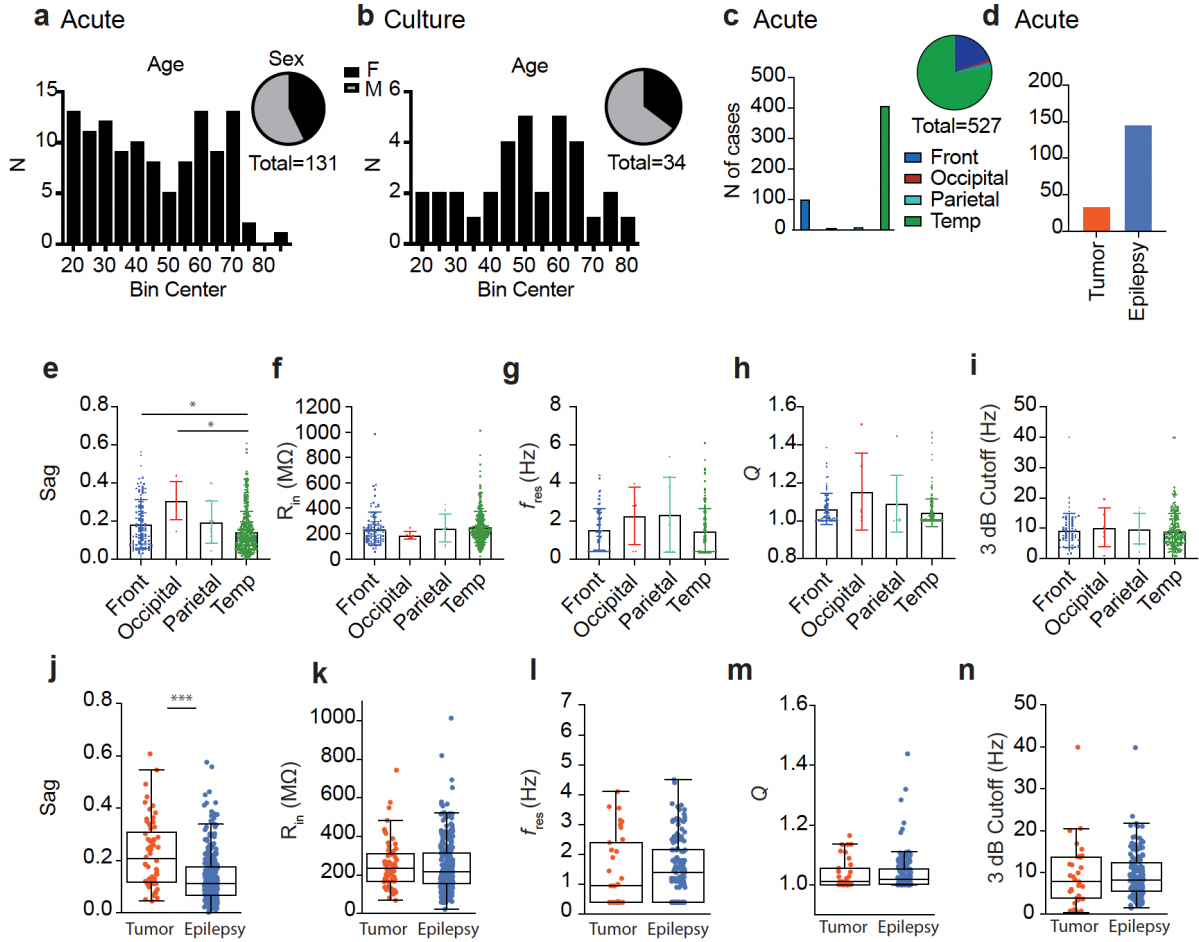




Supplementary Fig. 1 | Human donor meta-data

a-d Age distribution histograms for acute (**a**) and cultured (**b**) human datasets.

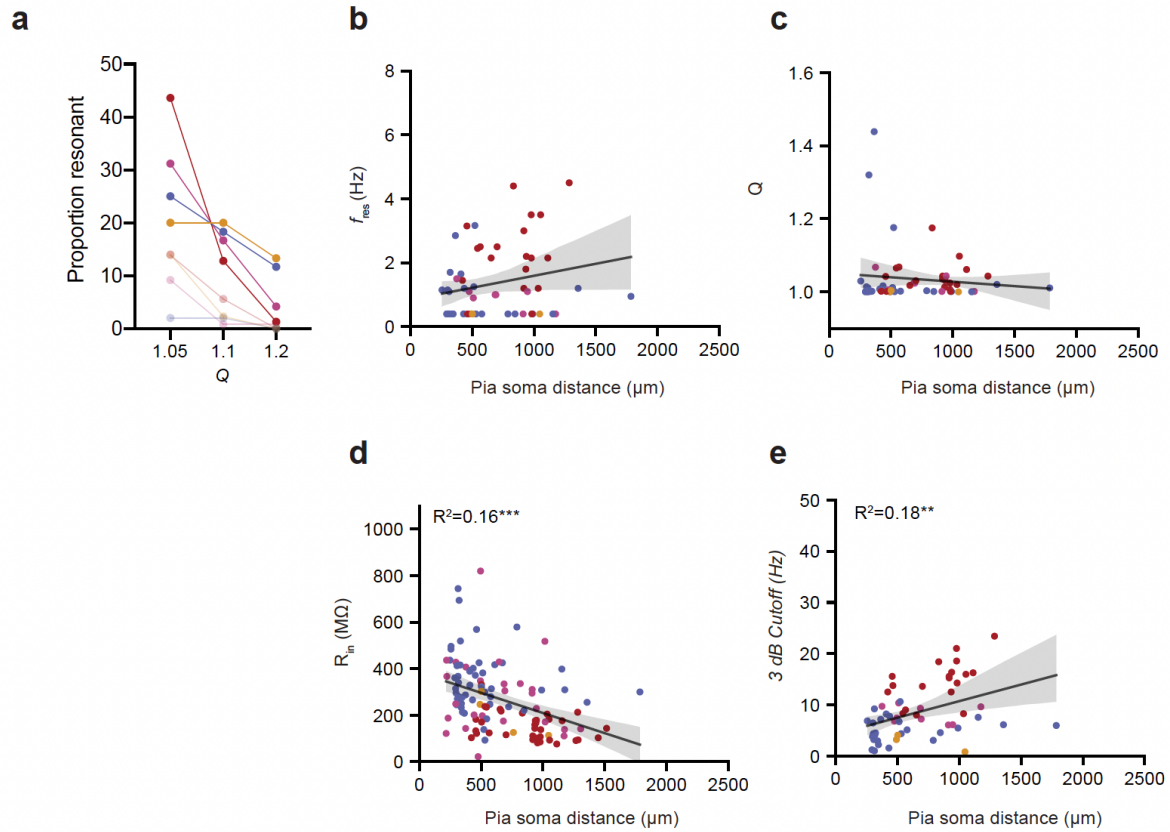
Insets: Proportions of male and female donors. (**c**) Histogram and pie chart depicting the number of specimens across brain regions. (**d**) Number of cases by pathology.

e-i Kruskal-Wallis tests were used to compare sag, input resistance (R_{in}), peak resonance frequency (f_{res}), strength (Q), and 3 dB cutoff frequency across brain regions (frontal, occipital, parietal, and temporal). There was a main effect of brain region (KW = 19.53, $p < 0.001$). Follow-up comparisons showed that interneurons from temporal vs. frontal (KW = 490.06, $p = 0.022$) as well as temporal vs. occipital (KW = 195.49, $p = 0.011$) areas differed in sag ratio (**e**). There was no effect of input

resistance (KW = 3.72, $p = .293$) (f), f_{res} (KW = 5.91, $p = .116$) (g), Q (KW = 5.90, $p = .117$) (h) or 3 dB cutoff frequency (KW = 1.34, $p = .719$) (i).

j-n Mann-Whitney U tests were used to compare sag, input resistance (R_{in}), peak resonance frequency (f_{res}), strength (Q), and 3 dB cutoff frequency across pathology types (tumor, epilepsy). Sag ratio was significantly lower in specimens obtained from epilepsy patients (U = 4845, $p < 0.001$) (j). Input resistance (U = 8207, $p = .780$) (k), f_{res} (U = 2757, $p = .218$) (l), Q (U = 2543, $p = .664$) (m), and 3dB cutoff frequency (U = 2611, $p = .493$) did not differ between pathologies.

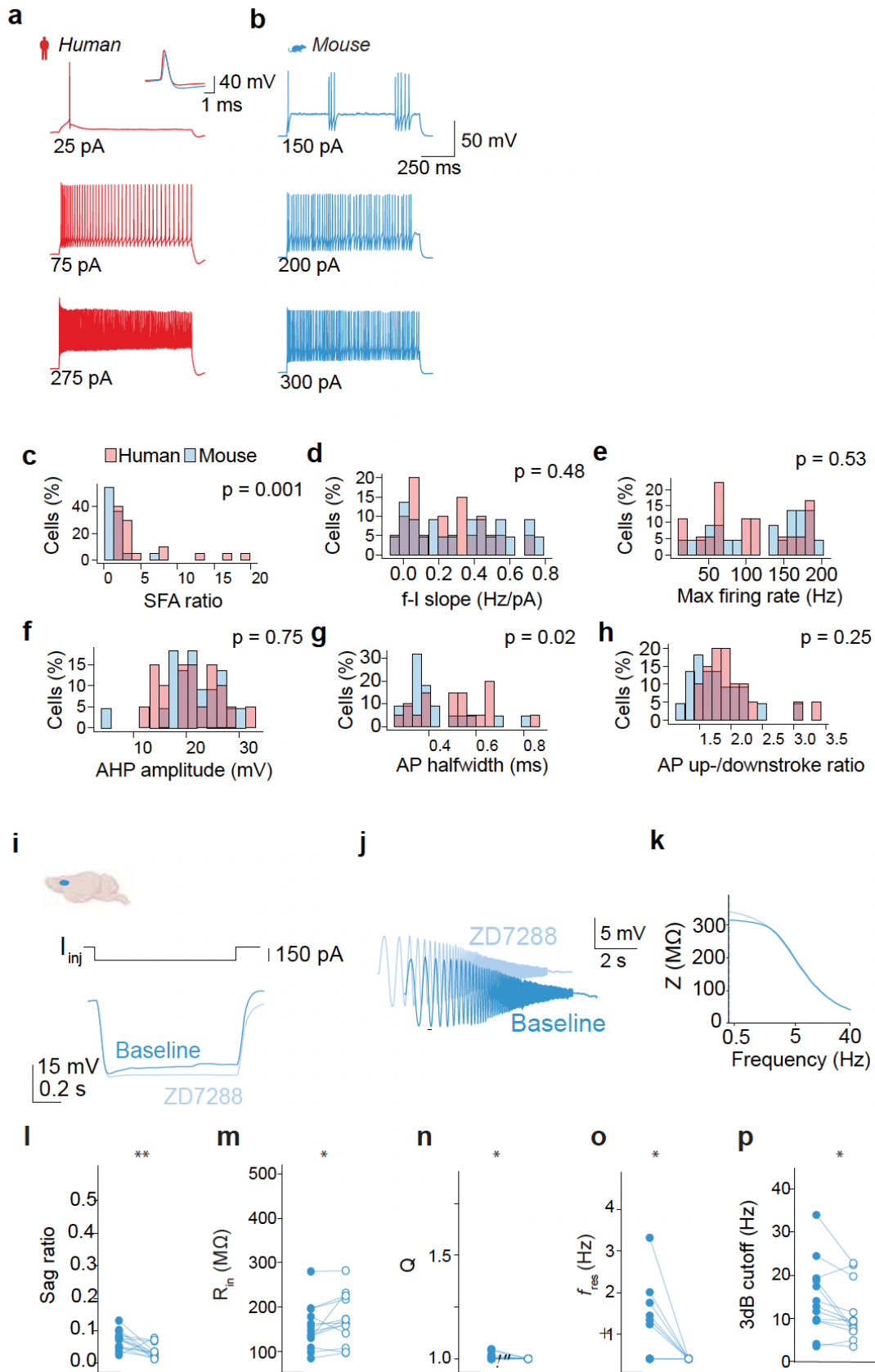
* $p < 0.05$, *** $p < 0.001$



Supplementary Fig. 2

a Proportion of resonant cells by resonance criteria with varying strength requirements for all human (dark lines) and mouse cortical interneurons (faded lines).

