Curated Sets of iPSCs

*For more detailed cell line information, please see the iPSC Catalog

Table A. APOE Variants

Set Name	IUGB IDs	Notes
APOE	IUGB16	Includes patient-derived
Variants	IUGB32	lines that have APOE
	IUGB40	ε4/ε4 genotype
	IUGB43	
	IUGB45	
	IUGB406	
	IUGB72	
	IUGB344	
	IUGB355	
	IUGB364	
	IUGB517	
	IUGB183	
	IUGB377	
	IUGB438.1	

Table B. Lines with Patient-Derived Mutations

Set Name	IUGB IDs	Notes
PSEN2	IUGB3	Includes patient-derived lines with
Mutations	IUGB4	pathogenic PSEN2 mutations
PSEN1	IUGB259	Includes patient-derived lines with
Mutations	IUGB260	pathogenic PSEN1 mutations
	IUGB416	
	IUGB422	
Duplicate	IUGB61.1	Includes clones of patient-derived
APP	IUGB61.2	lines with pathogenic duplicate
	IUGB61.3	APP mutations
	IUGB62.1	
	IUGB62.2	
	IUGB62.3	
APP	IUGB5	Includes patient-derived lines with
mutations	IUGB358	pathogenic APP mutations

Table C. Isogenic Sets

Set Name	IUGB IDs	Notes
MAPT	21 lines	Includes patient-derived parental cell line
Isogenic		containing pathogenic MAPT mutation,
Lines		isogenic control, heterozygous and
		homozygous isogenic mutants
APP	13 lines	Includes patient-derived wild-type
Isogenic		parental cell line, isogenic control,
Lines		heterozygous and homozygous isogenic
		mutants
PSEN1	6 lines	Includes an isogenic control, isogenic
Isogenic		mutants, and the wild-type patient-
Lines		derived parental line.
SORL1	3 lines	Includes an isogenic control, an isogenic
Isogenic		mutant, and the wild-type patient-
Lines		derived parental line

Table D. Lines from Diverse Participants

Set Name	IUGB IDs	Notes
Hispanic ethnicity	IUGB58.2	Includes a set of two clones from a control* patient
	IUGB58.3	
Asian	IUGB30	Includes two lines from a control* patient
	IUGB33	
Black or African	IUGB410.1	Includes a set of three clones from a control*
American	IUGB410.2	patient
	IUGB410.3	
Native Hawaiian or	IUGB43	One line from a patient with sporadic AD.
Other Pacific		
Islander		

*Control is defined as a patient with no reported diagnosis of Alzheimer's disease or related dementia.

Table E. Study Specific Lines Banked at NCRAD

ADRC Sites	137 lines
ALLFTD	24 lines
LEADS	34 lines
ACT	5 lines
ADNI	42 lines

Detailed Tables

Links to PSEN2 Mutations in Table B.

Set Name	IUGB ID	Amino Acid Change	Notes
PSEN2	IUGB3	N141I	Includes patient-derived
Mutations			lines with pathogenic
	IUGB4	N141I	PSEN2 mutations

Links to PSEN1 Mutations in Table B.

Set Name	IUGB ID	Amino Acid Change	Notes
PSEN1 Mutations	IUGB259	A246E	Includes patient-
	IUGB260	A246E	derived lines with
	IUGB416	H163R	pathogenic PSEN1
	IUGB422	L435F	mutations

Links to Duplicate APP mutations in Table B.

Set Name	IUGB ID	Notes
Duplicate APP	IUGB61.1	1 patient, 3 clones
Mutation	IUGB61.2	containing
	IUGB61.3	patient-serifed
		pathogenic
		duplicate APP
		mutations.
	IUGB62.1	1 patient, 3 clones
	IUGB62.2	containing
	IUGB62.3	patient-serifed
		pathogenic
		duplicate APP
		mutations.

Links to APP Mutations in Table B.

