

Table S8

	Illumina Probe ID	Gene Symbol	Module	Green
Top Alzheimer GWAS Genes	ILMN_1740938	APOE	-	-
	ILMN_1674160	BIN1	Turquoise	NO
	ILMN_2309245	BIN1	Turquoise	YES
	ILMN_1667058	CLU	-	-
	ILMN_1798298	CLU	-	-
	ILMN_1691483	CLU	-	-
	ILMN_1743205	ABCA7	Blue	NO
	ILMN_2259319	ABCA7	-	-
	ILMN_1729894	ABCA7	-	-
	ILMN_2388112	CR1	Blue	NO
	ILMN_1742601	CR1	Blue	NO
	ILMN_1767193	CR1	-	-
	ILMN_1731118	CR1	-	-
	ILMN_1715273	PICALM	Pink	NO
	ILMN_1778709	PICALM	-	-
	ILMN_1721035	MS4A6A	Red	NO
	ILMN_2359800	MS4A6A	Red	NO
	ILMN_1797731	MS4A6A	-	-
	ILMN_1747622	CD33	-	-
	ILMN_1699348	MS4A4E	-	-
	ILMN_1730433	CD2AP	-	-
	ILMN_1664265	EPHA1	-	-
	ILMN_1670038	EXOC3L2	-	-
Candidate genes associated with AD	ILMN_1653283	APP	-	-
	ILMN_2404065	APP	-	-
	ILMN_2404063	APP	-	-
	ILMN_1808548	PSEN1	-	-
	ILMN_1809193	PSEN1	-	-
	ILMN_1796669	PSEN1	-	-
	ILMN_1744267	PSEN1	-	-
	ILMN_2404512	PSEN2	-	-
	ILMN_1714417	PSEN2	-	-
	ILMN_1735180	NCSTN	Turquoise	NO
	ILMN_1669718	PSENEN	-	-
	ILMN_1658472	APH-1A	-	-
	ILMN_2398388	APH-1A	-	-
	ILMN_1767816	APH-1B	-	-
	ILMN_2320349	BACE1	-	-
	ILMN_1797804	BACE1	-	-
	ILMN_2310814	MAPT	-	-
	ILMN_1800049	MAPT	-	-
ILMN_1710903	MAPT	-	-	

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ILMN_2298727	MAPT	-	-
ILMN_1779376	GSK3B	Blue	NO
ILMN_1724250	GRN	Turquoise	NO
ILMN_1811702	GRN	-	-
ILMN_1766475	MGAT3	-	-
ILMN_1853824	MGAT3	-	-
ILMN_1759818	SORL1	Blue	YES
ILMN_2060115	SORL1	-	-

Mitochondrial complex I: NADH dehydrogenase (ubiquinone) subunit genes - there are 45 complex I genes in the human genome

-	MTND1	-	-
-	MTND2	-	-
-	MTND3	-	-
-	MTND4	-	-
-	MTND4L	-	-
-	MTND5	-	-
-	MTND6	-	-
ILMN_1784286	NDUFA1	Black	NO
-	NDUFA2	-	-
ILMN_1784641	NDUFA3	-	-
ILMN_1751258	NDUFA4	Black	YES
ILMN_1759973	NDUFA5	-	-
-	NDUFA6	-	-
ILMN_1675239	NDUFA7	-	-
ILMN_1759729	NDUFA8	Black	NO
ILMN_1760741	NDUFA9	Black	NO
ILMN_2225698	NDUFA10	-	-
ILMN_2175712	NDUFA11	-	-
ILMN_1737738	NDUFA12	-	-
ILMN_1767139	NDUFA13	-	-
ILMN_2179018	NDUFAB1	Red	NO
ILMN_1724367	NDUFB1	-	-
ILMN_2117330	NDUFB2	Black	NO
ILMN_2119945	NDUFB3	Black	YES
ILMN_2119937	NDUFB3	Black	YES
ILMN_1770589	NDUFB4	-	-
ILMN_1807397	NDUFB5	Red	YES
ILMN_2369924	NDUFB6	Black	YES
ILMN_1763147	NDUFB6	Black	YES
ILMN_1813604	NDUFB7	-	-
ILMN_1661170	NDUFB8	-	-
-	NDUFB9	-	-
ILMN_1811754	NDUFB10	-	-
ILMN_1749709	NDUFB11	Turquoise	NO

