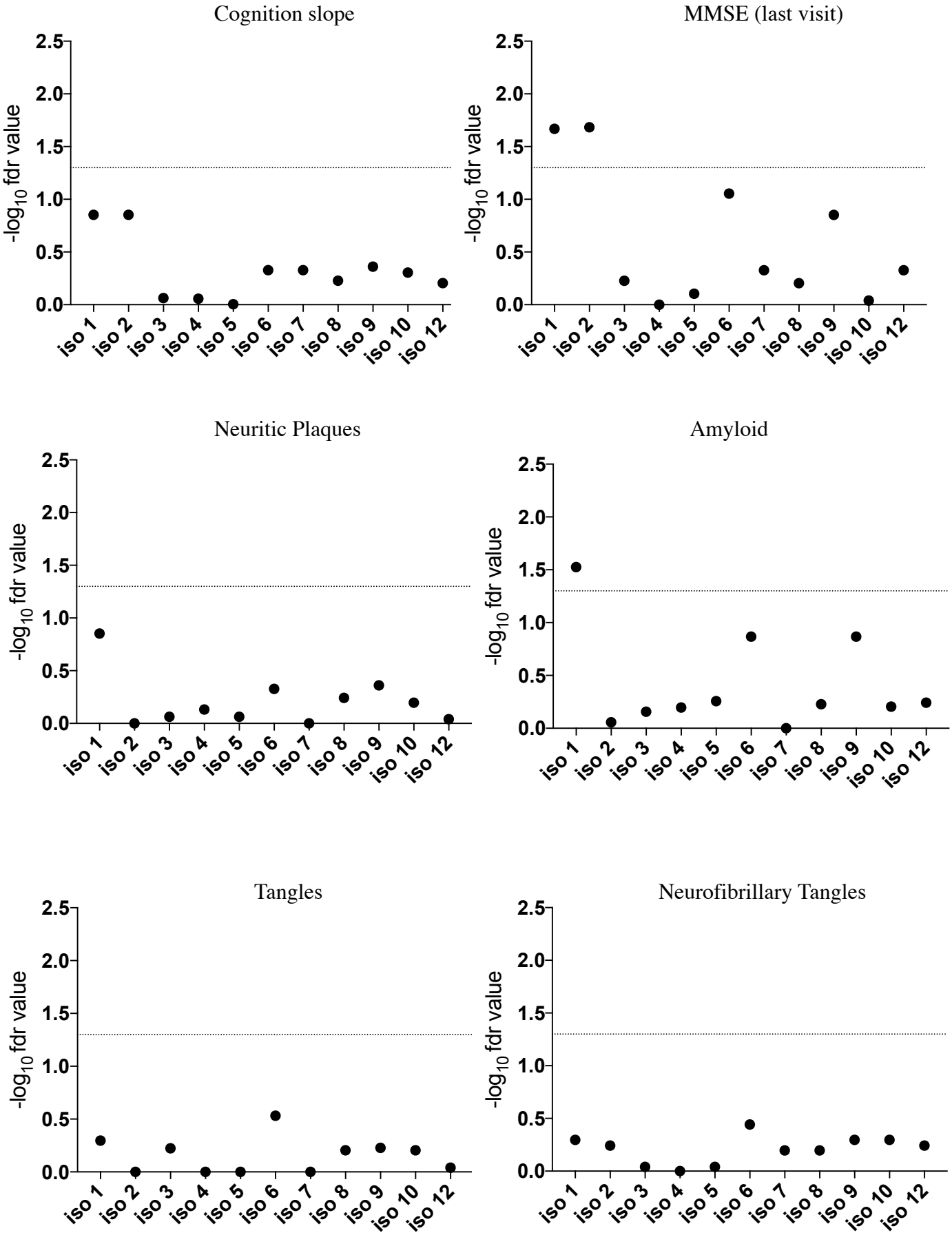




c.

gene	snp	Value	Std.Error	DF	t.value	p.value
ENST00000316724	rs1060743	0.02026785	0.03150847	20	0.64325087	0.52736856
ENST00000346226	rs1060743	-0.0023177	0.02755779	20	-0.0841025	0.93381107
ENST00000348750	rs1060743	-0.5582641	0.50427024	20	-1.1070733	0.28140022
ENST00000351659	rs1060743	-0.1928578	0.08994637	20	-2.1441425	0.04449238
ENST00000357970	rs1060743	0.00305947	0.01541643	20	0.19845509	0.84469244
ENST00000376113	rs1060743	0.15906423	0.5005467	20	0.317781	0.75394511
ENST00000393040	rs1060743	-0.3192034	0.43230766	20	-0.738371	0.46886564
ENST00000393041	rs1060743	0.12888875	0.08050971	20	1.60090941	0.12507485
ENST00000409400	rs1060743	-0.4690434	0.29317641	20	-1.5998676	0.12530648
ENST00000462958	rs1060743	-0.2458489	0.19346907	20	-1.2707402	0.21840395
ENST00000466111	rs1060743	0.0951159	0.13594505	20	0.69966433	0.49219538
ENST00000484253	rs1060743	0.1355292	0.15125768	20	0.8960153	0.38090291
ENST00000316724	rs7561528	0.05128569	0.03099093	20	1.65486132	0.11356155
ENST00000346226	rs7561528	-0.00272	0.02887104	20	-0.0942128	0.9258776
ENST00000348750	rs7561528	-0.7674993	0.55265128	20	-1.3887588	0.18017906
ENST00000351659	rs7561528	-0.1405315	0.09905208	20	-1.4187641	0.17136422
ENST00000357970	rs7561528	0.02023521	0.01578883	20	1.28161554	0.21463721
ENST00000376113	rs7561528	0.22671896	0.53766682	20	0.42167184	0.67776223
ENST00000393040	rs7561528	0.03745194	0.48969798	20	0.07647966	0.9397974
ENST00000393041	rs7561528	-0.0291213	0.08747893	20	-0.3328954	0.74267754
ENST00000409400	rs7561528	-0.2957696	0.34732181	20	-0.8515722	0.40453312
ENST00000462958	rs7561528	-0.2182246	0.21825725	20	-0.9998503	0.32932723
ENST00000466111	rs7561528	0.0055047	0.15375624	20	0.03580149	0.97179557
ENST00000484253	rs7561528	0.0271221	0.16318829	20	0.16620124	0.86966729
ENST00000316724	rs12989701	0.02036485	0.03795251	20	0.53658761	0.59747136
ENST00000346226	rs12989701	-0.0314037	0.032609	20	-0.9630372	0.34702919
ENST00000348750	rs12989701	-0.4731787	0.64579757	20	-0.7327043	0.47223947
ENST00000351659	rs12989701	-0.1105369	0.11558904	20	-0.9562927	0.35034183
ENST00000357970	rs12989701	0.00491115	0.01858831	20	0.26420648	0.79432423
ENST00000376113	rs12989701	-0.0666061	0.61727135	20	-0.1079041	0.91514697
ENST00000393040	rs12989701	0.24664104	0.54981523	20	0.44858896	0.65855059
ENST00000393041	rs12989701	-0.129444	0.09757858	20	-1.3265614	0.19960288
ENST00000409400	rs12989701	-0.2631607	0.39401292	20	-0.6678987	0.51183276
ENST00000462958	rs12989701	-0.1844715	0.25021369	20	-0.7372556	0.46952855
ENST00000466111	rs12989701	-0.2038351	0.16371311	20	-1.2450753	0.22749564
ENST00000484253	rs12989701	-0.1646926	0.18069305	20	-0.9114498	0.37291395