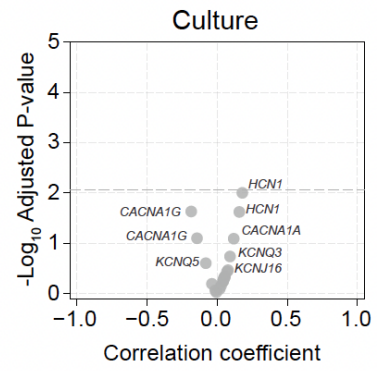
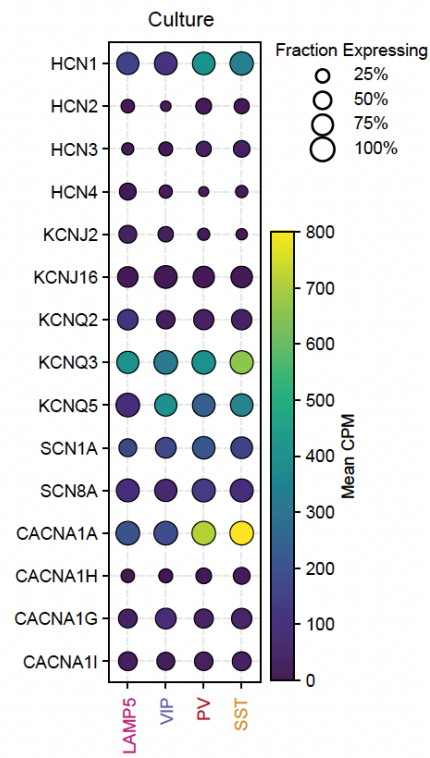
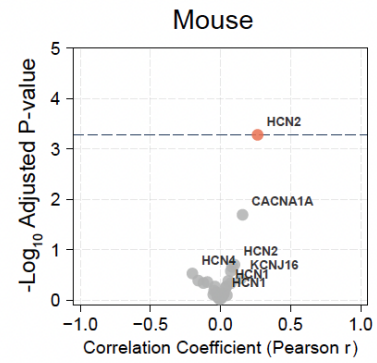
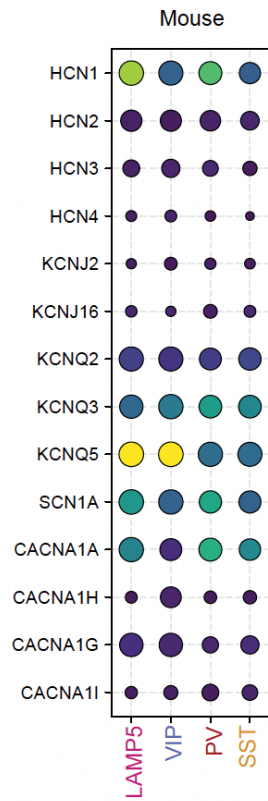
b-e Pia-soma distance plotted against passive ($n = 114$; from 42 donors) and resonance-related membrane properties ($n = 57$; from 23 donors) of interest in human L2/L3 acutely recorded interneurons. (Linear mixed-effects (LME) models (Fixed: pia-soma distance. Random: donor).



Supplementary Fig. 3 | Distributions of spike firing parameters and their correlation with resonance in human and mouse cortical interneurons.

(a-b) Representative firing responses of human (a, red) and mouse (b, blue) cortical interneurons at rheobase (inset: first AP at rheobase), 50 pA above rheobase, and the current step that evoked maximum firing frequency. (c-g) Distributions of firing properties across human and mouse cortical interneuron samples (human, $n = 20$, mouse, $n = 22$; maximum firing frequency: human, $n = 18$, mouse, $n = 20$), statistically compared using two-sample Kolmogorov–Smirnov tests. Histograms show the percentage of cells within each parameter bin. (f); * denotes $p = 0.04$.

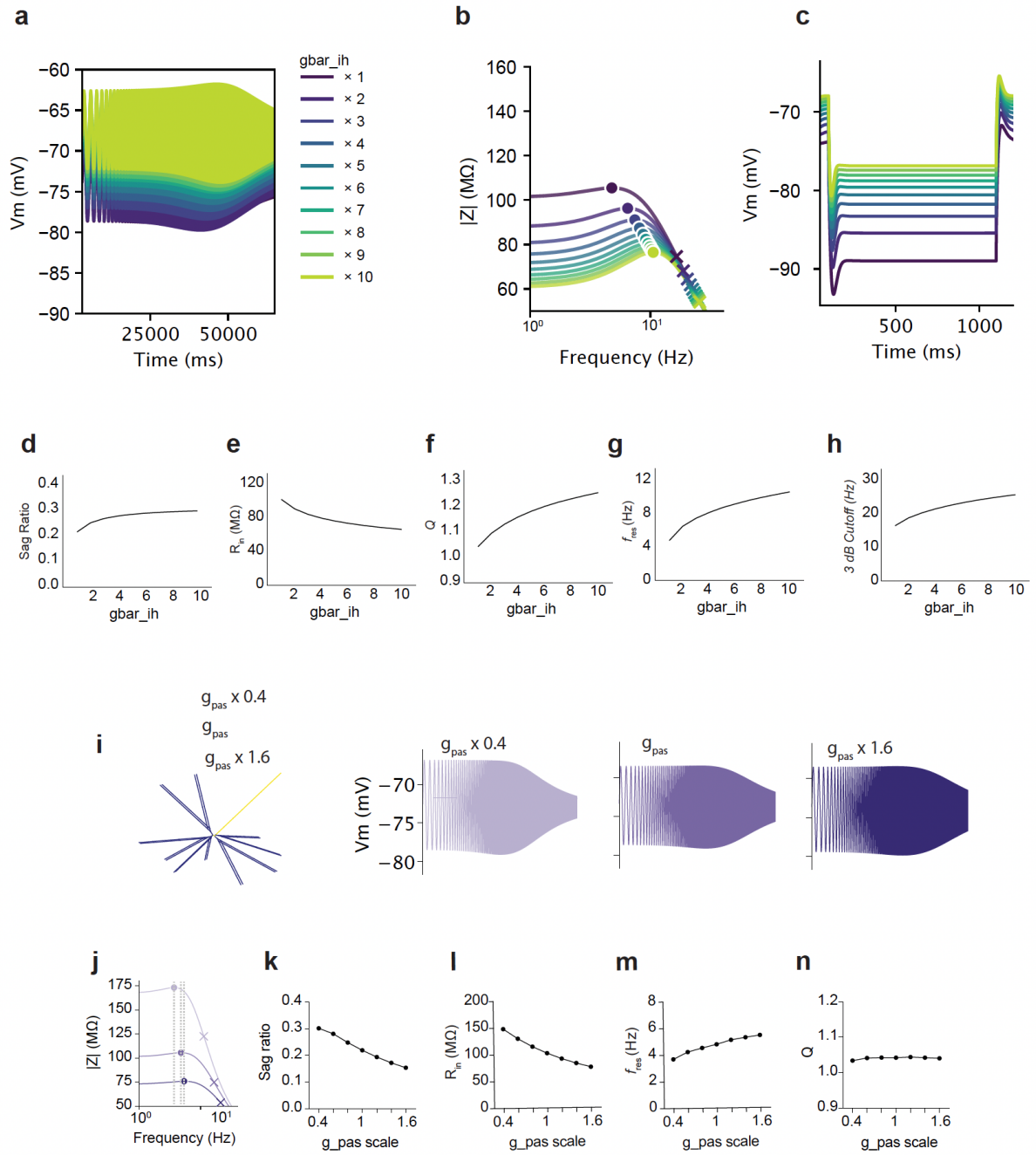
(i) Representative voltage responses to -150 -pA current injection at baseline (dark colour) and after ZD7288 wash-in (light colour). (j-k) Representative voltage responses to chirp current injection (j) and corresponding impedance profiles (k) at baseline and after ZD7288 wash-in. (l, m) ZD7288 reduced sag ratio (l) and increased input resistance (m) in mouse interneurons, with larger ZD7288-induced changes in human interneurons. (n-p) ZD7288 reduced resonance parameters in mouse interneurons. Filled and open circles indicate baseline and post-ZD7288 measurements, respectively; lines connect measurements from the same cell. Within-species comparisons used two-sided Wilcoxon signed-rank tests; drug-induced changes ($\Delta = \text{post-ZD7288} - \text{baseline}$) were compared between species using two-sided Wilcoxon rank-sum tests. * $p < 0.05$, $p < 0.01$, *** $p < 0.001$, ns = not significant. See Supplementary Table 1 for statistical details.

a**b**

Supplementary Fig. 4 | Resonance-related gene enrichment in cultured human and mouse cortical interneurons

a Patch-seq expression data of resonance-related genes in human cortical interneurons represented as dot plots stratified by subclass: LAMP5 ($N = 31$), VIP ($N = 46$), PV ($N = 271$), SST ($N = 148$). (Left) The dot color and size represent mean CPM values and fraction of expressing cells per subclass, respectively. (Right) Gene expression (CPM > 1) across cultured interneurons correlated against resonance parameters (Q and f_{res}). Pearson correlation coefficients are depicted against $-\log_{10}$ FDR-adjusted significance value per gene. Dashed line represents significance threshold.

b (Left) Mean counts per million (CPM > 1) values displayed for resonance-related genes by subclass in mouse interneurons. (Right) Gene expression (CPM > 1) across cultured interneurons correlated against resonance parameters (Q and f_{res}). Pearson correlation coefficients are depicted against $-\log_{10}$ FDR-adjusted significance value per gene. Dashed line represents significance threshold.

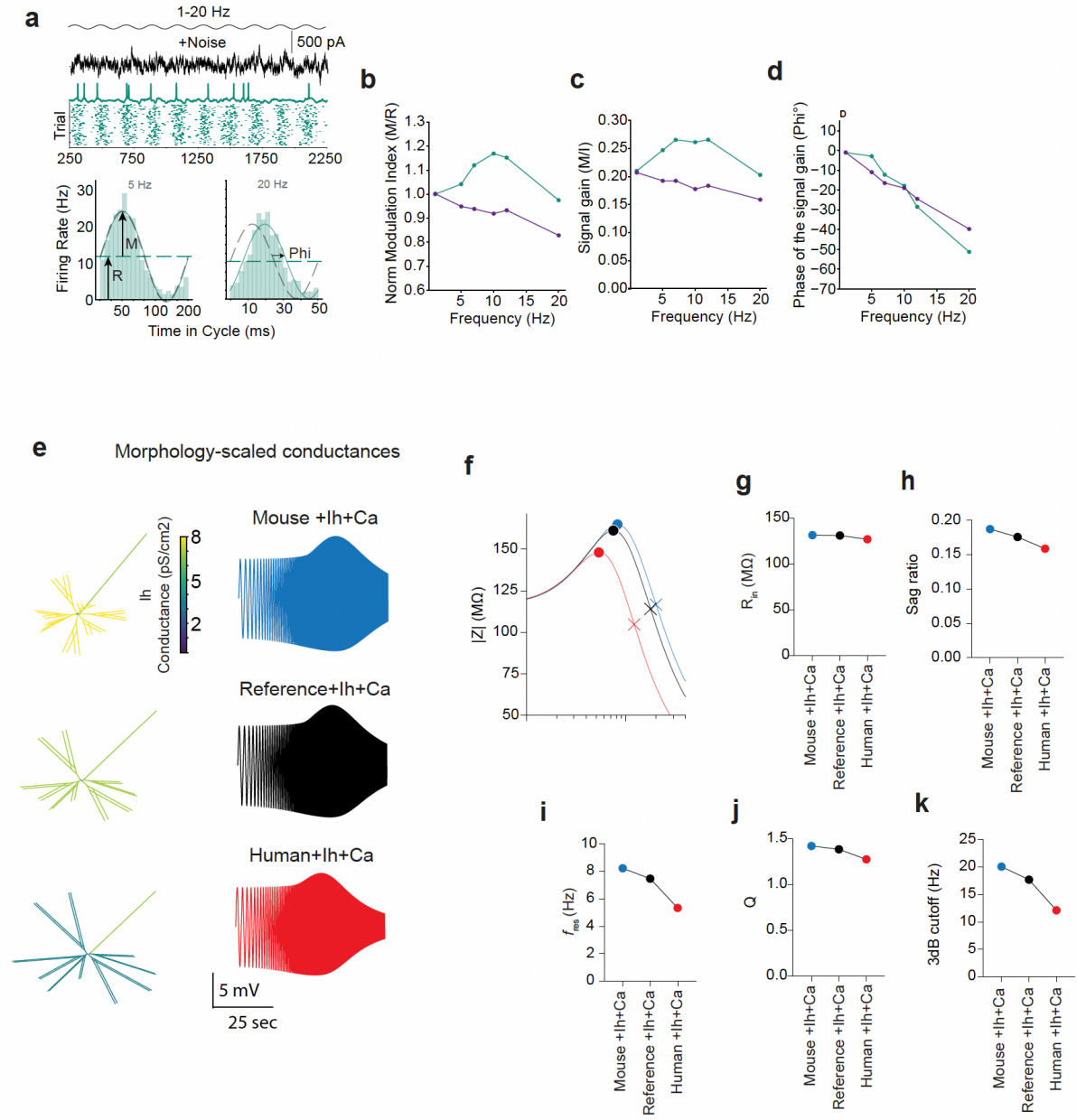


Supplementary fig. 5 | Passive conductance manipulation

a-h Impact of maximal hyperpolarization-activated cyclic nucleotide-gated current (I_h) conductance scaling (1x to 10x). (a) Voltage responses and (b) corresponding impedance profiles in response to chirp current injection. (c) Voltage traces in response to hyperpolarizing current injection. Effect of I_h conductance manipulation

on sag ratio (d), input resistance (R_{in}) (e), resonance strength (Q) (f), peak resonance frequency (f_{res}) (g), and 3 dB cutoff frequency (h).

i-n. Impact of maximal passive conductance (g_{pas}) scaling (0.4x to 1.6x). (i) Voltage responses and (j) corresponding impedance profiles in response to chirp current injection. Effect of g_{pas} manipulation on sag ratio (k), R_{in} (l), f_{res} (m), and Q (n).