Set Name	IUGB ID	Amino Acid Change	Notes
APP Mutations	IUGB5	V717I	Includes patient-
	IUGB358	V717I	derived lines with
			pathogenic APP
			mutations

Links to C9ORF72 mutations in Table B.

Set Name	IUGB ID	Notes
C9ORF72 Mutations	IUGB19	Includes patient-
	IUGB425	derived lines with
	IUGB355	pathogenic C9ORF72
		mutations

MAPT Isogenic iPSCs (Links to MAPT isogenic lines in Table C)

IUGB ID	Mutation	Amino Acid	Notes
	Status	Change	
IUGB249.1-iso1	Isogenic	S305N	MAPT patient S305N heterozygote line edited
	Mutant		to S305N homozygote.
IUGB249.1-iso3	Isogenic	V300V, S305N	MAPT patient S305N heterozygote line edited
	Mutant		to S305N homozygote with V300V PAM site
			edit.
IUGB249.1-iso5	Isogenic	V300V, N305S	MAPT S305N patient line corrected to
	Control		isogenic control. Includes homozygous PAM
			site V300V edit.
IUGB249.1-iso6	Isogenic	S305N, V300V	Heterozygous MAPT S305N patient line.
	Mutant		Heterozygous V300V mutation in this line is
			the PAM site mutation used for CRISPR
			editing.
IUGB250.1-iso1	Isogenic	V300V, I305S	MAPT patient S305I heterozygous line
	Control		corrected to control, with V300V PAM site
			edit.
IUGB250.1-iso2	Isogenic	13055	MAPT patient S305I heterozygous line
	Control		corrected to control.
IUGB250.1-iso3	Isogenic	13055	MAPT patient S305I heterozygous line
	Control		corrected to control.
IUGB250.1-iso4	Isogenic	V300V, S305I	MAPT patient S305I heterozygote line edited
	Mutant		to \$3051 homozygote, with \$300\$ PAM site
			edit.
IUGB250.1-Iso6	Isogenic	V300V, S305I	MAP1 patient \$3051 heterozygote line edited
	Mutant		to S305I nomozygote, with V300V PAIN site
	lassais	12050	edit.
1008250.1-1507	Control	13055	MAPT patient 53051 heterozygous line
IUGB2/19.1	Patient-	\$305N	Linedited MAPT patient \$305N beterozygote
1008249.1	Derived	330314	offedited MAPT patient 3505N fielerozygote.
	Mutation		
IIIGB249.2	Patient-	\$305N	Linedited MAPT natient \$305N beterozygote
1000245.2	Derived	550511	
	Mutation		
IUGB249.3	Patient-	\$305N	Unedited MAPT patient \$305N heterozygote
1000215.5	Derived	550511	
	Mutation		
IUGB249.1.2	Patient-	\$305N	MAPT patient \$305N heterozygote. Unedited
	Derived		clonal control for CRISPR editing.
	Mutation		
IUGB249.1.1	Patient-	S305N	MAPT patient S305N heterozygote. Unedited
	Derived		clonal control for CRISPR editing.
	Mutation		
IUGB250.1	Patient-	S305I	Unedited MAPT patient S305I heterozygote.
	Derived		
	Mutation		

(Continued)

IUGB ID	Mutation Status	Amino Acid Change	Notes
IUGB250.2	Patient-	S305I	Unedited MAPT patient S305I heterozygote.
	Derived		
	Mutation		
IUGB250.3	Patient-	S305I	Unedited MAPT patient S305I heterozygote.
	Derived		
	Mutation		
IUGB250.1.1	Patient-	S305I	MAPT patient S305I heterozygote. Unedited
	Derived		clonal control for CRISPR editing.
	Mutation		
IUGB250.1.2	Patient-	S305I	MAPT patient S305I heterozygote. Unedited
	Derived		clonal control for CRISPR editing.
	Mutation		
IUGB250.1.3	Patient-	S305I	MAPT patient S305I heterozygote. Unedited
	Derived		clonal control for CRISPR editing.
	Mutation		

APP Isogenic Lines

(Links to APP isogenic lines in Table C)