Suppl. Fig. 4


Cognition slope
MMSE (last visit)
Neuritic Plaques
Amyloid
Tangles
Neurofibrillary Tangles
-log10 fdr value
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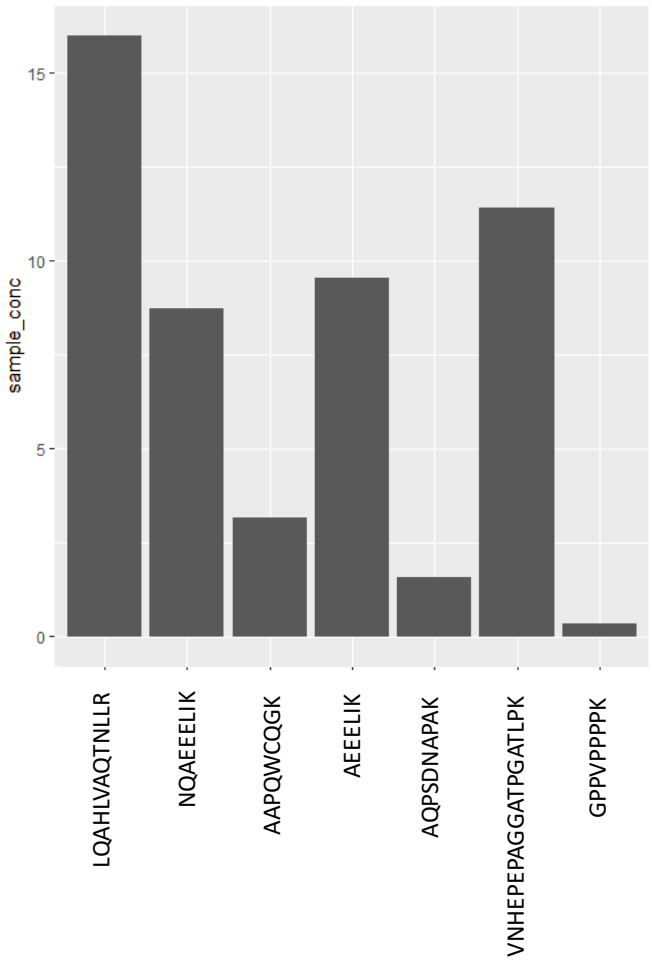
2.0
1.5
1.0
0.5
0.0
iso 1
iso 2
iso 3
iso 4
iso 5
iso 6
iso 7
iso 8
iso 9
iso 10
iso 12

