Supplementary Table S1

Strain	Transgene	Phenotype
N2	-	Wild type
CB4088	*him-5*(e1490)	Male worms
CL4176	*myo-3*$_P$::A$\beta_{1\text{-}42}$:: + rol-6(su1006)	Rapid paralysis at 23℃ [1]
CL2355	*snb-1*::A$\beta_{1\text{-}42}$ + *mtl-2*::GFP	Deficits in chemotaxis, associative learning, and thrashing in liquid [2, 3]
CL2122	unc54(vector) + *mtl-2*::GFP	Phenotype apparently WT. Control strain for CL2355 in the study [4]
CL802	*smg-1*(cc546) + rol-6(su1006)	Control strain for CL4176 [5]
CL2166	*gst-4*$_P$::GFP	Expression of GFP by improve *gst-4* function [6]
EG1285	*unc-47*$_P$::GFP	Expression of GFP in all GABAergic neurons [7]
BL5717	*ida-1*$_P$::GFP	Expression of GFP in 4 motor neurons in ventral nerve cord [8]
UA57	*dat-1*$_P$::GFP+ *dat-1*$_P$::CAT-2	GFP expression in cephalic (CEP), and anterior deirid (ADE) dopaminergic neurons [9]
NC571	*unc-4*$_P$::*snb-1*::GFP	Punctate GFP expression observed in ventral nerve cord, VC4 and VC5 [8]
NUCM0001	*snb-1*::A$\beta_{1\text{-}42}$ + *mtl-2*::GFP + *unc-47*$_P$::GFP	Expression of GFP in all GABAergic neurons of Aβ-induced AD nematodes in the study
NUCM0002	*snb-1*::A$\beta_{1\text{-}42}$ + *mtl-2*::GFP + *ida-1*$_P$::GFP	Expression of GFP in 4 motor neurons in ventral nerve cord, of Aβ-induced AD nematodes in the study
NUCM0003	*snb-1*::A$\beta_{1\text{-}42}$ + *mtl-2*::GFP + *dat-1*$_P$::GFP+ *dat-1*$_P$::CAT-2	GFP expression in CEP, and ADE neurons of Aβ-induced AD nematodes in the study
NUCM0004	*snb-1*::A$\beta_{1\text{-}42}$ + *mtl-2*::GFP + *unc-4*$_P$::*snb-1*::GFP	Punctate GFP expression observed in ventral nerve cord,, VC4 and VC5 of Aβ-induced AD nematodes in the study

Note: NUCM0001, NUCM0002, NUCM0003, NUCM0004 are generated by crossing in the study, other strains are obtained from the *Caenorhabditis* Genetics Center (https://cgc.umn.edu/).

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