

Supplemental Information

Name	Strain	Genotype
Figure 1		
WT	JPS915	<i>vxEx893[pmyo-2::mCherry::unc-54 UTR]; vxIs591[ptph-1::GFP::unc-54 UTR]</i>
	JPS977	<i>vxEx947[pmyo-2::mCherry::unc-54 UTR]; vxIs591</i>
APP	JPS916	<i>vxEx893; vxIs808[SC_prab-3::APP::mCherry::unc-54 UTR]; vxIs591</i>
	JPS917	<i>vxEx947; vxIs808; vxIs591</i>
exAPOE3	JPS918	<i>vxEx894[prab-3::ApoE3::unc-54 UTR (15 ng/μL), pmyo-2::mCherry::unc-54 UTR]; vxIs591</i>
	JPS952	<i>vxEx944[prab-3::ApoE3::unc-54 UTR (15 ng/μL), pmyo-2::mCherry::unc-54 UTR]; vxIs591</i>
exAPOE3+APP	JPS919	<i>vxEx894; vxIs808; vxIs591</i>
	JPS953	<i>vxEx944; vxIs808; vxIs591</i>
exAPOE3h+APP	JPS954	<i>vxEx945[prab-3::ApoE3::unc-54 UTR (30 ng/μL), pmyo-2::mCherry::unc-54 UTR]; vxIs808; vxIs591</i>
	JPS955	<i>vxEx946[prab-3::ApoE3::unc-54 UTR (30 ng/μL), pmyo-2::mCherry::unc-54 UTR]; vxIs808; vxIs591</i>
exAPOE4	JPS973	<i>vxEx948[prab-3::ApoE4::unc-54 UTR (15 ng/μL), pmyo-2::mCherry::unc-54 UTR]; vxIs591</i>
	JPS975	<i>vxEx949[prab-3::ApoE4::unc-54 UTR (15 ng/μL), pmyo-2::mCherry::unc-54 UTR]; vxIs591</i>
exAPOE4+APP	JPS974	<i>vxEx948; vxIs808; vxIs591</i>
	JPS976	<i>vxEx949; vxIs808; vxIs591</i>
Figure 2		
WT	JPS617	<i>vxIs591</i>
APP	JPS809	<i>vxIs808; vxIs591</i>
SC_APL-1	JPS770	<i>vxSi770[SC_Prab-3::APL-1::mCherry::APL-1 UTR]</i>
SC_APL-1+ green neurons	JPS799	<i>vxSi770; vxIs591</i>
exAPOE4	JPS975	<i>vxEx949; vxIs591</i>

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APP+exAPOE4	JPS974	<i>vxEx948; vxls808; vxls591</i>
SC_APL-1 +exAPOE4	JPS1166	<i>vxSi770; vxEx949; vxls591</i>

Figure 3

WT	JPS617	<i>vxls591</i>
APP	JPS809	<i>vxls808; vxls591</i>
APOE3	JPS1312	<i>sybls2443[prab-3::ApoE3::unc-54 UTR, pmyo-2::mCherry::unc-54 UTR]; vxls591</i>
APOE4	JPS844	<i>vxls824[prab-3::ApoE4::unc-54 UTR, pmyo-2::mCherry::unc-54 UTR], vxls591</i>
APOE4+APP	JPS845	<i>vxls808; vxls824, vxls591</i>

Figure 4

WT	JPS999	<i>vxEx989[pdel-1::GFP::unc-54 UTR, punc-122::GFP::unc-54 UTR]</i>
APOE4+APP	JPS1000	<i>vxEx989; vxls808; vxls824; vxls591</i>

Figure 5

APP	JPS809	<i>vxls808; vxls591</i>
APP+exAPOE4 - intestine	JPS932	<i>vxEx895[pfat-7::ApoE4::unc-54 UTR, pmyo-2::mCherry::unc-54 UTR]; vxls808; vxls591</i>
	JPS933	<i>vxEx896[pfat-7::ApoE4::unc-54 UTR, pmyo-2::mCherry::unc-54 UTR]; vxls808; vxls591</i>
APP+exAPOE4 - coelomocytes	JPS938	<i>vxEx990[punc-122::ApoE4::unc-54 UTR, pmyo-2::mCherry::unc-54 UTR]; vxls808; vxls591</i>
	JPS939	<i>vxEx991[punc-122::ApoE4::unc-54 UTR, pmyo-2::mCherry::unc-54 UTR]; vxls808; vxls591</i>
APP+exAPOE4 - neurons	JPS974	<i>vxEx948; vxls808; vxls591</i>
	JPS976	<i>vxEx949; vxls808; vxls591</i>

Figure 6

APOE4+APP	JPS845	<i>vxls808; vxls824, vxls591</i>
APOE4+APP; <i>ced-3</i>	JPS972	<i>vxls808; ced-3(n1286) IV; vxls824, vxls591</i>

Figure S1

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APP+exAPOE4	JPS974	<i>vxEx948; vxIs808; vxIs591</i>
Figure S2		
APP	JPS809	<i>vxIs808; vxIs591</i>
APP+exAPOE4	JPS974	<i>vxEx948; vxIs808; vxIs591</i>
Figure S3		
WT	JPS617	<i>vxIs591</i>
IsAPOE3	JPS1312	<i>sybIs2443[prab-3::ApoE3::unc-54 UTR, pmyo-2::mCherry::unc-54 UTR]; vxIs591</i>
IsAPOE4+APP	JPS845	<i>vxIs808; vxIs824, vxIs591</i>
exAPOE3h+APP	JPS954	<i>vxEx945; vxIs808; vxIs591</i>
exAPOE4	JPS975	<i>vxEx949; vxIs591</i>