Suppl. Fig. 5


sample_conc
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10
5
0
LQAHLVAQTNLLR
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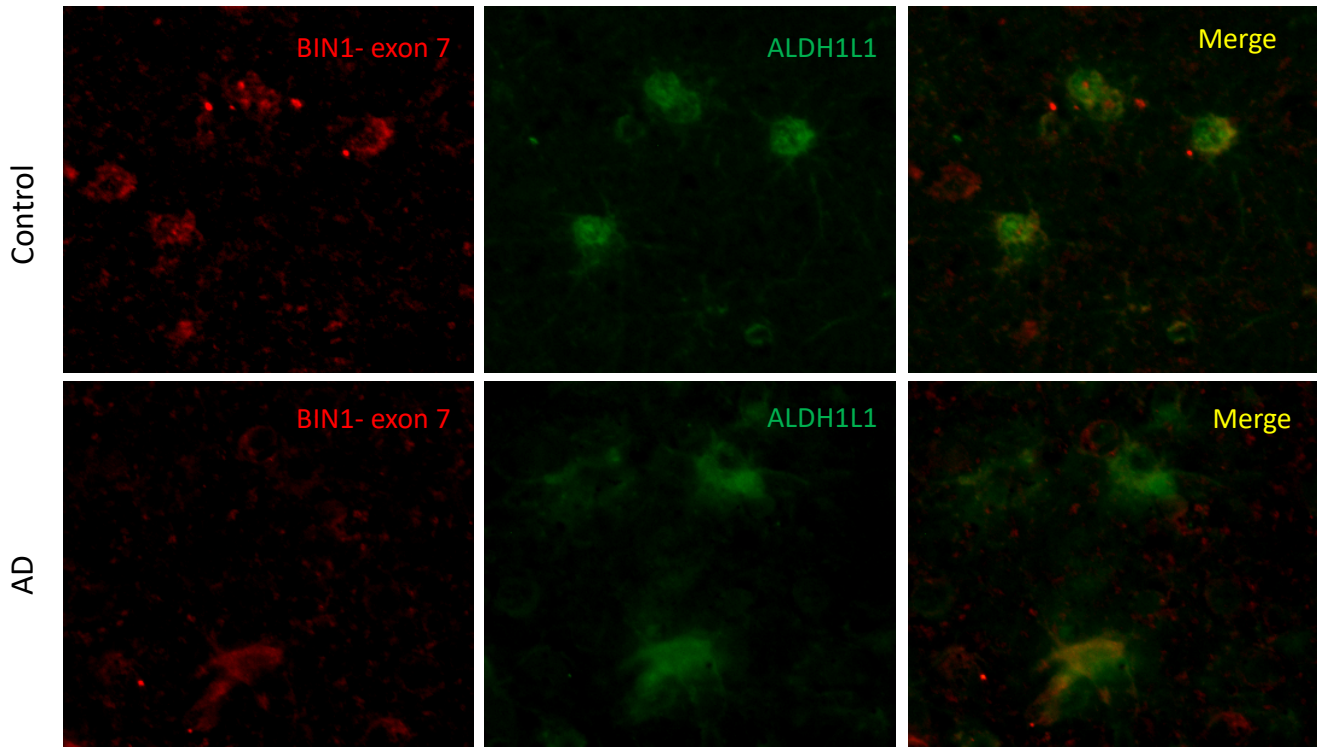
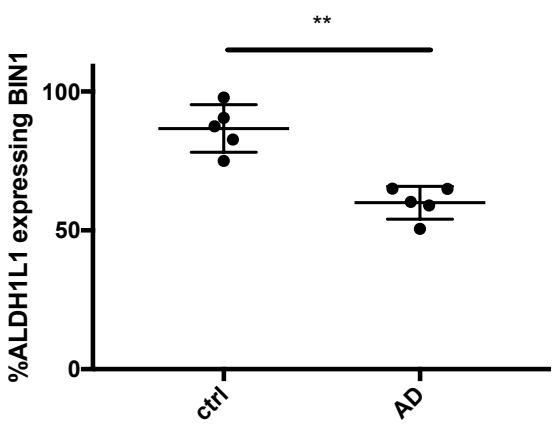
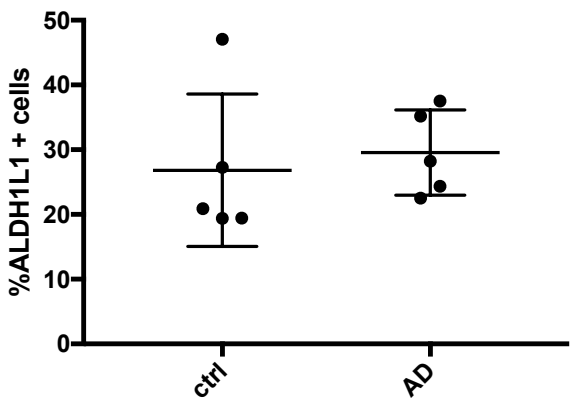
AEEELIK
AQPSDNAPAK
VNHEPEPAGGATPGATLPK
GPPVPPPPK

Suppl. Fig. 6


Control
AD
BIN1- exon 7
ALDH1L1
Merge
BIN1- exon 7
ALDH1L1
Merge


**
%ALDH1L1 expressing BIN1
100
50
0
ctrl
AD


%ALDH1L1 + cells
50
40
30
20
10
0
ctrl
AD

Suppl. Table 1

	cortical RNA-seq (n=508)
Male	38%
Female	62%
Age_death	88.4 +- 6.6

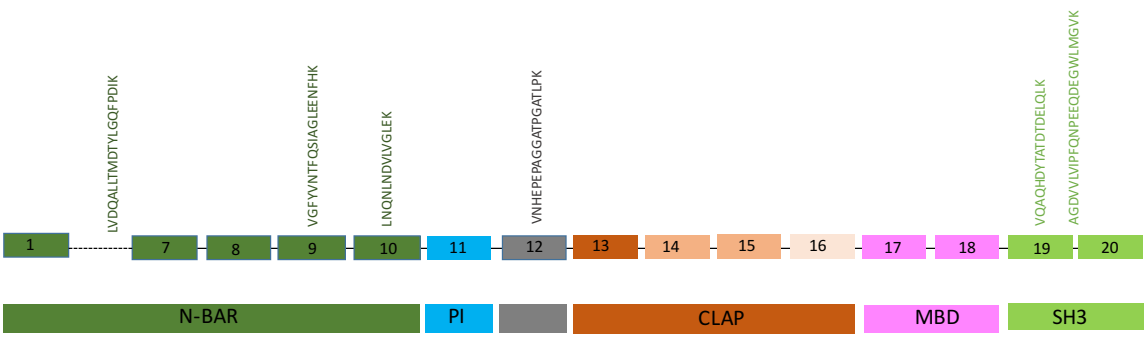
	SRM proteomics (n=1377)
Male	31.70%
Female	68.300%
Age_death	89.4 +- 6.5

Suppl. Table2

Peptide sequence	Consenquence Rank Score	exon
LQAHLVAQTNLLR	0.544	7
NQAEEELIK	0.267	7
AAPQWCQGK	0.255	7
AEEELIK	0.215	8
AQPSDNAPAK	0.236	10
VNHEPEPAGGATPGATLPK	0.899	12
GPPVPPPPK	0.085	13

Suppl. Table 3

Peptide sequence	exon	isoform
AGDVVLVIPFQNPEEQDEGWLMGV	15-16	all isoform
LNQNLNDVLVGLEK	9	all isoform
LVDQALLTMDTYLGQFPDIK	5	all isoform
VGFYVNTFQSIAGLEENFHK	8	all isoform
VNHEPEPAGGATPGATLPK	11	all isoform
VQAQHDYTATDTDELQLK	15	all isoform



Suppl. Table 4

a.