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ILMN_1733603	NDUFC1	-	-
ILMN_1694274	NDUFC2	-	-
ILMN_1728810	NDUFS1	-	-
ILMN_1789342	NDUFS2	-	-
ILMN_1756355	NDUFS3	-	-
ILMN_1812312	NDUFS4	-	-
ILMN_1776104	NDUFS5	-	-
ILMN_1794303	NDUFS6	-	-
ILMN_1669966	NDUFS7	-	-
ILMN_1794132	NDUFS8	-	-
ILMN_1786718	NDUFV1	-	-
ILMN_2086417	NDUFV2	-	-
ILMN_2387731	NDUFV3	-	-
Mitochondrial complex II: succinate dehydrogenase subunit genes - there are 4 complex II genes in the human genome			
ILMN_1744210	SDHA	Turquoise	NO
ILMN_2051232	SDHA	Turquoise	NO
ILMN_1667257	SDHB	-	-
ILMN_2323366	SDHC	-	-
ILMN_1698487	SDHD	Brown	YES
Mitochondrial complex III: ubiquinol-cytochrome c reductase complex subunit genes- there are 10 complex III genes in the human genome			
ILMN_1815115	CYC1	Turquoise	NO
-	MT-CYB	-	-
-	UQCR10	-	-
-	UQCR11	-	-
ILMN_1759453	UQCRB	-	-
ILMN_1671191	UQCRC1	Turquoise	YES
ILMN_1718853	UQCRC2	Red	YES
ILMN_1701749	UQCRFS1	-	-
ILMN_1792138	UQCRH	Black	YES
ILMN_2232936	UQCRH	-	-
ILMN_1666471	UQCRQ	Black	YES
Mitochondrial complex IV: cytochrome c oxidase subunit genes - there are 19 complex IV genes in the human genome			
ILMN_1652207	COX4I1	-	-
ILMN_1815634	COX4I2	-	-
ILMN_1704477	COX5A	-	-
ILMN_1663512	COX5B	Black	NO
ILMN_1783636	COX6A1	-	-
ILMN_1752481	COX6A2	-	-
ILMN_2154671	COX6B1	-	-
ILMN_1725547	COX6B2	-	-

OXPHOS Genes

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ILMN_1654151	COX6C	Black	YES
ILMN_1662419	COX7A1	-	-
ILMN_1701293	COX7A2	Black	YES
ILMN_2184049	COX7B	-	-
ILMN_1674658	COX7B2	-	-
ILMN_1798189	COX7C	Black	NO
ILMN_1809495	COX8A	-	-
ILMN_1744432	COX8C	-	-
-	MT-CO1	-	-
-	MT-CO2	-	-
-	MT-CO3	-	-

Mitochondrial complex V: ATP synthase subunit genes - there are 18 complex V genes in the human genome

ILMN_1764494	ATP5A1	-	-
ILMN_1772132	ATP5B	-	-
ILMN_1701269	ATP5C1	Black	YES
ILMN_1653599	ATP5D	-	-
ILMN_1679178	ATP5D	-	-
-	ATP5E	-	-
ILMN_1721989	ATP5F1	Black	NO
ILMN_1672191	ATP5F1	-	-
ILMN_1676393	ATP5G1	-	-
ILMN_1660577	ATP5G2	-	-
ILMN_1770466	ATP5G3	-	-
ILMN_1666372	ATP5H	Black	YES
ILMN_1794912	ATP5H	Black	YES
ILMN_1772506	ATP5I	Black	NO
ILMN_1726603	ATP5I	Black	NO
ILMN_2348093	ATP5J	Black	NO
ILMN_1772929	ATP5J	Black	NO
ILMN_1652806	ATP5J	-	-
ILMN_2307883	ATP5J2	Black	NO
ILMN_2079285	ATP5L	-	-
ILMN_1812638	ATP5L	Black	NO
-	ATP5L2	-	-
ILMN_1791332	ATP5O	Black	YES
ILMN_1727332	ATPIF1	Black	NO
-	MT-ATP6	-	-
-	MT-ATP8	-	-