Supplementary Fig. 6 | Human morphology is associated with sharper frequency selectivity

a-d. Biased noisy current was manipulated to normalize baseline excitability. Weak sinusoidal currents (50 pA) of varying frequencies (1–20 Hz) were injected on top of the noisy input. Peristimulus histograms depict trial-averaged firing rates. Modulation index (M) and baseline excitability (R) were derived from these histograms, with the delay between stimulus peak and response peak defined as phase (Phi) (a). The

Supplementary Table 1. Donor information

Donor	Area	Species	Dataset	Structure	Disease category	Sex	Age	Hemisphere	Lobe
H16.03.001	MTG	Human	Chartrand	MTG	Epilepsy	M			
H16.03.006	MTG	Human	Chartrand	MTG	Epilepsy	F			
H16.03.008	MTG	Human	Chartrand	MTG	Epilepsy	M		right	
H16.03.012	TemL	Human	Chartrand	TemL	Epilepsy	M		right	
H16.06.010	ITG	Human	Chartrand	ITG	Epilepsy	M			
H16.06.011	MTG	Human	Chartrand	MTG	Epilepsy	F		right	
H16.06.012	MFG	Human	Chartrand	MFG	Tumor	M	83 yrs		
H17.03.002	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	61 yrs	right	TemL
H17.03.005	MTG	Human	Chartrand	MTG	Epilepsy	M		right	TemL
H17.03.006	STG	Human	AcuteLDPublished	STG	epilepsy	F	67 yrs	left	TemL
H17.03.007	MTG	Human	Chartrand	MTG	Epilepsy	F		right	TemL
H17.03.008	STG	Human	AcuteLDPublished	MTG	epilepsy	F	60 yrs	right	TemL
H17.03.009	MTG	Human	Chartrand	MTG	Epilepsy	M		right	
H17.03.010	MTG	Human	AcuteLDPublished	MTG	epilepsy	F	38 yrs	left	TemL
H17.03.013	SFG	Human	AcuteLDPublished	SFG	epilepsy	F	41 yrs	left	FroL
H17.03.014	TemL	Human	AcuteLDPublished	TemL	epilepsy	M	20 yrs	left	TemL
H17.03.015	MTG	Human	AcuteLDPublished	MTG	tumor	M	72 yrs		TemL
H17.03.016	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	36 yrs	right	TemL
H17.06.003	MTG	Human	AcuteLDPublished	MTG	epilepsy	F	23 yrs		TemL
H17.06.006	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	35 yrs	left	TemL
H17.06.007	MFG	Human	Chartrand	MFG	Tumor	F		right	
H17.06.012	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	23 yrs	right	TemL
H17.06.013	PLP	Human	AcuteLDPublished	PLP	epilepsy	M	29 yrs	right	TemL
H17.06.015	TemL	Human	AcuteLDPublished	TemL	epilepsy	M	19 yrs	right	TemL
H17.26.002	TemL	Human	AcuteLDPublished	TemL	tumor	F	58 yrs		TemL
H17.26.003	MTG	Human	AcuteLDPublished	MTG	tumor	M	25 yrs	right	TemL
H17.26.005	IFGtr	Human	AcuteLDPublished	IFGtr	tumor	F	27 yrs	left	FroL
H18.03.002	LORg	Human	AcuteLDPublished	LORg	epilepsy	F	48 yrs	left	FroL
H18.03.003		Human	AcuteLDPublished	CeG	tumor	M	21 yrs	right	
H18.03.004	ITG	Human	AcuteLDPublished	ITG	epilepsy	M	28 yrs	left	TemL
H18.03.005	STG	Human	AcuteLDPublished	STG	epilepsy	F	49 yrs	right	TemL
H18.03.006	SPL	Human	AcuteLDPublished	SPL	epilepsy	F	24 yrs	left	ParL
H18.03.008	MTG	Human	AcuteLDPublished	MTG	epilepsy	F	19 yrs	left	TemL
H18.03.009	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	19 yrs	right	TemL

H18.03.010	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	31 yrs	right	TemL
H18.03.011	PRG	Human	AcuteLDPublished	PRG	epilepsy	F	31 yrs		TemL
H18.03.012	PRG	Human	AcuteLDPublished	PRG	epilepsy	M	22 yrs	right	TemL
H18.03.313	STG	Human	AcuteLDPublished	STG	epilepsy	F	23 yrs	right	TemL
H18.03.314	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	31 yrs	right	TemL
H18.03.315	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	40 yrs		TemL
H18.03.316	STG	Human	AcuteLDPublished	STG	epilepsy	F	45 yrs	left	TemL
H18.03.317	TemL	Human	AcuteLDPublished	TemL	epilepsy	M	51 yrs	right	TemL
H18.03.318	MTG	Human	AcuteLDPublished	MTG	epilepsy	F	60 yrs		TemL
H18.03.319	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	36 yrs	right	TemL
H18.03.320	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	34 yrs		TemL
H18.03.322	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	38 yrs	left	TemL
H18.03.323	SFG	Human	AcuteLDPublished	SFG	epilepsy	M	24 yrs	right	FroL
H18.06.001	SFG	Human	Chartrand	SFG	Tumor	M	69 yrs	left	
H18.06.004	MTG	Human	Chartrand	MTG	Tumor	F	69 yrs	right	
H18.06.005	MTG	Human	AcuteLDPublished	MTG	tumor	F	56 yrs		TemL
H18.06.358	MFG	Human	AcuteLDPublished	MFG	tumor	F	38 yrs	right	FroL
H18.06.362	SFG	Human	AcuteLDPublished	SFG	tumor	F	63 yrs		FroL
H18.06.363	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	22 yrs	right	TemL
H18.06.365	MFG	Human	AcuteLDPublished	MFG	tumor	F	31 yrs		FroL
H18.06.366	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	38 yrs	right	TemL
H18.06.367	MTG	Human	AcuteLDPublished	MTG	tumor	M	58 yrs	right	TemL
H18.06.368	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	59 yrs	left	TemL
H18.06.371	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	28 yrs	left	TemL
H18.26.403	MFG	Human	AcuteLDPublished	MFG	tumor	F	68 yrs	right	FroL
H18.26.404	MTG	Human	AcuteLDPublished	MTG	tumor	M	68 yrs		TemL
H18.28.001		Human	Chartrand					left	
H18.28.021	FroL	Human	Chartrand	FroL	hydrocephalus	F	62 yrs	right	FroL
H18.28.022	TemL	Human	Chartrand	TemL	tumor	F	46 yrs	right	TemL
H18.28.025	SOG	Human	Chartrand	SOG	Tumor	M	21 yrs	right	
H18.29.124	ITG	Human	Chartrand	ITG	epilepsy	M	44 yrs	right	TemL
H18.29.125	AnG	Human	Chartrand	AnG	epilepsy	M	28 yrs	left	ParL
H18.29.135	SFG	Human	Chartrand	SFG	tumor	F	55 yrs	right	FroL

H18.29.136	SFG	Human	Chartrand	SFG	tumor	M	62 yrs	right	FroL
H18.29.138	MTG	Human	Chartrand	MTG				left	
H19.03.301	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	46 yrs	left	TemL
H19.03.302	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	36 yrs	right	TemL
H19.03.304	TemL	Human	Chartrand	TemL	Epilepsy	M	36 yrs	right	
H19.03.305	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	42 yrs		TemL
H19.03.306	ITG	Human	AcuteLDPublished	ITG	epilepsy	F	21 yrs	left	TemL
H19.03.308	ITG	Human	AcuteLDPublished	ITG	epilepsy	M	47 yrs	left	TemL
H19.03.309	SFG	Human	AcuteLDPublished	SFG	tumor	F	61 yrs	right	FroL
H19.03.310	SFG	Human	AcuteLDPublished	SFG	tumor	M	28 yrs	right	FroL
H19.03.311	TemL	Human	AcuteLDPublished	TemL	epilepsy	F	41 yrs		TemL
H19.03.312	MFG	Human	AcuteLDPublished	MFG	epilepsy	M	33 yrs	left	FroL
H19.03.313	TemL	Human	Chartrand	TemL	Epilepsy	M	44 yrs	left	
H19.03.314	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	33 yrs		TemL
H19.03.315	TemL	Human	AcuteLDPublished	TemL	epilepsy	M	22 yrs	left	TemL
H19.03.316	PaCG	Human	AcuteLDPublished	PaCG	epilepsy	F	25 yrs	right	FroL
H19.03.317	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	54 yrs	right	TemL
H19.03.319	ITG	Human	AcuteLDPublished	ITG	epilepsy	M		right	TemL
H19.03.320	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	22 yrs	right	TemL
H19.03.321	MTG	Human	Chartrand	MTG	epilepsy	M	41 yrs	right	TemL
H19.03.323	MTG	Human	AcuteLDPublished	MTG	epilepsy	F	33 yrs	left	TemL
H19.06.351	MTG	Human	AcuteLDPublished	MTG	tumor	F	22 yrs	right	TemL
H19.06.353	MFG	Human	AcuteLDPublished	MFG	Tumor status - primary	F	73 yrs		FroL
H19.06.356	TemL	Human	AcuteLDPublished	TemL	epilepsy	M	62 yrs	left	TemL
H19.06.363	OccL	Human	Chartrand	OccL	tumor	F	58 yrs	right	OccL
H19.28.004	MTG	Human	Chartrand	MTG	tumor	F	66 yrs	right	
H19.28.005	MTG	Human	Chartrand	MTG	tumor	M	73 yrs	left	TemL
H19.28.007	IOG	Human	Chartrand						
H19.28.009	IOG	Human	Chartrand	IOG	hydrocephalus	M	51 yrs	right	OccL
H19.28.014	FroL	Human	Chartrand	FroL	tumor	M	56 yrs	left	
H19.28.015	TemL	Human	Chartrand	TemL	tumor	F	56 yrs	left	
H19.28.018	FroL	Human	Chartrand	FroL	tumor	M	68 yrs	left	
H19.28.025	FroL	Human	Chartrand	FroL	tumor	M	30 yrs	left	
H19.29.142	MFG	Human	Chartrand	MFG	tumor	F	65 yrs	left	