BIN1 isoforms	ENST_gencode19	number of SNPs < 5.57E-5	number of SNPs < 0.05
1	ENST00000316724	0	73
2	ENST00000357970	0	6
3	ENST00000351659	0	194
4	ENST00000259238	0	3
5	ENST00000346226	0	0
6	ENST00000393040	0	65
7	ENST00000393041	0	127
8	ENST00000352848	N/A	N/A
9	ENST00000409400	0	60
10	ENST00000348750	0	82
12	ENST00000376113	0	57

b.

Id	Gencode_id	chr	position	Effective allele	a2	mac	Freq	Effect	Stdev	Z	*p*
rs1060743	ENST00000348750.4	10,2	127826533	A	G	262.96	0.73	-0.16	0.07	-2.25	0.02

Suppl. Table 5

Peptides	*fdr*_AD dementia	*fdr*_Slope of Cognitive Decline	*fdr*_Residual Cog	*fdr*_Pathologic Diag.	*fdr*_Amyloid Patho	*fdr*_tangles
LQAHLVAQTNLLR	0.026007692	0.0002115	0.000780938	0.0002954	1.91E-05	1.89E-07
NQAEEELIK	0.001569167	6.98E-05	1.16E-05	6.84E-05	6.26E-08	2.34E-09
AAPQWCQGK	0.112397727	0.027375	0.026007692	0.00358575	0.052181818	0.00329921
AEEELIK	0.553875	0.523561644	0.290625	0.253584906	0.013923913	0.28254545
AQPSDNAPAK	0.770823529	0.544090909	0.318559322	0.318559322	0.01435	0.11239773
VNHEPEPAGGATPGATLPK	0.907644231	0.811774194	0.523561644	0.527837838	0.1579375	0.54759494
GPPVPPPPK	0.122266667	0.028965517	0.026911111	0.434538462	0.907644231	0.11239773

Suppl. Table 6

Peptides	*fdr*_CAA	*fdr*_ci_num2_gct	*fdr*_ci_num2_mct	*fdr*_Lew Body	*fdr*_Hippocampal Sclerosis	*fdr*_TDP43 pathology
LQAHLVAQTNLLR	0.033396774	0.929	0.845585106	0.875357143	0.055897059	0.156382979
NQAEEELIK	0.033396774	0.774375	0.888787879	0.7425	0.16632	0.16632
AAPQWCQGK	0.070291667	0.875357143	0.771627907	0.875357143	0.38675	0.501338028
AEEELIK	0.544090909	0.907644231	0.807333333	0.697048193	0.656890244	0.501338028
AQPSDNAPAK	0.849947368	0.076263158	0.547594937	0.907644231	0.58462963	0.791629213
VNHEPEPAGGATPGATLPK	0.470149254	0.811774194	0.774375	0.397622951	0.811774194	0.486397059
GPPVPPPPK	0.09555	0.907644231	0.544090909	0.172941176	0.451818182	0.434538462

Suppl. Table 7

Peptides	*fdr*_AD dementia	*fdr*_Slope of Cognitive Decline	*fdr*_Residual Cog	*fdr*_Pathologic Diag.	*fdr*_Amyloid Patho	*fdr*_tangles
LQAHLVAQTNLLR	0.833269231	0.159	0.2905	0.036	0.0105	0.02044875
NQAEEELIK	0.853915663	0.7940625	0.792105263	0.036	0.02044875	0.389454545
AAPQWCQGK	0.512195122	0.448636364	0.448636364	0.118363636	0.344842105	0.285352941
AEEELIK	0.920684211	0.853915663	0.823636364	0.448636364	0.792105263	0.9576
AQPSDNAPAK	0.448636364	0.777	0.719150943	0.862670455	0.823636364	0.495833333
VNHEPEPAGGATPGATLPK	0.823636364	0.823636364	0.823636364	0.63	0.890217391	0.853915663
GPPVPPPPK	0.823636364	0.525	0.495833333	0.512195122	0.7940625	0.814545455

Suppl. Table 8

Peptides	*p*_Amyloid_adj	*p*_ Tau_adj
AAPQWCQGK	0.32	2.58E-05
LQAHLVAQTNLLR	0.04	2.11E-06
NQAEEELIK	0.000762	3.40E-05
AEEELIK	0.0323	0.72
AQPSDNAPAK	0.0447	0.469
VNHEPEPAGGATPGATLPK	0.103	0.849
GPPVPPPPK	0.357	0.0134

Suppl. Table 9

Peptide	Beta_peptide_cogdec	R2_peptide_cogdec	*p*_peptide_cogdec
LQAHLVAQTNLLR	0.0564	0.0148	4.63E-05
NQAEEELIK	0.0775	0.0179	7.34E-06
AAPQWCQGK	0.0287	0.00553	0.013
AEEELIK	-0.00473	0.00201	0.134
AQPSDNAPAK	-0.00497	0.00117	0.254
VNHEPEPAGGATPGATLPK	-0.00547	0.000736	0.365
GPPVPPPPK	0.0262	0.00315	0.0605

Beta_tau_cogdec	R2_tangles_cogdec	*p*_tangles_cogdec
-0.0327	0.2	7.59E-67

Peptide	Beta_peptide_cogdec_jt	R2_peptide_cogdec_jt	p_peptide_cogdec_jt	Beta_tangles_cogdec_jt	R2_tangles_cogdec_jt	p_tangles_cogdec_jt
LQAHLVAQTNLLR	0.029	0.00488	0.0202	-0.0332	0.197	1.59E-54
NQAEEELIK	0.0377	0.00531	0.0153	-0.0331	0.196	3.22E-54
AAPQWCQGK	0.0138	0.00163	0.18	-0.0333	0.199	5.36E-55
AEEELIK	-0.0047	0.00256	0.0927	-0.0339	0.207	1.65E-57
AQPSDNAPAK	-0.00404	0.000999	0.295	-0.0337	0.204	2.98E-56
VNHEPEPAGGATPGATLPK	-0.0063	0.00126	0.238	-0.0339	0.207	1.99E-57
GPPVPPPPK	0.00697	0.000285	0.575	-0.0338	0.204	1.07E-56