Mitochondrial ribosome proteins - there are ~88 MRP genes in the human genome of which at least one probe for the following 27 genes was significantly altered in MCI and/or AD blood

ILMN_2097421	MRPL51	Black	NO
ILMN_1797933	MRPL17	Black	NO
ILMN_1706326	MRPL33	Black	NO

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MRP Genes	ILMN_1726417	MRPL33	Black	YES
	ILMN_1658416	MRPS18C	Black	NO
	ILMN_1655765	MRPS21	Black	NO
	ILMN_2341952	MRPL35	Black	YES
	ILMN_1748819	MRPL22	Black	NO
	ILMN_1663220	MRPL22	-	-
	ILMN_1655377	MRPS22	-	-
	ILMN_1799289	MRPL55	Black	NO
	ILMN_1741264	MRPS33	Black	NO
	ILMN_1804851	MRPS17	Black	YES
	ILMN_1695576	MRPL24	Black	NO
	ILMN_1800197	MRPL36	Black	NO
	ILMN_1726391	MRPL39	Black	NO
	ILMN_1744835	MRPL21	Black	NO
	ILMN_2348050	MRPL21	Black	YES
	ILMN_1718424	MRPS28	-	-
	ILMN_1713143	MRPL3	Black	NO
	ILMN_1664833	MRPL50	-	-
	ILMN_1811327	MRPL27	Black	NO
	ILMN_2356895	MRPL42	-	-
	ILMN_1687359	MRPS23	Black	NO
	ILMN_1687403	MRPL40	-	-
	ILMN_1749432	MRPL32	Red	YES
	ILMN_1773369	MRPL48	-	-
	ILMN_1671158	MRPL13	-	-
	ILMN_1654552	MRPS31	Red	NO
	ILMN_1813389	MRPS7	-	-
	ILMN_1749591	ITGAL	Turquoise	YES
	ILMN_2175912	ITGB2	Turquoise	NO
	ILMN_1654396	ITGB2	-	-
	ILMN_1685009	ITGAM	Blue	NO
	ILMN_1730176	ITGAX	Blue	NO
	ILMN_1726175	ITGAX	-	-
	ILMN_2254635	ITGAX	-	-
	ILMN_1777519	ITGB7	Turquoise	NO
	ILMN_1710326	CLDND1	Brown	NO
	ILMN_2352563	CLDND1	-	-
	ILMN_1708348	ADAM8	Blue	NO
	ILMN_1718946	ADAM10	Pink	NO
	ILMN_2148360	ADAM10	-	-
	ILMN_2313079	NLRP1	Blue	NO
	ILMN_1810045	NLRP1	-	-
	ILMN_1739815	NLRP12	Blue	NO
	ILMN_1758735	NLRP12	Blue	YES

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Immune Genes	ILMN_1716105	NLRP12	Blue	NO
	ILMN_1716704	NLRC5	-	-
	ILMN_1781752	CLEC16A	Turquoise	YES
	ILMN_1808979	CLEC4D	-	-
	ILMN_1709204	CLEC4A	Brown	NO
	ILMN_2399363	CLEC4A	-	-
	ILMN_1700610	CLEC7A	Pink	NO
	ILMN_1654504	CLEC7A	-	-
	ILMN_2323992	CLEC7A	-	-
	ILMN_1681301	AIM2	Brown	NO
	ILMN_2214232	AIM2	-	-
	ILMN_1772387	TLR2	-	-
	ILMN_1657892	TLR8	Blue	YES
	ILMN_1682251	TLR8	-	-
	ILMN_1705047	TLR8	-	-
	ILMN_2368318	FGR	Blue	NO
	ILMN_2272519	FGR	-	-
	ILMN_1795158	FGR	-	-
	ILMN_2380801	FYN	-	-
	ILMN_1781207	FYN	-	-
	ILMN_1686555	FYN	-	-
	ILMN_2249920	FYN	-	-
	ILMN_1709795	RAC2	-	-