H19.29.144	MTG	Human	Chartrand	MTG	tumor	F	65 yrs	right	
H19.29.146		Human	Chartrand	CeG	tumor	M	56 yrs		
H19.29.147	TemL	Human	Chartrand	TemL	tumor		70 yrs	right	
H19.29.149	MTG	Human	Chartrand	MTG	tumor		66 yrs	right	
H19.29.160	OccL	Human	Chartrand	OccL	tumor		70 yrs		
H19.29.162	SFG	Human	Chartrand	SFG	tumor			right	
H20.03.301	MTG	Human	Chartrand	MTG	epilepsy	F	56 yrs	right	TemL
H20.03.302	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	28 yrs	right	TemL
H20.03.303	MTG	Human	AcuteLDPublished	MTG	epilepsy	F	27 yrs		TemL
H20.06.351	MTG	Human	AcuteLDPublished	MTG	epilepsy	M	59 yrs	right	TemL
H20.28.001		Human	Chartrand		hydrocephalus	F	69 yrs	right	
H20.28.002	FroL	Human	Chartrand	FroL	tumor	F	66 yrs	right	FroL
H20.28.006	TemL	Human	Chartrand	TemL	tumor	F	58 yrs	left	TemL
H20.28.008	FroL	Human	Chartrand	FroL	tumor	F	47 yrs	right	FroL
H20.28.009	TemL	Human	Chartrand	TemL	tumor	F	63 yrs	right	TemL
H20.28.012	ParL	Human	Chartrand	ParL	tumor	F		right	ParL
H20.28.019	FroL	Human	Chartrand	FroL	tumor	M		right	FroL
H20.28.022	FroL	Human	Chartrand	FroL	tumor	F		right	FroL
H20.28.023	ParL	Human	Chartrand	ParL	hydrocephalus	M		right	ParL
H20.28.027	TemL	Human	Chartrand	TemL	tumor	F		left	TemL
H20.28.028	FroL	Human	Chartrand	FroL	tumor	F		right	FroL
H20.28.031	TemL	Human	Chartrand	TemL	tumor	M		right	TemL
H20.28.039	TemL	Human	Chartrand	TemL	tumor	M		left	TemL
H20.29.174	TemL	Human	Chartrand	TemL	epilepsy	M	32 yrs		TemL
H20.29.177		Human	Chartrand						
H20.29.181	FroL	Human	Chartrand	FroL	epilepsy	M	26 yrs	right	FroL
H20.29.182	SFG	Human	Chartrand	SFG				left	
H20.29.183		Human	Chartrand						
H20.29.186	TemL	Human	Chartrand	TemL				left	
H21.03.305	TemL	Human	AcuteLDPublished	TemL	epilepsy	M	19 yrs		TemL
H21.03.306	MTG	Human	Chartrand	MTG	Epilepsy	M		left	
H21.03.309	TemL	Human	Chartrand	TemL	Epilepsy	F		left	
H21.03.310	TemL	Human	Chartrand	TemL	Epilepsy	F		left	
H21.03.315	TemL	Human	Chartrand	TemL	Epilepsy	M	25 yrs	right	
H21.03.316	TemL	Human	Chartrand						
H21.06.353		Human	Chartrand	CeG	tumor	F	51 yrs		
H21.28.006	SFG	Human	Chartrand	SFG	tumor	F	70 yrs		
H21.28.013	TemL	Human	Chartrand	TemL	tumor	M	56 yrs		
H21.28.019		Human	Chartrand	CeG	tumor	M	63 yrs		
H21.28.022		Human	Chartrand	CeG	tumor	F	72 yrs		
H21.28.034		Human	Chartrand						
H21.28.041		Human	Chartrand						
H21.29.190	MTG	Human	Chartrand	MTG	tumor		68 yrs	right	

H21.29.191	SFG	Human	Chartrand	SFG	tumor		70 yrs	right	
H21.29.194	SPL	Human	Chartrand	SPL				right	
H21.29.197	MFG	Human	Chartrand	MFG				left	
H21.29.199		Human	Chartrand						
H21.29.200		Human	Chartrand						
H21.29.201		Human	Chartrand	IFG	tumor	M	45 yrs		
H21.29.203		Human	Chartrand						
H21.29.205		Human	Chartrand						
H21.29.206		Human	Chartrand						
H21.29.207	LORg	Human	Chartrand	LORg					
H22.03.305	TCx_L_L5	Human	NewLD						
H22.26.404		Human	Chartrand	CeG	tumor	M	42 yrs		
H22.29.210		Human	Chartrand						
H22.29.211		Human	Chartrand						
H23.03.302	TCx_L_L5	Human	NewLD						
H23.03.307	TCx_L_L4	Human	NewLD						
H23.03.308	TCx_L_L6	Human	NewLD						
H23.03.309	TCx_L_L6	Human	NewLD						
H23.26.405	TCx_L_L5	Human	NewLD						
H24.03.001	TCx_L_L3	Human	NewLD						
H24.06.352	TCx_L_L6	Human	NewLD						
H24.06.353	TCx_L_L4	Human	NewLD						
H24.26.402	FCx_L_L5	Human	NewLD						
H24.26.408	FCx_L_L6	Human	NewLD						
H25.03.302	TCx_L_L5	Human	NewLD						
H25.03.303	TCx_L_L5	Human	NewLD						
H18.06.364		Human	PublishedLD_Cultured	FroL	tumor				FroL
h19.03.002		Human	PublishedLD_Cultured	MTG	epilepsy				TemL
H19.03.004		Human	PublishedLD_Cultured	TemL	epilepsy				TemL
H19.03.006		Human	PublishedLD_Cultured	ITG	epilepsy	F	21 yrs		TemL
H19.03.307		Human	PublishedLD_Cultured	SFG	tumor	F	61 yrs		FroL
H19.03.318		Human	PublishedLD_Cultured	MTG	epilepsy	F	45 yrs		TemL
H19.06.352		Human	PublishedLD_Cultured	MTG	cavernoma	M	26 yrs		TemL
H19.06.355		Human	PublishedLD_Cultured	MTG	tumor	M	50 yrs		TemL
H19.06.360		Human	PublishedLD_Cultured	FroL	tumor	F	44 yrs		FroL
H19.06.361		Human	PublishedLD_Cultured	TemL	tumor	M	51 yrs		TemL

H19.06.362		Human	PublishedLD_Cultured	TemL	Epileptiform Events	M	58 yrs
H19.06.364		Human	PublishedLD_Cultured	FroL	tumor	M	19 yrs
H19.26.402		Human	PublishedLD_Cultured	MFG	tumor	M	57 yrs
H19.26.405		Human	PublishedLD_Cultured	MFG	tumor	F	62 yrs
H19.26.407		Human	PublishedLD_Cultured	AOrG	tumor	F	62 yrs
H20.03.304		Human	PublishedLD_Cultured	STG	epilepsy	M	24 yrs
H20.03.305		Human	PublishedLD_Cultured	MTG	epilepsy	M	50 yrs
H20.03.307		Human	PublishedLD_Cultured	STG	epilepsy	M	30 yrs
H20.03.310		Human	PublishedLD_Cultured	CgGr	epilepsy	M	44 yrs
H20.06.354		Human	PublishedLD_Cultured	AnG	tumor	M	73 yrs
H20.06.355		Human	PublishedLD_Cultured	MTG	epilepsy	M	41 yrs
H20.06.356		Human	PublishedLD_Cultured	SFG	tumor	M	44 yrs
H20.26.401		Human	PublishedLD_Cultured	TemL	tumor	M	58 yrs
H20.26.402		Human	PublishedLD_Cultured	FroL	tumor	F	50 yrs
H20.26.406		Human	PublishedLD_Cultured	MTG	tumor	M	56 yrs
H20.26.407		Human	PublishedLD_Cultured	MTG	tumor	F	70 yrs
H20.26.408		Human	PublishedLD_Cultured	MTG	tumor	M	64 yrs
H20.26.409		Human	PublishedLD_Cultured	ParL	tumor	F	63 yrs
H20.26.411		Human	PublishedLD_Cultured	SFG	tumor	M	50 yrs
H20.26.412		Human	PublishedLD_Cultured	AOrG	tumor	M	28 yrs
H21.03.302		Human	PublishedLD_Cultured	MTG	tumor	M	67 yrs
H21.03.304		Human	PublishedLD_Cultured	ITG	epilepsy	F	37 yrs
H21.26.401		Human	PublishedLD_Cultured	MTG	tumor	M	67 yrs
H21.26.402		Human	PublishedLD_Cultured	MTG	tumor	M	80 yrs
H21.26.403		Human	PublishedLD_Cultured	MTG	tumor	F	38 yrs
H21.26.404		Human	PublishedLD_Cultured	SOG	tumor	M	75 yrs

TemL
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TemL
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ParL
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FroL
TemL
FroL
TemL
TemL
ParL
FroL
FroL
TemL
TemL
TemL
OccL

Supplementary Table 2a. Mouse metadata

Mouse	Sex	Age
347157	F	P56
347159	F	P58
347205	F	P62
348727	M	P48
348997	M	P54
349007	M	P48
349020	M	P47
350672	F	P49
350674	F	P50
350675	F	P51
351472	F	P49
351473	F	P50
352686	M	P45
352688	M	P46
352690	F	P49
353735	M	P39
353737	M	P40
353740	F	P42
354378	M	P36
354958	M	P47
354959	F	P48
355016	M	P39
355222	M	P45
355223	M	P46
355224	M	P47
355226	F	P48
355228	F	P49
355230	F	P46
355585	M	P45
355591	F	P47
358897	F	P49
358898	F	P48
359342	M	P50
361253	M	P62
361703	M	P49
361705	M	P46
361706	F	P46
362149	M	P51
362153	F	P44
363946	M	P54
363949	F	P47
363967	M	P47
363968	M	P43
363969	M	P50

363973	F	P46
364558	M	P52
364559	F	P51
367172	F	P60
367205	M	P55
367208	F	P58
368761	M	P62
368853	F	P56
368860	M	P61
368861	F	P62
368862	F	P63
368863	F	P63
368864	F	P64
368865	F	P65
372795	M	P47
372798	F	P49
374536	F	P45
377309	M	P48
377310	M	P49
377313	M	P49
377316	F	P50
378108	M	P51
378110	M	P49
378475	F	P50
379866	M	P48
379873	F	P44
379874	F	P46
380156	M	P50
380160	M	P51
380161	M	P52
380655	F	P56
381042	M	P46
381045	F	P47
381047	F	P48
381810	F	P58
381812	F	P59
381886	M	P49
382695	F	P54
383086	M	P57
384211	M	P51
384591	F	P56
384859	M	P53
385740	M	P54
385743	M	P55
386058	M	P57
386651	F	P53

387150	M	P58
387320	M	P52
389956	F	P51
390981	F	P54
390983	F	P54
391467	F	P51
392647	M	P60
393686	F	P61
393687	F	P62
393692	M	P63
393922	F	P60
393923	F	P61
393924	M	P63
395303	M	P54
396625	M	P52
396817	F	P52
397651	M	P55
397654	M	P61
397655	M	P62
398004	F	P53
398013	F	P52
399698	M	P54
399825	M	P55
402685	M	P63
403559	M	P53
403560	F	P54
403931	F	P51
404479	M	P54
406386	M	P57
406388	F	P55
406389	F	P56
406655	F	P53
407127	M	P49
407131	M	P50
407235	F	P62
407479	M	P60
407562	F	P53
408755	M	P55
408759	F	P56
408761	F	P58
408892	F	P58
408893	F	P55
408894	F	P62
409200	F	P57
409269	F	P57
409347	M	P54

409679	M	P57
409684	F	P58
410166	M	P56
411498	F	P57
411627	M	P48
412517	F	P55
412518	F	P56
412526	M	P57
412527	F	P59
415022	M	P55
415421	M	P54
416938	F	P57
417268	M	P58
417327	M	P53
417331	M	P55
417711	M	P57
418814	M	P57
418815	M	P58
418816	M	P60
419287	F	P55
419291	F	P56
419797	M	P53
421030	M	P52
421031	M	P53
422598	F	P60
425128	F	P55
427597	M	P53
431562	M	P50
432548	F	P49
433542	M	P48
434336	M	P55
434588	F	P75
435637	F	P55
437559	F	P60
437762	M	P59
442606	F	P60
442769	F	P56
442794	M	P53
442796	F	P56
442797	F	P56
443337	M	P56
443338	M	P58
444161	M	P53
445308	F	P59
445685	F	P59
445711	M	P52

445712	M	P55
446681	M	P58
450876	F	P54
451115	M	P85
451117	M	P86
451119	F	P89
451336	M	P56
452866	F	P56
453051	F	P57
453077	F	P89
455016	M	P55
455018	M	P58
456104	M	P60
456105	M	P63
456107	M	P64
456109	F	P66
456110	F	10 wks
457299	M	P51
460304	M	P49
460308	F	P50
460309	F	P52
461574	F	P54
461933	F	P55
468435	M	P56
468437	F	P57
470194	M	P52
470195	M	P53
470196	F	P55
471157	M	P55
472422	M	P55
473098	F	P56
477022	F	P58
477850	M	P59
479202	F	P60
479903	M	P52
480220	M	P57
480221	M	P58
481162	F	P56
482444	M	P56
484066	M	P55
484067	M	P56
484137	M	P54
485419	M	P54
485420	M	P55
485421	M	P58
485430	M	P59