Suppl. Table 10

SNP	Peptides	beta	se	tstat	pval	n	df
rs10498633	LQAHLVAQTNLLR	-0.0022	0.0114	-0.194	0.846	1018	5;1013
rs10498633	NQAEEELIK	-0.00343	0.00893	-0.384	0.701	1018	5;1013
rs10498633	AAPQWCQGK	-0.0111	0.0127	-0.876	0.381	1015	5;1010
rs10498633	AEEELIK	-0.0257	0.0505	-0.508	0.611	1018	5;1013
rs10498633	AQPSDNAPAK	0.00223	0.0368	0.0607	0.952	1012	5;1007
rs10498633	VNHEPEPAGGATPGATLPK	-0.0137	0.0265	-0.517	0.605	1017	5;1012
rs10498633	GPPVPPPPK	-0.0055	0.0113	-0.485	0.628	1018	5;1013
rs10792832	LQAHLVAQTNLLR	0.00533	0.01	0.531	0.596	1018	5;1013
rs10792832	NQAEEELIK	0.0147	0.00788	1.86	0.0631	1018	5;1013
rs10792832	AAPQWCQGK	-0.00608	0.0112	-0.542	0.588	1015	5;1010
rs10792832	AEEELIK	-0.0803	0.0446	-1.8	0.0722	1018	5;1013
rs10792832	AQPSDNAPAK	-0.0128	0.0325	-0.395	0.693	1012	5;1007
rs10792832	VNHEPEPAGGATPGATLPK	-0.0286	0.0234	-1.22	0.222	1017	5;1012
rs10792832	GPPVPPPPK	-0.0152	0.01	-1.52	0.129	1018	5;1013
rs10838725	LQAHLVAQTNLLR	-0.00383	0.0105	-0.364	0.716	1018	5;1013
rs10838725	NQAEEELIK	-0.0026	0.00827	-0.314	0.753	1018	5;1013
rs10838725	AAPQWCQGK	-0.0124	0.0117	-1.05	0.293	1015	5;1010
rs10838725	AEEELIK	0.0197	0.0468	0.42	0.675	1018	5;1013
rs10838725	AQPSDNAPAK	-0.0263	0.034	-0.773	0.44	1012	5;1007
rs10838725	VNHEPEPAGGATPGATLPK	0.0304	0.0245	1.24	0.216	1017	5;1012
rs10838725	GPPVPPPPK	0.00472	0.0105	0.449	0.653	1018	5;1013
rs10948363	LQAHLVAQTNLLR	-0.0192	0.0109	-1.76	0.0792	1018	5;1013
rs10948363	NQAEEELIK	-0.0196	0.0086	-2.27	0.0231	1018	5;1013
rs10948363	AAPQWCQGK	-0.0136	0.0122	-1.11	0.268	1015	5;1010
rs10948363	AEEELIK	0.0223	0.0488	0.456	0.649	1018	5;1013
rs10948363	AQPSDNAPAK	0.00882	0.0356	0.248	0.804	1012	5;1007
rs10948363	VNHEPEPAGGATPGATLPK	0.0139	0.0256	0.543	0.587	1017	5;1012
rs10948363	GPPVPPPPK	-0.00565	0.0109	-0.517	0.606	1018	5;1013
rs11218343	LQAHLVAQTNLLR	-0.00627	0.0267	-0.234	0.815	1018	5;1013
rs11218343	NQAEEELIK	-0.00969	0.021	-0.461	0.645	1018	5;1013
rs11218343	AAPQWCQGK	-0.0192	0.0298	-0.643	0.52	1015	5;1010
rs11218343	AEEELIK	0.0126	0.119	0.106	0.916	1018	5;1013
rs11218343	AQPSDNAPAK	-0.0237	0.087	-0.273	0.785	1012	5;1007
rs11218343	VNHEPEPAGGATPGATLPK	0.0106	0.0624	0.17	0.865	1017	5;1012
rs11218343	GPPVPPPPK	-0.000202	0.0267	-0.00758	0.994	1018	5;1013
rs1171812	LQAHLVAQTNLLR	0.00831	0.0095	0.875	0.382	1018	5;1013
rs1171812	NQAEEELIK	0.0132	0.00747	1.77	0.0776	1018	5;1013
rs1171812	AAPQWCQGK	0.0216	0.0106	2.04	0.0419	1015	5;1010
rs1171812	AEEELIK	-0.0295	0.0423	-0.697	0.486	1018	5;1013
rs1171812	AQPSDNAPAK	-0.00562	0.0308	-0.182	0.855	1012	5;1007
rs1171812	VNHEPEPAGGATPGATLPK	-0.0131	0.0222	-0.589	0.556	1017	5;1012
rs1171812	GPPVPPPPK	0.00985	0.00949	1.04	0.3	1018	5;1013
rs11771145	LQAHLVAQTNLLR	0.00532	0.0114	0.465	0.642	1018	5;1013
rs11771145	NQAEEELIK	0.00694	0.009	0.771	0.441	1018	5;1013
rs11771145	AAPQWCQGK	0.00109	0.0128	0.0849	0.932	1015	5;1010
