

Supplementary Table 1:**Alzheimer's Disease Patient sample details**

PATHID	REGTRYID	CSFID	PATHDX1	BRAAK1	SEX
5919	3454	12/064	Normal	1	F
5844	2115	5844	Normal	2	F
5699	14043		Alzheimer's changes	2	F
5662	14005		Alzheimer's changes	2	F
5655	2785		Alzheimer's changes	2	F
5447	14080		Alzheimer's changes	1	F
5398	14083		Alzheimer's changes	0	F
5372			Normal	1	F
5356	2861		Alzheimer's changes	1	F
5937	3183	5937	Alzheimer's disease	6	F
5933	8052	5933	Alzheimer's disease	6	F
5930	3070	5930	Alzheimer's disease	6	F
5928	3265	13/010	Alzheimer's disease	6	F
5921	3435	13/057	Alzheimer's disease	6	F
5912	3188	13/002	Alzheimer's disease	6	F
5906	3532	11/014	Alzheimer's disease	6	F
5899	3682	5899	Alzheimer's disease	6	F
5892	3449	5892	Alzheimer's disease	6	F
5889	3213	5889	Alzheimer's disease	6	F
5885	3845	12/013	Alzheimer's disease	6	F
5834		15/027	Alzheimer's disease	6	F
5830	3523	15/004	Alzheimer's disease	6	F
5931	3088		Alzheimer's disease	6	F
5918	8233		Alzheimer's disease	6	F

Supplementary Table 2:

Position-Specific Scoring Matrix for TR4

A	C	G	T
0.276	0.204	0.254	0.266
0.329	0.070	0.202	0.399
0.076	0.436	0.243	0.245
0.149	0.374	0.127	0.350
0.420	0.067	0.364	0.149
0.027	0.669	0.153	0.151
0.108	0.082	0.070	0.740
0.014	0.047	0.07	0.869
0.018	0.906	0.047	0.029
0.059	0.784	0.065	0.092
0.190	0.082	0.585	0.143
0.035	0.051	0.842	0.072
0.106	0.123	0.591	0.180
0.076	0.117	0.278	0.529
0.063	0.534	0.174	0.229
0.354	0.286	0.209	0.150