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In vivo Services

Transgenic Animal Models

Indication	Strain Name	Species	Mutation	
			Construct	Promoter
AD human APP/Aβ	APP_{SL}	Mouse	human APP751SL-h London (717) & Swedish (670/671) mutation	murine Thy-1
	5xFAD		human APPSwFILon, PSEN1 * M146L * L286V 6799Vas/J	murine Thy-1
	Tg2576		human APP695 with double mutations at KM670/671NL	hamster prion protein gene
AD human TAU	TMHT10 hTau (V337M, R406W)	Mouse	human Tau441 bearing the missense mutation V337M and R406W	murine Thy-1
	genomic Tau		6 human Tau isoforms, no endogenous Tau	human Tau
	PS19		T34 isoform; 4 microtubule binding repeats (1N4R) of tau with P301S mutation	murine Prion
AD crossbreds	APP_{SL} x hQC	Mouse	human APP751SL-h London (717) & Swedish (670/671) mutations & hQC	murine Thy-1
	5xFAD x hQC		human APPSwFILon, PSEN1 * M146L * L286V 6799Vas/J & hQC	murine Thy-1
PD	D-Line	Mouse	wild type human α-synuclein	PDGF-β
	Line-61		wild type human α-synuclein	murine Thy-1
	A53T-Sud		A53T mutant human α-synuclein	murine Thy-1
HD	R6/2	Mouse	human Huntingtin with 110-125 CAG repeat expansions	-
	zQ175		murine exon 1 of Htt replaced by human Htt exon 1 (180-220 CAG repeats)	murine Htt
	BACHD	Rat	human Huntingtin with CAG repeat expansions	rat Htt
ALS	(SOD1-G93A)1Gur/J	Mouse	human SOD1 with G93A mutation-high copy number	murine Thy-1
	(SOD1-G93A)1Gur/J	Mouse	human SOD1 with G93A mutation-low copy number	murine Thy-1
ALS-FTLD	TDP-43	Mouse	human wild type Tar DNA Binding Protein-43	murine Thy-1
Niemann-Pick disease type C1	$NPC1^{-/-}$	Mouse	Knockout	-
Gaucher disease	4L/PS-NA	Mouse	homozygous $Gba^{V394L/V394L}$ mutation; prosaposin knockout ($PS^{-/-}$); homozygous prosaposin transgene (NA)	-
	GBA D409V KI		targeted mutation resulting in murine D427V β-glucosidase (Gba) protein, corresponding to human D409V mutation; loxP sites flank exons 6 to 8	-
Pompe disease	6^{neo}	Mouse	α-glucosidase (Gaa) knockout	-
Autism	BTBR T + tf/J	Mouse	Inbred strain	-
Autoinflammatory diseases (CAPS)	$Nlrp3^{350VneoR}$	Mouse	point mutation in exon 3 of cryopyrin (Nlrp3) gene, resulting in A350V missense mutation, corresponding to human amino acid 352	-
Alport	$Col4a3^{-/-}$	Mouse	knockout	-

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Discovery

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