485432	M	P61
490004	M	P53
498264	M	P52
499188	F	P59
499189	F	P60
499190	F	P61
499191	F	P62
500414	M	P55
508158	M	P54
548440	F	P54
578140	F	P60
579334	M	P52
579337	F	P57
582439	M	P48
595001	M	9 wks
596326	F	P53
603451	M	P55
604728	M	P54
604949	F	P56
605930	M	P56
605932	M	P59
606634	M	P55
606664	M	P55
606805	F	P56
607073	M	P57
607074	F	P58
626576	M	P52
627391	M	P54
634112	M	P54
641058	M	P58
641059	M	P58
643483	M	P54
643484	M	P55
644263	F	P63
646936	F	P54
661648	M	P57
665565	M	P55
665566	F	P56
667036	M	P57
667037	F	P57
668016	M	P57
668017	M	P58
670420	F	P54
670421	F	P55
670840	M	P59
670841	F	P60

673117	M	P56
684404	M	P59
689739	F	P61
691516	M	P55
695525	M	P57
696407	F	P56
697390	F	P61
701492	M	P62
708512	M	P48
720303	M	P60
750124	M	P55
769450	F	P58
776495	M	P60
780154	M	P56
780726	F	P55
780814	M	P61
783430	M	P49
783435	M	P50

Supplementary Table 2b. Mouse specimen ID

spec_id	Mouse Number	Sex	Age	Name
637381329	347157	F	P56	Oxtr-T2A-Cre;Ai14-347157.04.01.03
637824915	349020	M	P47	Htr3a-Cre_NO152;Ai14-349020.03.02.02
637833144	349020	M	P47	Htr3a-Cre_NO152;Ai14-349020.03.02.03
637846989	349020	M	P47	Htr3a-Cre_NO152;Ai14-349020.05.01.02
637866154	349020	M	P47	Htr3a-Cre_NO152;Ai14-349020.06.02.01
638205354	347159	F	P58	Oxtr-T2A-Cre;Ai14-347159.04.01.01
638212024	347159	F	P58	Oxtr-T2A-Cre;Ai14-347159.04.01.02
638225388	347159	F	P58	Oxtr-T2A-Cre;Ai14-347159.04.01.03
638246905	349007	M	P48	Rorb-IRES2-Cre;Ai14-349007.06.01.02
639018814	347205	F	P62	Slc32a1-IRES-Cre;Ai14-347205.05.02.02
639216521	348997	M	P54	Slc32a1-IRES-Cre;Ai14-348997.05.02.02
639689999	350672	F	P49	Gad2-IRES-Cre;Ai14-350672.03.01.01
639796648	350674	F	P50	Gad2-IRES-Cre;Ai14-350674.04.01.01
640106803	350675	F	P51	Gad2-IRES-Cre;Ai14-350675.04.01.01
640311818	351472	F	P49	Oxtr-T2A-Cre;Ai14-351472.04.02.01
640319052	351472	F	P49	Oxtr-T2A-Cre;Ai14-351472.04.01.02
642110310	351473	F	P50	Oxtr-T2A-Cre;Ai14-351473.03.01.02
642124659	351473	F	P50	Oxtr-T2A-Cre;Ai14-351473.05.02.02
642429586	353735	M	P39	Ndnf-IRES2-dgCre;Ai14-353735.05.01.01
642442513	353735	M	P39	Ndnf-IRES2-dgCre;Ai14-353735.03.02.01
642488015	352686	M	P45	Gad2-IRES-Cre;Ai14-352686.05.02.02
642496703	352686	M	P45	Gad2-IRES-Cre;Ai14-352686.03.02.01
642512300	352686	M	P45	Gad2-IRES-Cre;Ai14-352686.04.01.01
642532676	352686	M	P45	Gad2-IRES-Cre;Ai14-352686.04.01.03
642767494	354378	M	P36	Vip-IRES-Cre;Ai14-354378.03.01.01
642827810	352688	M	P46	Gad2-IRES-Cre;Ai14-352688.04.02.02

642833509	353737	M	P40	Ndnf-IRES2-dgCre;Ai14-353737.04.02.01
642842839	353737	M	P40	Ndnf-IRES2-dgCre;Ai14-353737.04.01.01
642851911	353737	M	P40	Ndnf-IRES2-dgCre;Ai14-353737.03.01.01
643190956	353740	F	P42	Ndnf-IRES2-dgCre;Ai14-353740.04.02.01
643251590	352690	F	P49	Gad2-IRES-Cre;Ai14-352690.03.01.02
643269551	352690	F	P49	Gad2-IRES-Cre;Ai14-352690.03.02.02
643501610	355016	M	P39	Chrna2-Cre_OE25;Ai14-355016.04.01.01
644842725	355222	M	P45	Ndnf-IRES2-dgCre;Ai14-355222.05.01.01
644848057	355222	M	P45	Ndnf-IRES2-dgCre;Ai14-355222.03.01.01
644857312	355222	M	P45	Ndnf-IRES2-dgCre;Ai14-355222.03.01.02
644917900	355223	M	P46	Ndnf-IRES2-dgCre;Ai14-355223.04.02.01
644919379	355223	M	P46	Ndnf-IRES2-dgCre;Ai14-355223.05.02.01
644934835	354958	M	P47	Slc32a1-IRES-Cre;Ai14-354958.04.02.02
644935848	355230	F	P46	Ndnf-IRES2-dgCre;Ai14-355230.04.01.02
644936843	354958	M	P47	Slc32a1-IRES-Cre;Ai14-354958.04.01.01
644941196	355230	F	P46	Ndnf-IRES2-dgCre;Ai14-355230.06.01.01
644946047	355230	F	P46	Ndnf-IRES2-dgCre;Ai14-355230.03.01.01
644946408	355230	F	P46	Ndnf-IRES2-dgCre;Ai14-355230.03.01.02
644957513	355585	M	P45	Htr3a-Cre_NO152;Ai14-355585.04.01.01
644976625	355224	M	P47	Ndnf-IRES2-dgCre;Ai14-355224.04.01.01
644994103	354959	F	P48	Slc32a1-IRES-Cre;Ai14-354959.04.02.01
645000287	354959	F	P48	Slc32a1-IRES-Cre;Ai14-354959.04.02.02
645009607	354959	F	P48	Slc32a1-IRES-Cre;Ai14-354959.04.01.01
645016032	354959	F	P48	Slc32a1-IRES-Cre;Ai14-354959.05.02.02
645016286	354959	F	P48	Slc32a1-IRES-Cre;Ai14-354959.04.01.03
645023727	354959	F	P48	Slc32a1-IRES-Cre;Ai14-354959.03.02.02
645075128	355226	F	P48	Ndnf-IRES2-dgCre;Ai14-355226.05.02.01
645158069	355591	F	P47	Htr3a-Cre_NO152;Ai14-355591.04.01.02
645162257	355228	F	P49	Ndnf-IRES2-dgCre;Ai14-355228.05.02.01
645169930	355228	F	P49	Ndnf-IRES2-dgCre;Ai14-355228.04.01.01
648582997	358898	F	P48	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-358898.04.01.01
648585371	358898	F	P48	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-358898.04.01.02
648593656	358898	F	P48	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-358898.05.01.02
648594299	358898	F	P48	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-358898.03.01.01
648605614	358898	F	P48	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-358898.03.02.01
648607165	358898	F	P48	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-358898.03.02.02
649008116	358897	F	P49	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-358897.04.02.01
649012415	358897	F	P49	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-358897.03.02.02
649382312	359342	M	P50	Oxtr-T2A-Cre;Ai14-359342.04.02.01
650132917	361706	F	P46	Ndnf-IRES2-dgCre;Ai14-361706.05.01.02
650156059	361705	M	P46	Ndnf-IRES2-dgCre;Ai14-361705.04.02.01
650161028	361705	M	P46	Ndnf-IRES2-dgCre;Ai14-361705.05.02.01
650172921	361705	M	P46	Ndnf-IRES2-dgCre;Ai14-361705.04.01.01
650476171	362153	F	P44	Gad2-IRES-Cre;Ai14-362153.04.01.01

650484677	362153	F	P44	Gad2-IRES-Cre;Ai14-362153.04.01.03
651151937	361703	M	P49	Ndnf-IRES2-dgCre;Ai14-361703.05.02.01
651161691	361703	M	P49	Ndnf-IRES2-dgCre;Ai14-361703.05.02.02
651167896	361703	M	P49	Ndnf-IRES2-dgCre;Ai14-361703.05.02.03
652300499	362149	M	P51	Gad2-IRES-Cre;Ai14-362149.05.01.02
652303366	362149	M	P51	Gad2-IRES-Cre;Ai14-362149.05.01.03
652305423	362149	M	P51	Gad2-IRES-Cre;Ai14-362149.04.01.01
652810157	363968	M	P43	Ndnf-IRES2-dgCre;Ai14-363968.04.01.01
652811224	363968	M	P43	Ndnf-IRES2-dgCre;Ai14-363968.04.01.02
652812484	363968	M	P43	Ndnf-IRES2-dgCre;Ai14-363968.05.01.01
652938130	361253	M	P62	Htr3a-Cre_NO152;Ai14-361253.04.01.01
652953931	363973	F	P46	Ndnf-IRES2-dgCre;Ai14-363973.05.01.01
652953971	363973	F	P46	Ndnf-IRES2-dgCre;Ai14-363973.04.02.01
652959132	363973	F	P46	Ndnf-IRES2-dgCre;Ai14-363973.03.02.03
652959904	363973	F	P46	Ndnf-IRES2-dgCre;Ai14-363973.05.02.01
653024237	363949	F	P47	Slc32a1-IRES2-FlpO;Ai65F-363949.03.02.01
653024481	363949	F	P47	Slc32a1-IRES2-FlpO;Ai65F-363949.04.01.01
653031614	363967	M	P47	Ndnf-IRES2-dgCre;Ai14-363967.05.02.01
653031656	363967	M	P47	Ndnf-IRES2-dgCre;Ai14-363967.04.01.01
653199987	363969	M	P50	Ndnf-IRES2-dgCre;Ai14-363969.04.02.01
653203017	363969	M	P50	Ndnf-IRES2-dgCre;Ai14-363969.04.02.02
653677436	363946	M	P54	Slc32a1-IRES2-FlpO;Ai65F-363946.05.02.01
654407470	364559	F	P51	Slc32a1-IRES-Cre;Ai14-364559.04.01.02
654689557	364558	M	P52	Slc32a1-IRES-Cre;Ai14-364558.05.01.02
656912028	367205	M	P55	Nos1-CreERT2;Ai14-367205.03.02.01
657185314	367172	F	P60	Chrna2-Cre_OE25;Ai14-367172.04.02.02
657194483	367208	F	P58	Nos1-CreERT2;Ai14-367208.04.02.01
657532988	368853	F	P56	Ndnf-IRES2-dgCre;Ai14-368853.03.01.01
657585527	368853	F	P56	Ndnf-IRES2-dgCre;Ai14-368853.04.01.01
657945461	368860	M	P61	Htr3a-Cre_NO152;Ai14-368860.04.02.02
658061248	368761	M	P62	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-368761.04.01.01
658068133	368761	M	P62	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-368761.05.02.01
658075752	368761	M	P62	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-368761.05.02.02
658089840	368761	M	P62	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-368761.06.02.01
658103346	368861	F	P62	Htr3a-Cre_NO152;Ai14-368861.05.01.02
658124114	368861	F	P62	Htr3a-Cre_NO152;Ai14-368861.05.02.01
658411218	368862	F	P63	Htr3a-Cre_NO152;Ai14-368862.05.01.02
658435131	368863	F	P63	Htr3a-Cre_NO152;Ai14-368863.04.01.02
658441785	368863	F	P63	Htr3a-Cre_NO152;Ai14-368863.05.02.01
658477694	368863	F	P63	Htr3a-Cre_NO152;Ai14-368863.04.02.02
658603411	368864	F	P64	Htr3a-Cre_NO152;Ai14-368864.02.01.01
659147142	368865	F	P65	Htr3a-Cre_NO152;Ai14-368865.03.02.01
659678793	372795	M	P47	Htr3a-Cre_NO152;Ai14-372795.04.01.01
660286172	372798	F	P49	Htr3a-Cre_NO152;Ai14-372798.04.01.01
661401628	374536	F	P45	Oxtr-T2A-Cre;Ai14-374536.03.01.01