rs11771145	AEEELIK	-0.0856	0.0509	-1.68	0.093	1018	5;1013
rs11771145	AQPSDNAPAK	-0.037	0.0371	-0.996	0.319	1012	5;1007
rs11771145	VNHEPEPAGGATPGATLPK	-0.0396	0.0267	-1.49	0.138	1017	5;1012
rs11771145	GPPVPPPPK	0.00982	0.0114	0.86	0.39	1018	5;1013
rs12444183	LQAHLVAQTNLLR	0.00205	0.01	0.205	0.838	1018	5;1013
rs12444183	NQAEEELIK	-0.0043	0.00789	-0.545	0.586	1018	5;1013
rs12444183	AAPQWCQGK	-0.0105	0.0112	-0.935	0.35	1015	5;1010
rs12444183	AEEELIK	0.0392	0.0447	0.878	0.38	1018	5;1013
rs12444183	AQPSDNAPAK	-0.0285	0.0325	-0.877	0.381	1012	5;1007
rs12444183	VNHEPEPAGGATPGATLPK	0.0213	0.0234	0.909	0.364	1017	5;1012
rs12444183	GPPVPPPPK	-0.000817	0.01	-0.0815	0.935	1018	5;1013
rs1476679	LQAHLVAQTNLLR	-0.0172	0.0105	-1.64	0.1	1018	5;1013
rs1476679	NQAEEELIK	0.00479	0.00824	0.581	0.561	1018	5;1013
rs1476679	AAPQWCQGK	-0.00233	0.0117	-0.199	0.842	1015	5;1010
rs1476679	AEEELIK	-0.0192	0.0466	-0.411	0.681	1018	5;1013
rs1476679	AQPSDNAPAK	-0.0504	0.0339	-1.49	0.138	1012	5;1007
rs1476679	VNHEPEPAGGATPGATLPK	-0.017	0.0245	-0.695	0.487	1017	5;1012
rs1476679	GPPVPPPPK	0.000948	0.0105	0.0907	0.928	1018	5;1013
rs17125944	LQAHLVAQTNLLR	-0.016	0.0169	-0.95	0.342	1018	5;1013
rs17125944	NQAEEELIK	-0.00259	0.0133	-0.195	0.845	1018	5;1013
rs17125944	AAPQWCQGK	-0.00728	0.0188	-0.387	0.699	1015	5;1010
rs17125944	AEEELIK	0.0515	0.0751	0.686	0.493	1018	5;1013
rs17125944	AQPSDNAPAK	0.0141	0.0547	0.258	0.797	1012	5;1007
rs17125944	VNHEPEPAGGATPGATLPK	0.00547	0.0393	0.139	0.89	1017	5;1012
rs17125944	GPPVPPPPK	0.00316	0.0168	0.188	0.851	1018	5;1013
rs190982	LQAHLVAQTNLLR	0.00709	0.0106	0.668	0.504	1018	5;1013
rs190982	NQAEEELIK	-0.00208	0.00835	-0.249	0.804	1018	5;1013
rs190982	AAPQWCQGK	0.00266	0.0119	0.224	0.823	1015	5;1010
rs190982	AEEELIK	-0.0298	0.0473	-0.63	0.529	1018	5;1013
rs190982	AQPSDNAPAK	-0.0178	0.0344	-0.518	0.605	1012	5;1007
rs190982	VNHEPEPAGGATPGATLPK	-0.0136	0.0248	-0.551	0.582	1017	5;1012
rs190982	GPPVPPPPK	0.00721	0.0106	0.68	0.497	1018	5;1013
rs2718058	LQAHLVAQTNLLR	-0.0198	0.0105	-1.89	0.0586	1018	5;1013
rs2718058	NQAEEELIK	-0.00316	0.00826	-0.382	0.702	1018	5;1013
rs2718058	AAPQWCQGK	-0.000266	0.0118	-0.0227	0.982	1015	5;1010
rs2718058	AEEELIK	-0.0293	0.0468	-0.626	0.531	1018	5;1013
rs2718058	AQPSDNAPAK	-0.0104	0.0341	-0.304	0.761	1012	5;1007
rs2718058	VNHEPEPAGGATPGATLPK	-0.0157	0.0245	-0.643	0.521	1017	5;1012
rs2718058	GPPVPPPPK	-0.00641	0.0105	-0.612	0.541	1018	5;1013
rs28834970	LQAHLVAQTNLLR	-0.0128	0.0101	-1.26	0.207	1018	5;1013
rs28834970	NQAEEELIK	0.00872	0.00796	1.1	0.273	1018	5;1013
rs28834970	AAPQWCQGK	0.0234	0.0113	2.08	0.0379	1015	5;1010
rs28834970	AEEELIK	0.0317	0.0451	0.704	0.481	1018	5;1013
rs28834970	AQPSDNAPAK	0.0325	0.0327	0.992	0.322	1012	5;1007
rs28834970	VNHEPEPAGGATPGATLPK	0.0175	0.0236	0.742	0.458	1017	5;1012
rs28834970	GPPVPPPPK	0.0196	0.0101	1.94	0.0522	1018	5;1013