Sets	IUGB ID	Mutation Status	Amino Acid Change	Notes
Parent line	IUGB55.1	Control	N/A	
Isogenic control/ isogenic mutant set	IUGB55.1- iso1	Isogenic Control	N/A	It is an isogenic line that went through CRISPR editing of IUGB 55.1 but failed. It is WT/WT for the APP mutation
	IUGB55.1- iso2	lsogenic Mutant	F691A/E693A	
Isogenic mutant can be paired with the parent cell line to create a set.	IUGB55.1- iso9	Isogenic Mutant	A673T	This is an isogenic line derived from CRISPR-editing of IUGB 55.1 to introduce the Icelandic genetic variant in the APP gene: APP A673T.
Isogenic	IUGB55.1- iso10	Isogenic Mutant	АРР КО	
mutants can be paired with the parent cell line to create a set.	IUGB55.1- iso11	Isogenic Mutant	АРР КО	
This set contains several	IUGB55.1- iso12	Isogenic Control	N/A	It is an isogenic line derived from IUGB 55.1 that went through CRISPR editing process to introduce an APPswe mutation which failed. It is a WT/WT for the APP gene
isogenic mutants,	IUGB55.1- iso13	Isogenic Mutant	KM670/671NL	Heterozygous APPSwe/WT. CRISPR- control line is IUGB 55.1 [iso 12].
and an isogenic control.	IUGB55.1- iso14	lsogenic Mutant	KM670/671NL	Heterozygous APPSwe/WT. CRISPR- control line is IUGB 55.1 [iso 12] control line is IUGB 55.1 [iso 12].
	IUGB55.1- iso15	lsogenic Mutant	KM670/671NL	Homozygous APPSwe/swe. CRISPR- control line is IUGB 55.1 [iso 12].
	IUGB55.1- iso16	lsogenic Mutant	KM670/671NL	Homozygous APPSwe/swe. CRISPR- control line is IUGB 55.1 [iso 12].
Isogenic mutants can	IUGB55.1- iso17	Isogenic Mutant	V717F	Heterozygous APP mutation- V717F/WT.
be paired with the parent cell line to create a set.	IUGB55.1- iso18	Isogenic Mutant	V717F	Homozygous APP mutation- V717F/V717F.

PSEN1 Isogenic Lines

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IUGB ID	Mutation Status	Amino Acid Change	Notes			
IUGB55.1 Control		N/A	Parent cell line			
IUGB55.1-iso3	Isogenic Mutant	S290C;T291_S319del				
IUGB55.1-iso4	Isogenic Mutant	S290C;T291_S319del				
IUGB55.1-iso5	Isogenic Mutant	S290C;T291_S319del				
IUGB55.1-iso6	Isogenic Mutant	S290C;T291_S319del				
IUGB55.1-iso8	Isogenic Control	N/A	This is a line derived from			
			IUGB 55.1 that went through			
			the TALEN editing process to			
			introduce the PSEN1 deltaE9			
			mutation but it failed. This			
			line is PSEN1 WT/WT.			

(Links to PSEN1 isogenic lines in Table C)

SORL1 Isogenic iPSCs

(Links to SORL1 isogenic lines in Table C)

IUGB ID	Mutation Status	Amino Acid	
		Change	
IUGB55.3-iso2	Isogenic Mutant	premature stop in	
		SORL1 gene	
IUGB55.3	Control	N/A	

Cell Lines from Diverse Individuals

(Links to Lines from Diverse Participants in Table D)

Ethnicity/ Race	IUGB ID	Diagnosis	Notes	
Native Hawaiian or Other Pacific Islander	IUGB43	Case	One line from a patient with sporadic AD.	
Asian	IUGB30	Control		
	IUGB33	Control		
Hispanic ethnicity	IUGB58.2	Control	One patient, two clones.	
	IUGB58.3	Control		
Black or African	IUGB410.1	Control	One patient, three clones.	
	IUGB410.2	Control		
American	IUGB410.3	Control		