**Table S1.** Tested phenotypes.

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| --- |
| **Phenotypes** |
| ADAS Cog Total 11 Score Baseline |
| % Change in ADAS Cog Total 11 Score |
| Whole Brain Volume (Baseline) |
| Left Hippocampal Volume (Baseline) |
| Right Hippocampal Volume (Baseline) |
| Annualized Whole Brain Volume Atrophy  |
| Annualized Left Hippocampal Volume Atrophy  |
| Annualized Right Hippocampal Volume Atrophy  |
| Average HOC (Baseline) |
| % Change HOC  |
| Parahippocampal Cortex Thickness (Baseline) |
| % Change Parahippocampal Cortex Thickness  |
| Entorhinal Cortex Thickness (Baseline) |
| % Change Entorhinal cortex |
| Temporal Pole Thickness (Baseline) |
| % Change Temporal Pole Thickness  |

This is a list of the 16 phenotypes we tested for association with mtDNA. Change measures are for 2 year longitudinal data. Volumes were normalized. HOC; Hippocampal Occupancy Score