SNP	Peptides	beta	se	tstat	pval	n	df
rs35349669	LQAHLVAQTNLLR	-0.00368	0.0107	-0.343	0.732	1018	5;1013
rs35349669	NQAEEELIK	-0.00533	0.00844	-0.631	0.528	1018	5;1013
rs35349669	AAPQWCQGK	0.000858	0.012	0.0716	0.943	1015	5;1010
rs35349669	AEEELIK	0.0186	0.0478	0.389	0.697	1018	5;1013
rs35349669	AQPSDNAPAK	0.000725	0.0348	0.0208	0.983	1012	5;1007
rs35349669	VNHEPEPAGGATPGATLPK	0.00949	0.025	0.379	0.705	1017	5;1012
rs35349669	GPPVPPPPK	0.00798	0.0107	0.745	0.457	1018	5;1013
rs3865444	LQAHLVAQTNLLR	-0.00215	0.0105	-0.206	0.837	1018	5;1013
rs3865444	NQAEEELIK	-0.00322	0.00823	-0.391	0.696	1018	5;1013
rs3865444	AAPQWCQGK	-0.0178	0.0117	-1.53	0.127	1015	5;1010
rs3865444	AEEELIK	-0.0246	0.0466	-0.528	0.598	1018	5;1013
rs3865444	AQPSDNAPAK	0.0219	0.0339	0.647	0.518	1012	5;1007
rs3865444	VNHEPEPAGGATPGATLPK	-0.00685	0.0244	-0.281	0.779	1017	5;1012
rs3865444	GPPVPPPPK	-0.0191	0.0104	-1.83	0.0676	1018	5;1013
rs4147929	LQAHLVAQTNLLR	-0.0187	0.0141	-1.32	0.186	1018	5;1013
rs4147929	NQAEEELIK	-0.000184	0.0111	-0.0166	0.987	1018	5;1013
rs4147929	AAPQWCQGK	-0.00561	0.0158	-0.355	0.722	1015	5;1010
rs4147929	AEEELIK	0.032	0.0629	0.508	0.612	1018	5;1013
rs4147929	AQPSDNAPAK	0.052	0.0457	1.14	0.256	1012	5;1007
rs4147929	VNHEPEPAGGATPGATLPK	0.0484	0.033	1.47	0.142	1017	5;1012
rs4147929	GPPVPPPPK	-0.00465	0.0141	-0.329	0.742	1018	5;1013
rs442495	LQAHLVAQTNLLR	-0.00222	0.0105	-0.212	0.832	1018	5;1013
rs442495	NQAEEELIK	-0.00994	0.00822	-1.21	0.227	1018	5;1013
rs442495	AAPQWCQGK	-0.0241	0.0117	-2.07	0.0388	1015	5;1010
rs442495	AEEELIK	0.0153	0.0466	0.328	0.743	1018	5;1013
rs442495	AQPSDNAPAK	-0.0106	0.0339	-0.313	0.754	1012	5;1007
rs442495	VNHEPEPAGGATPGATLPK	0.00542	0.0244	0.222	0.824	1017	5;1012
rs442495	GPPVPPPPK	-0.0144	0.0104	-1.38	0.169	1018	5;1013
rs4575098	LQAHLVAQTNLLR	-0.00354	0.0119	-0.297	0.767	1018	5;1013
rs4575098	NQAEEELIK	0.00227	0.00938	0.241	0.809	1018	5;1013
rs4575098	AAPQWCQGK	0.015	0.0133	1.12	0.261	1015	5;1010
rs4575098	AEEELIK	-0.0148	0.0531	-0.278	0.781	1018	5;1013
rs4575098	AQPSDNAPAK	0.0371	0.0386	0.96	0.337	1012	5;1007
rs4575098	VNHEPEPAGGATPGATLPK	-0.0191	0.0278	-0.687	0.492	1017	5;1012
rs4575098	GPPVPPPPK	-0.000825	0.0119	-0.0693	0.945	1018	5;1013
rs6448453	LQAHLVAQTNLLR	0.0274	0.0108	2.53	0.0115	1018	5;1013
rs6448453	NQAEEELIK	0.00999	0.00852	1.17	0.241	1018	5;1013
rs6448453	AAPQWCQGK	0.00987	0.0121	0.815	0.415	1015	5;1010
rs6448453	AEEELIK	-0.0102	0.0483	-0.211	0.833	1018	5;1013
rs6448453	AQPSDNAPAK	0.0111	0.0351	0.317	0.751	1012	5;1007
rs6448453	VNHEPEPAGGATPGATLPK	-0.00807	0.0253	-0.319	0.75	1017	5;1012
rs6448453	GPPVPPPPK	0.00233	0.0108	0.215	0.829	1018	5;1013
rs6504163	LQAHLVAQTNLLR	0.00948	0.0117	0.811	0.418	1018	5;1013
rs6504163	NQAEEELIK	0.0145	0.00918	1.58	0.115	1018	5;1013
rs6504163	AAPQWCQGK	0.0136	0.0131	1.04	0.297	1015	5;1010
rs6504163	AEEELIK	0.0215	0.0521	0.413	0.68	1018	5;1013
rs6504163	AQPSDNAPAK	-0.0503	0.0379	-1.33	0.185	1012	5;1007
rs6504163	VNHEPEPAGGATPGATLPK	0.00355	0.0273	0.13	0.897	1017	5;1012
rs6504163	GPPVPPPPK	-0.00336	0.0117	-0.288	0.774	1018	5;1013
rs6656401	LQAHLVAQTNLLR	0.0149	0.0127	1.17	0.241	1018	5;1013
rs6656401	NQAEEELIK	0.0107	0.00997	1.07	0.283	1018	5;1013
rs6656401	AAPQWCQGK	0.0218	0.0142	1.54	0.124	1015	5;1010
rs6656401	AEEELIK	-0.0426	0.0565	-0.755	0.45	1018	5;1013
rs6656401	AQPSDNAPAK	-0.0377	0.0413	-0.912	0.362	1012	5;1007
rs6656401	VNHEPEPAGGATPGATLPK	-0.0185	0.0296	-0.624	0.533	1017	5;1012
rs6656401	GPPVPPPPK	0.0157	0.0127	1.24	0.215	1018	5;1013
rs6733839	LQAHLVAQTNLLR	0.0155	0.0125	1.24	0.217	1018	5;1013
rs6733839	NQAEEELIK	-0.0139	0.00984	-1.41	0.159	1018	5;1013
rs6733839	AAPQWCQGK	-0.0378	0.0139	-2.72	0.00674	1015	5;1010
rs6733839	AEEELIK	0.0393	0.0558	0.705	0.481	1018	5;1013
rs6733839	AQPSDNAPAK	0.0164	0.0407	0.402	0.688	1012	5;1007
rs6733839	VNHEPEPAGGATPGATLPK	0.0281	0.0292	0.964	0.336	1017	5;1012
rs6733839	GPPVPPPPK	-0.00985	0.0125	-0.788	0.431	1018	5;1013
rs7274581	LQAHLVAQTNLLR	0.00807	0.0177	0.456	0.648	1018	5;1013
rs7274581	NQAEEELIK	0.0132	0.0139	0.948	0.344	1018	5;1013
rs7274581	AAPQWCQGK	0.00147	0.0197	0.0743	0.941	1015	5;1010
rs7274581	AEEELIK	-0.111	0.0786	-1.41	0.159	1018	5;1013
rs7274581	AQPSDNAPAK	-0.0721	0.0575	-1.25	0.21	1012	5;1007
rs7274581	VNHEPEPAGGATPGATLPK	-0.0748	0.0413	-1.81	0.0702	1017	5;1012
rs7274581	GPPVPPPPK	-0.0151	0.0176	-0.855	0.393	1018	5;1013
rs9271192	LQAHLVAQTNLLR	0.0159	0.0107	1.48	0.139	1018	5;1013
rs9271192	NQAEEELIK	0.00598	0.00844	0.709	0.478	1018	5;1013
rs9271192	AAPQWCQGK	0.0116	0.012	0.967	0.334	1015	5;1010
rs9271192	AEEELIK	-0.041	0.0478	-0.859	0.39	1018	5;1013
rs9271192	AQPSDNAPAK	0.0389	0.0347	1.12	0.263	1012	5;1007
rs9271192	VNHEPEPAGGATPGATLPK	-0.0246	0.025	-0.984	0.325	1017	5;1012
rs9271192	GPPVPPPPK	0.00847	0.0107	0.791	0.429	1018	5;1013
rs9331896	LQAHLVAQTNLLR	-0.0196	0.0101	-1.94	0.0529	1018	5;1013
rs9331896	NQAEEELIK	-0.00154	0.00798	-0.193	0.847	1018	5;1013
rs9331896	AAPQWCQGK	0.00139	0.0113	0.123	0.902	1015	5;1010
rs9331896	AEEELIK	0.0425	0.0452	0.94	0.347	1018	5;1013
rs9331896	AQPSDNAPAK	0.115	0.0327	3.51	0.000475	1012	5;1007
rs9331896	VNHEPEPAGGATPGATLPK	0.0252	0.0237	1.06	0.288	1017	5;1012
rs9331896	GPPVPPPPK	0.00417	0.0101	0.412	0.681	1018	5;1013
rs983392	LQAHLVAQTNLLR	0.0124	0.0097	1.28	0.201	1018	5;1013
rs983392	NQAEEELIK	0.00558	0.00764	0.731	0.465	1018	5;1013
rs983392	AAPQWCQGK	0.0115	0.0108	1.06	0.287	1015	5;1010
rs983392	AEEELIK	0.0094	0.0432	0.217	0.828	1018	5;1013
rs983392	AQPSDNAPAK	-0.00949	0.0314	-0.302	0.763	1012	5;1007
rs983392	VNHEPEPAGGATPGATLPK	-0.000508	0.0227	-0.0224	0.982	1017	5;1012
rs983392	GPPVPPPPK	-0.00196	0.00969	-0.202	0.84	1018	5;1013