661422469	374536	F	P45	Oxtr-T2A-Cre;Ai14-374536.04.01.02
667300994	377309	M	P48	Ndnf-IRES2-dgCre;Ai14-377309.06.02.01
667306013	377309	M	P48	Ndnf-IRES2-dgCre;Ai14-377309.04.02.01
667319630	377309	M	P48	Ndnf-IRES2-dgCre;Ai14-377309.06.01.01
667320923	377309	M	P48	Ndnf-IRES2-dgCre;Ai14-377309.05.02.02
667321194	377309	M	P48	Ndnf-IRES2-dgCre;Ai14-377309.03.02.01
667478348	377310	M	P49	Ndnf-IRES2-dgCre;Ai14-377310.05.02.01
667478506	377310	M	P49	Ndnf-IRES2-dgCre;Ai14-377310.06.02.01
667492234	377313	M	P49	Ndnf-IRES2-dgCre;Ai14-377313.05.01.01
667492404	377310	M	P49	Ndnf-IRES2-dgCre;Ai14-377310.05.01.01
667492978	377313	M	P49	Ndnf-IRES2-dgCre;Ai14-377313.06.01.01
667493822	377313	M	P49	Ndnf-IRES2-dgCre;Ai14-377313.05.02.01
667585479	377310	M	P49	Ndnf-IRES2-dgCre;Ai14-377310.04.02.01
668242473	377316	F	P50	Ndnf-IRES2-dgCre;Ai14-377316.03.01.01
668292781	377316	F	P50	Ndnf-IRES2-dgCre;Ai14-377316.04.01.01
668319974	377316	F	P50	Ndnf-IRES2-dgCre;Ai14-377316.04.02.01
668426472	377316	F	P50	Ndnf-IRES2-dgCre;Ai14-377316.06.02.01
668489573	378475	F	P50	Ndnf-IRES2-dgCre;Ai14-378475.04.02.01
669522853	378110	M	P49	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-378110.04.02.02
669523148	378110	M	P49	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-378110.03.01.01
669567574	378110	M	P49	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-378110.03.01.02
670534322	378108	M	P51	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-378108.04.01.01
670556259	378108	M	P51	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-378108.03.02.01
670607755	378108	M	P51	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-378108.02.02.01
671876425	379873	F	P44	Ndnf-IRES2-dgCre;Ai14-379873.04.02.01
671927927	379873	F	P44	Ndnf-IRES2-dgCre;Ai14-379873.03.02.01
671943738	379873	F	P44	Ndnf-IRES2-dgCre;Ai14-379873.03.02.02
673047103	379874	F	P46	Ndnf-IRES2-dgCre;Ai14-379874.04.02.01
673121351	379874	F	P46	Ndnf-IRES2-dgCre;Ai14-379874.04.01.01
673139917	379874	F	P46	Ndnf-IRES2-dgCre;Ai14-379874.04.01.02
673724358	379866	M	P48	Ndnf-IRES2-dgCre;Ai14-379866.03.01.01
674238265	380156	M	P50	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-380156.05.01.01
674240849	380156	M	P50	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-380156.04.02.01
674246494	380156	M	P50	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-380156.03.01.01
674247723	381042	M	P46	Htr3a-Cre_NO152;Ai14-381042.03.01.01
674471452	380160	M	P51	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-380160.03.01.01
674559170	381045	F	P47	Htr3a-Cre_NO152;Ai14-381045.03.01.01
674582479	381045	F	P47	Htr3a-Cre_NO152;Ai14-381045.05.01.01
675025710	381047	F	P48	Htr3a-Cre_NO152;Ai14-381047.04.02.01
675027801	380161	M	P52	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-380161.01.02.03
676757248	380655	F	P56	Gad2-IRES-Cre;Ai14-380655.02.02.02
677042379	381810	F	P58	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-381810.03.01.01
677042504	381810	F	P58	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-381810.04.01.02

680904066	381812	F	P59	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-381812.03.01.01
680964142	382695	F	P54	Gad2-IRES-Cre;Ai14-382695.04.01.02
682158343	384211	M	P51	Slc32a1-IRES-Cre;Ai14-384211.05.02.01
682163968	384211	M	P51	Slc32a1-IRES-Cre;Ai14-384211.04.01.02
682177103	384211	M	P51	Slc32a1-IRES-Cre;Ai14-384211.04.01.03
682320370	384211	M	P51	Slc32a1-IRES-Cre;Ai14-384211.05.01.03
682331689	384211	M	P51	Slc32a1-IRES-Cre;Ai14-384211.05.01.04
685382599	384859	M	P53	Gad2-IRES-Cre;Ai14-384859.05.02.01
686334539	384591	F	P56	Ndnf-IRES2-dgCre;Ai14-384591.03.02.02
686334676	384591	F	P56	Ndnf-IRES2-dgCre;Ai14-384591.05.02.01
688133015	385740	M	P54	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-385740.03.01.01
688152462	385740	M	P54	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-385740.03.02.01
688175350	385740	M	P54	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-385740.03.02.02
689256816	385743	M	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-385743.04.01.01
689279957	385743	M	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-385743.04.01.02
691665864	386058	M	P57	Gad2-IRES-Cre;Ai14-386058.02.01.01
691673416	386058	M	P57	Gad2-IRES-Cre;Ai14-386058.02.01.02
691685873	386058	M	P57	Gad2-IRES-Cre;Ai14-386058.04.02.02
692296799	387320	M	P52	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-387320.04.02.01
692309268	387320	M	P52	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-387320.05.01.01
697764035	389956	F	P51	Htr3a-Cre_NO152;Ai14-389956.02.01.01
697811579	389956	F	P51	Htr3a-Cre_NO152;Ai14-389956.03.01.01
697811820	389956	F	P51	Htr3a-Cre_NO152;Ai14-389956.03.01.02
700161354	391467	F	P51	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-391467.02.01.01
700193566	391467	F	P51	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-391467.02.01.02
700278065	391467	F	P51	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-391467.03.01.01
701148434	390981	F	P54	Htr3a-Cre_NO152;Ai14-390981.05.01.01
701152294	390981	F	P54	Htr3a-Cre_NO152;Ai14-390981.04.02.01
701155312	390981	F	P54	Htr3a-Cre_NO152;Ai14-390981.03.02.01
701684250	390983	F	P54	Htr3a-Cre_NO152;Ai14-390983.04.02.01
706531271	392647	M	P60	Ndnf-IRES2-dgCre;Ai14-392647.04.01.02
706531340	392647	M	P60	Ndnf-IRES2-dgCre;Ai14-392647.05.02.01
706544221	392647	M	P60	Ndnf-IRES2-dgCre;Ai14-392647.03.01.01
707660063	393686	F	P61	Gad2-IRES-Cre;Ai14-393686.03.01.01
707666779	393686	F	P61	Gad2-IRES-Cre;Ai14-393686.04.02.03
707678952	393686	F	P61	Gad2-IRES-Cre;Ai14-393686.03.01.03
707681894	393686	F	P61	Gad2-IRES-Cre;Ai14-393686.04.02.04
708495657	393687	F	P62	Gad2-IRES-Cre;Ai14-393687.03.02.01
708513415	393687	F	P62	Gad2-IRES-Cre;Ai14-393687.03.02.02
708696754	393922	F	P60	Slc32a1-IRES-Cre;Ai14-393922.05.01.03
708766941	393922	F	P60	Slc32a1-IRES-Cre;Ai14-393922.05.01.06
709417950	393923	F	P61	Slc32a1-IRES-Cre;Ai14-393923.05.01.01
709423277	393692	M	P63	Gad2-IRES-Cre;Ai14-393692.03.02.03
709447918	393923	F	P61	Slc32a1-IRES-Cre;Ai14-393923.05.01.04

709453221	393923	F	P61	Slc32a1-IRES-Cre;Ai14-393923.05.01.05
709461711	393923	F	P61	Slc32a1-IRES-Cre;Ai14-393923.03.01.01
710346584	393924	M	P63	Slc32a1-IRES-Cre;Ai14-393924.04.02.01
711477649	396817	F	P52	Nos1-CreERT2;Ai14-396817.05.01.02
711483359	396817	F	P52	Nos1-CreERT2;Ai14-396817.04.01.01
711508435	396817	F	P52	Nos1-CreERT2;Ai14-396817.04.02.01
711510463	396817	F	P52	Nos1-CreERT2;Ai14-396817.04.01.02
711572453	396625	M	P52	Ndnf-IRES2-dgCre;Ai14-396625.05.02.01
711572656	396817	F	P52	Nos1-CreERT2;Ai14-396817.03.02.02
711577762	396625	M	P52	Ndnf-IRES2-dgCre;Ai14-396625.04.02.03
714701049	397651	M	P55	Htr3a-Cre_NO152;Ai14-397651.03.01.02
714717722	397651	M	P55	Htr3a-Cre_NO152;Ai14-397651.02.01.01
714722191	397651	M	P55	Htr3a-Cre_NO152;Ai14-397651.02.01.02
716556217	397654	M	P61	Htr3a-Cre_NO152;Ai14-397654.04.02.01
716562206	397654	M	P61	Htr3a-Cre_NO152;Ai14-397654.04.02.03
716832846	397655	M	P62	Htr3a-Cre_NO152;Ai14-397655.04.02.02
716846357	397655	M	P62	Htr3a-Cre_NO152;Ai14-397655.03.01.01
717637005	399698	M	P54	Gad2-IRES-Cre;Ai14-399698.04.01.01
717655913	399698	M	P54	Gad2-IRES-Cre;Ai14-399698.04.01.02
717675736	399698	M	P54	Gad2-IRES-Cre;Ai14-399698.04.01.03
717770635	399698	M	P54	Gad2-IRES-Cre;Ai14-399698.05.01.01
718849411	399825	M	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-399825.05.02.01
724191966	403559	M	P53	Gad2-IRES-Cre;Ai14-403559.04.01.01
724744790	403560	F	P54	Gad2-IRES-Cre;Ai14-403560.03.01.01
724756081	403560	F	P54	Gad2-IRES-Cre;Ai14-403560.03.01.02
724770442	403560	F	P54	Gad2-IRES-Cre;Ai14-403560.03.01.03
724802323	403560	F	P54	Gad2-IRES-Cre;Ai14-403560.03.01.06
724812900	403560	F	P54	Gad2-IRES-Cre;Ai14-403560.03.02.04
726156251	404479	M	P54	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-404479.04.01.01
726192665	404479	M	P54	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-404479.04.01.02
727146579	402685	M	P63	Htr3a-Cre_NO152;Ai14-402685.03.01.03
730829986	407127	M	P49	Htr3a-Cre_NO152;Ai14-407127.03.01.03
730849363	407127	M	P49	Htr3a-Cre_NO152;Ai14-407127.03.02.01
730859444	407127	M	P49	Htr3a-Cre_NO152;Ai14-407127.03.02.02
730867067	407127	M	P49	Htr3a-Cre_NO152;Ai14-407127.03.02.03
730878829	407127	M	P49	Htr3a-Cre_NO152;Ai14-407127.03.02.04
731882356	406655	F	P53	Ndnf-IRES2-dgCre;Ai14-406655.04.01.01
731917470	406655	F	P53	Ndnf-IRES2-dgCre;Ai14-406655.04.01.02
731974838	407131	M	P50	Htr3a-Cre_NO152;Ai14-407131.03.02.03
731980846	406655	F	P53	Ndnf-IRES2-dgCre;Ai14-406655.03.02.02
732708277	406388	F	P55	Gad2-IRES-Cre;Ai14-406388.04.01.01
733537608	406389	F	P56	Gad2-IRES-Cre;Ai14-406389.03.01.02
734802524	406386	M	P57	Gad2-IRES-Cre;Ai14-406386.04.02.03
736485304	407562	F	P53	Htr3a-Cre_NO152;Ai14-407562.05.02.01
736493069	407562	F	P53	Htr3a-Cre_NO152;Ai14-407562.03.02.01
739594128	408755	M	P55	Oxtr-T2A-Cre;Ai14-408755.05.02.04

