

Direct in-cell observation of structural progression of amyloid- $\beta$  Arctic mutant aggregation

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### **Supporting information**

Figure S1

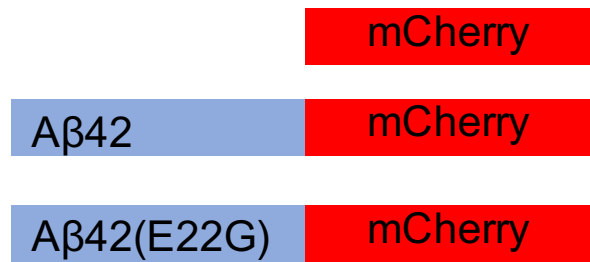


Figure S1. Three single-copy, stable cell lines in Flp-In T-Rex293 cells expressing mCherry, mCherry-A $\beta$ (WT) or mCherry-A $\beta$ (E22G).

**Video 1:** 3D SIM reconstruction of fibril pools in cytosol.

**Video 2:** 3D SIM reconstruction of oligomers, single fibrils and fibril clusters.

**Video 3:** 3D SIM reconstruction of a compacted aggresome.

#### KEY RESOURCES TABLE

REAGENT or RESOURCE	SOURCE	IDENTIFIER
Chemicals, Peptides, and Recombinant Proteins		
DMEM	Sigma	Cat#D5546
Hygromycine B	Sigma	Cat#10843555001
Blasticidine S hydrochloride	Sigma	Cat#15205
FBS	Sigma	Cat#F2442
Hoechst 33258	Sigma	Cat#94403
Critical Commercial Assays		
QIAprep Spin Miniprep Kit	QIAGEN	Cat#27104
QIAprep Gel Extraction Kit	QIAGEN	Cat#28704
DNeasy Blood&Tissue Kit	QIAGEN	Cat#69504
DreamTaq Hot Start DNA Polymerase	ThermoFisher	Cat#EP1701
Phusion High-Fidelity PCR Kit	NEB	Cat#E0553S
Experimental Models: Cell Lines		
mCherry cells	This paper	N/A

mCherry-A $\beta$ (WT) cells	This paper	N/1
mCherry-A $\beta$ (E22G) cells	This paper	N/A
Flp-In T-Rex293	Thermo SCIENTIFIC	Cat#R78007
HDQ72-EGFP cells	Reference 32	N/A
Recombinant DNA		
pcDNA5/FRT/TO-mCherry	This paper	N/A
pcDNA5/FRT/TO-mCherry-A $\beta$ (WT)	This paper	N/A
pcDNA5/FRT/TO-mCherry-A $\beta$ (E22G)	This paper	N/A
pcDNA5/FRT/TO	Thermo SCIENTIFIC	Cat#V652020

Sequence of plasmids used for stable cell line construction are shown below:

pcDNA5/FRT/TO-mCherry

GACGGATCGGGAGATCTCCCGATCCCCTATGGTGC ACTCTCAGTACAATCTGCTC  
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pcDNA5/FRT/TO-mCherry-A $\beta$ (WT)

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pcDNA5/FRT/TO-mCherry-A $\beta$ (E22G)

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