Suppl. Table 11

outcome	Peptides	beta	se	tstat	pval	n	fdr
tangles_sqrt	LQAHLVAQTNLLR	-0.8	0.243	-3.29	0.0011	430	0.0077
tangles_sqrt	NQAEEELIK	-0.495	0.316	-1.57	0.118	430	0.34533333
tangles_sqrt	AAPQWCQGK	-0.33	0.227	-1.45	0.148	430	0.34533333
tangles_sqrt	AEEELIK	0.00454	0.0574	0.0791	0.937	430	0.937
tangles_sqrt	AQPSDNAPAK	-0.051	0.0799	-0.639	0.523	430	0.91525
tangles_sqrt	VNHEPEPAGGATPGATLPK	-0.0294	0.108	-0.271	0.786	430	0.917
tangles_sqrt	GPPVPPPPK	-0.128	0.306	-0.419	0.675	430	0.917

Suppl. Table 12

Peptides	covariates	beta	se	tstat	pval	n	fdr
LQAHLVAQTNLLR	age_death;msex	-0.000237	0.00021	-1.13	0.261	579	0.7175
NQAEEELIK	age_death;msex	-0.000182	0.000156	-1.17	0.242	579	0.7175
AAPQWCQGK	age_death;msex	-0.000325	0.000181	-1.8	0.0725	579	0.7175
AEEELIK	age_death;msex	0.000753	0.000914	0.824	0.41	579	0.7175
AQPSDNAPAK	age_death;msex	0.000249	0.00068	0.367	0.714	578	0.768923077
VNHEPEPAGGATPGATLPK	age_death;msex	0.000208	0.000474	0.438	0.661	578	0.768923077
GPPVPPPPK	age_death;msex	-0.000201	0.000162	-1.24	0.215	579	0.7175
LQAHLVAQTNLLR	age_death;msex;tangles_sqrt;amyloid_sqrt	-5.45E-05	0.00021	-0.26	0.795	579	0.795
NQAEEELIK	age_death;msex;tangles_sqrt;amyloid_sqrt	-0.000107	0.000156	-0.683	0.495	579	0.768923077
AAPQWCQGK	age_death;msex;tangles_sqrt;amyloid_sqrt	-0.000261	0.000184	-1.42	0.155	579	0.7175
AEEELIK	age_death;msex;tangles_sqrt;amyloid_sqrt	0.000786	0.000934	0.842	0.4	579	0.7175
AQPSDNAPAK	age_death;msex;tangles_sqrt;amyloid_sqrt	0.000271	0.000694	0.39	0.697	578	0.768923077
VNHEPEPAGGATPGATLPK	age_death;msex;tangles_sqrt;amyloid_sqrt	0.00026	0.000484	0.537	0.592	578	0.768923077
GPPVPPPPK	age_death;msex;tangles_sqrt;amyloid_sqrt	-0.000164	0.000166	-0.988	0.324	579	0.7175