739710318	408755	M	P55	Oxtr-T2A-Cre;Ai14-408755.04.01.02
740329222	408759	F	P56	Oxtr-T2A-Cre;Ai14-408759.04.01.04
740377985	408893	F	P55	Oxtr-T2A-Cre;Ai14-408893.04.01.01
741202597	408761	F	P58	Oxtr-T2A-Cre;Ai14-408761.05.02.01
741225385	408761	F	P58	Oxtr-T2A-Cre;Ai14-408761.04.01.02
741894708	408892	F	P58	Oxtr-T2A-Cre;Ai14-408892.03.01.04
741977538	409200	F	P57	Ndnf-IRES2-dgCre;Ai14-409200.04.02.03
742016193	409200	F	P57	Ndnf-IRES2-dgCre;Ai14-409200.06.02.01
742022294	409200	F	P57	Ndnf-IRES2-dgCre;Ai14-409200.06.02.02
742059312	409200	F	P57	Ndnf-IRES2-dgCre;Ai14-409200.06.02.04
743013006	408894	F	P62	Oxtr-T2A-Cre;Ai14-408894.03.02.05
743770160	411627	M	P48	Nos1-CreERT2;Ai14-411627.05.02.02
746086313	411498	F	P57	Htr3a-Cre_NO152;Ai14-411498.04.02.01
746102029	411498	F	P57	Htr3a-Cre_NO152;Ai14-411498.05.01.01
746108633	411498	F	P57	Htr3a-Cre_NO152;Ai14-411498.04.02.02
746172313	411498	F	P57	Htr3a-Cre_NO152;Ai14-411498.05.01.04
750378755	412517	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-412517.04.01.01
750421101	412517	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-412517.04.01.04
750421132	412517	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-412517.04.02.01
750773551	412518	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-412518.02.02.02
750780017	412518	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-412518.02.02.03
750783623	412518	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-412518.02.02.04
750786577	412518	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-412518.04.01.01
750795641	412518	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-412518.04.01.03
752076719	412526	M	P57	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-412526.05.02.01
754271180	412527	F	P59	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-412527.05.02.01
761409397	417268	M	P58	Pvalb-IRES-Cre;Ai14-417268.04.02.03
764341238	418814	M	P57	Slc32a1-IRES-Cre;Ai14-418814.04.02.01
764365826	418814	M	P57	Slc32a1-IRES-Cre;Ai14-418814.04.01.01
764391439	418814	M	P57	Slc32a1-IRES-Cre;Ai14-418814.04.01.02
764464218	418814	M	P57	Slc32a1-IRES-Cre;Ai14-418814.05.02.01
764479836	418814	M	P57	Slc32a1-IRES-Cre;Ai14-418814.05.02.02
764484965	418814	M	P57	Slc32a1-IRES-Cre;Ai14-418814.05.02.03
764500049	419287	F	P55	Gad2-IRES-Cre;Ai14-419287.02.01.01
764834652	418815	M	P58	Slc32a1-IRES-Cre;Ai14-418815.03.01.02
764870999	419797	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-419797.03.01.01
764896381	419797	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-419797.05.02.02
764897253	419797	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-419797.05.01.01
764898234	419797	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-419797.04.02.02
764899841	419797	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-419797.03.02.02
764899933	419291	F	P56	Gad2-IRES-Cre;Ai14-419291.06.02.01
764901187	419797	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-419797.06.02.01
764901694	419291	F	P56	Gad2-IRES-Cre;Ai14-419291.03.01.02

764902677	419291	F	P56	Gad2-IRES-Cre;Ai14-419291.06.02.02
764902707	419291	F	P56	Gad2-IRES-Cre;Ai14-419291.03.01.03
764915850	419291	F	P56	Gad2-IRES-Cre;Ai14-419291.03.01.04
764916581	419797	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-419797.06.02.02
764929763	419797	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-419797.06.01.02
765143388	419797	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-419797.04.01.02
766049138	418816	M	P60	Slc32a1-IRES-Cre;Ai14-418816.05.02.02
766068893	418816	M	P60	Slc32a1-IRES-Cre;Ai14-418816.05.02.03
766204354	422598	F	P60	Slc32a1-IRES-Cre;Ai14-422598.05.01.01
766224440	422598	F	P60	Slc32a1-IRES-Cre;Ai14-422598.05.02.07
766774703	421030	M	P52	Nos1-CreERT2;Ai14-421030.05.01.02
767257549	421031	M	P53	Nos1-CreERT2;Ai14-421031.04.01.02
788256204	427597	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-427597.03.01.01
788349250	427597	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-427597.05.02.02
788362658	427597	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-427597.03.02.02
788400935	427597	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-427597.03.02.04
788418848	427597	M	P53	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-427597.06.01.01
797062169	431562	M	P50	Htr3a-Cre_NO152;Ai14-431562.05.01.01
797113792	431562	M	P50	Htr3a-Cre_NO152;Ai14-431562.03.02.04
797153425	431562	M	P50	Htr3a-Cre_NO152;Ai14-431562.03.01.02
799870027	432548	F	P49	Sncg-IRES2-FlpO-neo;Ai65F-432548.06.02.02
802366304	432548	F	P49	Sncg-IRES2-FlpO-neo;Ai65F-432548.05.01.01
812969884	437762	M	P59	Vip-IRES-Cre;Ai14-437762.05.02.02
812989401	437559	F	P60	Slc32a1-IRES-Cre;Ai14-437559.03.01.02
813000460	437559	F	P60	Slc32a1-IRES-Cre;Ai14-437559.03.01.05
821594273	442794	M	P53	Ndnf-IRES2-dgCre;Ai14-442794.03.01.01
821652024	442794	M	P53	Ndnf-IRES2-dgCre;Ai14-442794.04.01.02
823681740	442769	F	P56	Pvalb-IRES-Cre;Ai14-442769.04.02.02
823719680	442796	F	P56	Ndnf-IRES2-dgCre;Ai14-442796.04.02.01
823745688	442796	F	P56	Ndnf-IRES2-dgCre;Ai14-442796.03.02.02
823889517	442797	F	P56	Ndnf-IRES2-dgCre;Ai14-442797.04.02.01
823907738	442797	F	P56	Ndnf-IRES2-dgCre;Ai14-442797.03.02.01
823952975	442797	F	P56	Ndnf-IRES2-dgCre;Ai14-442797.04.01.01
823964038	442797	F	P56	Ndnf-IRES2-dgCre;Ai14-442797.04.01.02
823968176	442797	F	P56	Ndnf-IRES2-dgCre;Ai14-442797.04.01.03
824701767	442606	F	P60	Htr3a-Cre_NO152;Ai14-442606.03.02.04
824792964	442606	F	P60	Htr3a-Cre_NO152;Ai14-442606.04.01.01
824840538	442606	F	P60	Htr3a-Cre_NO152;Ai14-442606.04.01.02
825512557	443337	M	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-443337.03.01.01
825522397	443337	M	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-443337.04.02.01
825525063	443337	M	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-443337.03.02.01
825525155	443337	M	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-443337.02.01.01
825534003	443337	M	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-443337.04.02.02

825549510	444161	M	P53	Gad2-IRES-Cre;Ai14-444161.03.01.01
826700106	443338	M	P58	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-443338.04.01.02
826710259	443338	M	P58	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-443338.04.01.03
826712572	443338	M	P58	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-443338.03.02.01
826719991	443338	M	P58	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-443338.03.02.02
826739825	443338	M	P58	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-443338.03.02.03
827347629	445308	F	P59	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-445308.03.01.01
827447865	445308	F	P59	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-445308.03.02.01
827448258	445308	F	P59	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-445308.03.01.03
827503672	445308	F	P59	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-445308.03.02.02
827524052	445308	F	P59	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-445308.04.02.01
827573535	445308	F	P59	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-445308.03.02.03
827652298	445308	F	P59	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-445308.02.02.01
828727693	445711	M	P52	Htr3a-Cre_NO152;Ai14-445711.05.01.01
828778207	445711	M	P52	Htr3a-Cre_NO152;Ai14-445711.05.01.03
828803869	445711	M	P52	Htr3a-Cre_NO152;Ai14-445711.05.02.02
830445950	445712	M	P55	Htr3a-Cre_NO152;Ai14-445712.05.02.02
832005570	445685	F	P59	Vip-IRES-Cre;Ai14-445685.05.02.03
833896435	446681	M	P58	Htr3a-Cre_NO152;Ai14-446681.03.02.02
834073873	446681	M	P58	Htr3a-Cre_NO152;Ai14-446681.05.02.02
834160937	446681	M	P58	Htr3a-Cre_NO152;Ai14-446681.02.02.01
839819559	450876	F	P54	Htr3a-Cre_NO152;Ai14-450876.04.02.01
844226005	452866	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-452866.04.01.01
844231938	452866	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-452866.02.02.01
844232846	452866	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-452866.04.02.02
844242654	452866	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-452866.02.02.02
844254029	452866	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-452866.02.01.01
844269667	452866	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-452866.05.02.01
844282161	452866	F	P56	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-452866.05.02.02
845586342	453051	F	P57	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-453051.04.01.01
845602469	453051	F	P57	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-453051.04.01.02
845614297	453051	F	P57	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-453051.04.01.03
848635223	455016	M	P55	Gad2-IRES-Cre;Ai14-455016.03.01.01
851858759	457299	M	P51	Chrna2-Cre_OE25;Pvalb-T2A-FlpO;Ai65-457299.04.01.01
854425428	456104	M	P60	Sncg-IRES2-FlpO-neo;Ai65F-456104.03.02.03
855275163	456105	M	P63	Sncg-IRES2-FlpO-neo;Ai65F-456105.04.01.04
866267921	461574	F	P54	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-461574.04.02.01
866337101	461574	F	P54	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-461574.04.01.01
866999931	461933	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-461933.04.02.01
867015583	461933	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-461933.03.01.02

867017156	461933	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-461933.05.02.01
867027741	461933	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-461933.05.02.02
867038197	461933	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-461933.03.02.01
867096689	461933	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-461933.05.01.02
867130068	461933	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-461933.04.01.01
867176038	461933	F	P55	Ndnf-IRES2-dgCre;Slc32a1-IRES2-FlpO;Ai65-461933.06.02.02
886464017	468435	M	P56	Htr3a-Cre_NO152;Ai14-468435.03.01.01
886482499	468435	M	P56	Htr3a-Cre_NO152;Ai14-468435.04.02.01
887156236	468437	F	P57	Htr3a-Cre_NO152;Ai14-468437.04.02.01
888001481	470194	M	P52	Ndnf-IRES2-dgCre;Ai14-470194.04.01.01
888080861	470194	M	P52	Ndnf-IRES2-dgCre;Ai14-470194.04.02.01
888088377	470194	M	P52	Ndnf-IRES2-dgCre;Ai14-470194.04.01.03
888108541	470194	M	P52	Ndnf-IRES2-dgCre;Ai14-470194.03.02.01
888115032	470194	M	P52	Ndnf-IRES2-dgCre;Ai14-470194.03.01.01
888214374	470194	M	P52	Ndnf-IRES2-dgCre;Ai14-470194.03.02.02
889183564	470195	M	P53	Ndnf-IRES2-dgCre;Ai14-470195.04.02.01
889218836	470195	M	P53	Ndnf-IRES2-dgCre;Ai14-470195.04.01.03
889235347	470195	M	P53	Ndnf-IRES2-dgCre;Ai14-470195.04.02.02
889266673	470195	M	P53	Ndnf-IRES2-dgCre;Ai14-470195.05.01.01
889337361	470195	M	P53	Ndnf-IRES2-dgCre;Ai14-470195.06.02.01
891449886	470196	F	P55	Ndnf-IRES2-dgCre;Ai14-470196.04.02.01
891495976	470196	F	P55	Ndnf-IRES2-dgCre;Ai14-470196.04.02.02
891514933	470196	F	P55	Ndnf-IRES2-dgCre;Ai14-470196.04.01.02
891534772	470196	F	P55	Ndnf-IRES2-dgCre;Ai14-470196.04.01.03
891558548	470196	F	P55	Ndnf-IRES2-dgCre;Ai14-470196.04.01.04
891652412	470196	F	P55	Ndnf-IRES2-dgCre;Ai14-470196.03.01.02
891664096	470196	F	P55	Ndnf-IRES2-dgCre;Ai14-470196.05.01.01
894551006	471157	M	P55	Gad2-IRES-Cre;Ai14-471157.03.01.03
901179274	473098	F	P56	Gad2-IRES-Cre;Ai14-473098.03.01.02
916642385	477850	M	P59	Glt25d2-Cre_NF107;Ai14-477850.04.02.02
920529583	479202	F	P60	Vip-IRES-Cre;Ai14-479202.05.02.01
929360825	482444	M	P56	Ntsr1-Cre_GN220;Ai14-482444.04.02.01
934799128	484066	M	P55	Oxtr-T2A-Cre;Ai14-484066.03.01.01
935084855	484137	M	P54	Snrg-IRES2-FlpO-neo;Ai65F-484137.04.02.02
935760710	484067	M	P56	Oxtr-T2A-Cre;Ai14-484067.04.01.03
958922607	490004	M	P53	Slc17a8-iCre;Ai14-490004.05.02.01
987138425	498264	M	P52	Glt25d2-Cre_NF107;Ai14-498264.06.02.01
993243528	500414	M	P55	Snrg-IRES2-FlpO-neo;Ai65F-500414.03.01.01
1003020818	508158	M	P54	Vipr2-IRES2-Cre;Slc32a1-IRES2-FlpO;Ai65-508158.01.02.01
1055411789	548440	F	P54	Vipr2-IRES2-Cre;Slc32a1-IRES2-FlpO;Ai65-548440.04.02.01
1105606155	578140	F	P60	Slc17a6-IRES-Cre;Ai14-578140.05.01.01
1106021493	579334	M	P52	Gad2-IRES-Cre;Ai14-579334.03.01.01
1106038856	579334	M	P52	Gad2-IRES-Cre;Ai14-579334.03.01.04
1106041282	579334	M	P52	Gad2-IRES-Cre;Ai14-579334.05.01.03

1106981144	579337	F	P57	Gad2-IRES-Cre;Ai14-579337.06.02.04
1109492535	582439	M	P48	Gad2-IRES-Cre;Ai14-582439.06.04.04
1131117370	596326	F	P53	Sst-IRES-Cre;Ai14-596326.06.02.01
1131157058	596326	F	P53	Sst-IRES-Cre;Ai14-596326.03.02.01
1131310191	595001	M	9 wks	Sst-IRES-Cre;Ai14-595001.03.01.02
1142136817	603451	M	P55	Sst-IRES-Cre;Ai14-603451.07.02.01
1143440073	604728	M	P54	Sst-IRES-Cre;Ai14-604728.05.01.01
1144619518	604949	F	P56	Rorb-IRES2-Cre-neo;Ai14-604949.05.01.03
1145326830	605930	M	P56	Vip-IRES-Cre;Ai14-605930.04.02.01
1145916218	605932	M	P59	Vip-IRES-Cre;Ai14-605932.04.01.01
1145946269	605932	M	P59	Vip-IRES-Cre;Ai14-605932.05.01.01
1146135408	606634	M	P55	Slc17a6-IRES-Cre;Ai14-606634.06.01.01
1146149834	606634	M	P55	Slc17a6-IRES-Cre;Ai14-606634.03.02.03
1146326038	606664	M	P55	Sncg-IRES2-FlpO-neo;Ai65F-606664.04.01.01
1146361502	606664	M	P55	Sncg-IRES2-FlpO-neo;Ai65F-606664.04.01.02
1146396233	606664	M	P55	Sncg-IRES2-FlpO-neo;Ai65F-606664.03.02.01
1146400208	606664	M	P55	Sncg-IRES2-FlpO-neo;Ai65F-606664.04.02.02
1146884157	606805	F	P56	Pvalb-IRES-Cre;Ai14-606805.02.01.02
1147429279	607073	M	P57	Vip-IRES-Cre;Ai14-607073.06.01.02
1147630597	607074	F	P58	Vip-IRES-Cre;Ai14-607074.06.01.01
1282762138	684404	M	P59	Gad2-IRES-Cre;Ai14-684404.05.01.02
1418406796	783430	M	P49	Gad2-IRES-Cre;Ai14-783430.03.02.04
1418414756	783430	M	P49	Gad2-IRES-Cre;Ai14-783430.03.02.05
1418607632	783435	M	P50	Gad2-IRES-Cre;Ai14-783435.01.02.01
1178522854	627391	M	P54	Pvalb-IRES-Cre;Ai14-627391.03.01.02
1178551447	627391	M	P54	Pvalb-IRES-Cre;Ai14-627391.03.01.04
1190369832	634112	M	P54	C57BL6J-634112.05.01.03
1214926276	644263	F	P63	Pvalb-IRES-Cre;Ai14-644263.05.01.01
1214936607	644263	F	P63	Pvalb-IRES-Cre;Ai14-644263.05.01.02
1214938127	644263	F	P63	Pvalb-IRES-Cre;Ai14-644263.03.02.01
1217536313	646936	F	P54	Gad2-IRES-Cre;Ai14-646936.06.01.03
1252775877	665565	M	P55	Pvalb-IRES-Cre;Ai14-665565.02.01.01
1252789661	665565	M	P55	Pvalb-IRES-Cre;Ai14-665565.02.01.02
1253050691	665566	F	P56	Pvalb-IRES-Cre;Ai14-665566.03.02.01
1253063496	665566	F	P56	Pvalb-IRES-Cre;Ai14-665566.05.02.01
1253070192	665566	F	P56	Pvalb-IRES-Cre;Ai14-665566.05.02.02
1256866979	667036	M	P57	Pvalb-IRES-Cre;Ai14-667036.03.02.01
1256868137	667036	M	P57	Pvalb-IRES-Cre;Ai14-667036.03.01.01
1256870657	667036	M	P57	Pvalb-IRES-Cre;Ai14-667036.04.01.02
1256871845	667036	M	P57	Pvalb-IRES-Cre;Ai14-667036.03.01.02
1256874400	667036	M	P57	Pvalb-IRES-Cre;Ai14-667036.04.01.03
1256879449	667036	M	P57	Pvalb-IRES-Cre;Ai14-667036.04.01.04
1256896036	667037	F	P57	Pvalb-IRES-Cre;Ai14-667037.03.02.01
1256908034	667037	F	P57	Pvalb-IRES-Cre;Ai14-667037.03.02.02
1256914332	667037	F	P57	Pvalb-IRES-Cre;Ai14-667037.03.01.03
1265665527	670841	F	P60	Gad2-IRES-Cre;Ai14-670841.03.02.02

1268122683	673117	M	P56	Pvalb-IRES-Cre;Ai14-673117.03.01.01
1268128472	673117	M	P56	Pvalb-IRES-Cre;Ai14-673117.04.02.03
1291015598	689739	F	P61	Pvalb-IRES-Cre;Ai14-689739.03.02.01
1291028780	689739	F	P61	Pvalb-IRES-Cre;Ai14-689739.03.02.02
1291043551	689739	F	P61	Pvalb-IRES-Cre;Ai14-689739.05.01.02
1291073802	689739	F	P61	Pvalb-IRES-Cre;Ai14-689739.03.02.04
1291108047	689739	F	P61	Pvalb-IRES-Cre;Ai14-689739.04.02.02
1298277217	695525	M	P57	Dbh-Cre_KH212;RCL-H2B-GFP-695525.10.06.01
1299766868	696407	F	P56	Dbh-Cre_KH212;RCL-H2B-GFP-696407.02.06.01
1407411121	769450	F	P58	Gad2-IRES-Cre;Ai14-769450.04.01.03
1415818471	780154	M	P56	Pvalb-IRES-Cre;Ai14-780154.05.02.01
1415828560	780154	M	P56	Pvalb-IRES-Cre;Ai14-780154.03.01.01
1415829314	780154	M	P56	Pvalb-IRES-Cre;Ai14-780154.02.02.02
1415833391	780154	M	P56	Pvalb-IRES-Cre;Ai14-780154.05.02.03
1415841027	780154	M	P56	Pvalb-IRES-Cre;Ai14-780154.03.01.02
1415851986	780154	M	P56	Pvalb-IRES-Cre;Ai14-780154.02.02.04
1418593938	783435	M	P50	Gad2-IRES-Cre;Ai14-783435.03.01.02
1176788151	626576	M	P52	Gad2-IRES-Cre;Ai14-626576.04.01.01
1204616174	641058	M	P58	Sst-IRES-Cre;Ai14-641058.03.01.02
1204641135	641058	M	P58	Sst-IRES-Cre;Ai14-641058.02.01.02
1204661949	641058	M	P58	Sst-IRES-Cre;Ai14-641058.02.01.03
1204760052	641059	M	P58	Sst-IRES-Cre;Ai14-641059.04.01.01
1204793225	641059	M	P58	Sst-IRES-Cre;Ai14-641059.04.01.02
1204830762	641059	M	P58	Sst-IRES-Cre;Ai14-641059.04.01.03
1204844408	641059	M	P58	Sst-IRES-Cre;Ai14-641059.03.01.04
1204857494	641059	M	P58	Sst-IRES-Cre;Ai14-641059.04.01.04
1245848659	661648	M	P57	Sst-IRES-Cre;Ai14-661648.03.01.02
1258464606	668016	M	P57	Sst-IRES-Cre;Ai14-668016.04.01.01
1258469914	668016	M	P57	Sst-IRES-Cre;Ai14-668016.01.02.01
1258470053	668016	M	P57	Sst-IRES-Cre;Ai14-668016.06.01.01
1258691177	668017	M	P58	Sst-IRES-Cre;Ai14-668017.03.02.02
1258691672	668017	M	P58	Sst-IRES-Cre;Ai14-668017.02.02.01
1258706126	668017	M	P58	Sst-IRES-Cre;Ai14-668017.04.02.02
1258767496	668017	M	P58	Sst-IRES-Cre;Ai14-668017.04.01.02
1263849512	670420	F	P54	Sst-IRES-Cre;Ai14-670420.05.02.02
1263859724	670420	F	P54	Sst-IRES-Cre;Ai14-670420.05.02.03
1263862985	670420	F	P54	Sst-IRES-Cre;Ai14-670420.04.02.01
1264155288	670421	F	P55	Sst-IRES-Cre;Ai14-670421.02.02.01
1264169513	670421	F	P55	Sst-IRES-Cre;Ai14-670421.04.02.02
1264178937	670421	F	P55	Sst-IRES-Cre;Ai14-670421.04.01.03
1265465552	670840	M	P59	Gad2-IRES-Cre;Ai14-670840.03.01.03
1292226393	691516	M	P55	Sst-IRES-Cre;Ai14-691516.03.02.01
1292228465	691516	M	P55	Sst-IRES-Cre;Ai14-691516.02.01.02
1302032290	697390	F	P61	Sst-IRES-Cre;Ai14-697390.03.02.04
1308442147	701492	M	P62	Sst-IRES-Cre;Ai14-701492.04.01.02
1316274680	708512	M	P48	Sst-IRES-Cre;Ai14-708512.05.01.02

1316274718	708512	M	P48	Sst-IRES-Cre;Ai14-708512.05.02.02
1316276295	708512	M	P48	Sst-IRES-Cre;Ai14-708512.06.02.03
1336340778	720303	M	P60	Sst-IRES-Cre;Ai14-720303.03.02.03
1383393561	750124	M	P55	C57BL6J-750124.05.02.02
1383398341	750124	M	P55	C57BL6J-750124.03.02.01
1407403875	769450	F	P58	Gad2-IRES-Cre;Ai14-769450.04.01.02
1413456102	776495	M	P60	Sst-IRES-Cre;Ai14-776495.04.01.01
1413461866	776495	M	P60	Sst-IRES-Cre;Ai14-776495.05.02.02
1413469715	776495	M	P60	Sst-IRES-Cre;Ai14-776495.04.01.03
1413473290	776495	M	P60	Sst-IRES-Cre;Ai14-776495.04.02.02
1416299136	780726	F	P55	Sst-IRES-Cre;Ai14-780726.07.03.01
1417686911	780814	M	P61	Sst-IRES-Cre;Ai14-780814.01.02.02
1417689405	780814	M	P61	Sst-IRES-Cre;Ai14-780814.03.01.01
1417704132	780814	M	P61	Sst-IRES-Cre;Ai14-780814.01.02.04
1417708347	780814	M	P61	Sst-IRES-Cre;Ai14-780814.03.02.03
1418604993	783435	M	P50	Gad2-IRES-Cre;Ai14-783435.03.01.03
637358051	348727	M	P48	Vip-IRES-Cre;Ai14-348727.04.01.02
643536919	355016	M	P39	Chrna2-Cre_OE25;Ai14-355016.05.01.02
676768413	381886	M	P49	Vip-IRES-Cre;Ai14-381886.03.02.01
682135792	383086	M	P57	Vip-IRES-Cre;Ai14-383086.05.02.01
691433482	386651	F	P53	Chat-IRES-Cre-neo;Ai14-386651.03.01.02
694212444	387150	M	P58	Vip-IRES-Cre;Ai14-387150.03.01.03
709436266	395303	M	P54	Vip-IRES-Cre;Npy-IRES2-FlpO;Ai65-395303.03.02.01
714462113	398013	F	P52	Vip-IRES-Cre;Ai14-398013.05.01.02
714485370	398013	F	P52	Vip-IRES-Cre;Ai14-398013.05.02.03
714755043	397651	M	P55	Htr3a-Cre_NO152;Ai14-397651.04.01.02
715140522	398004	F	P53	Vip-IRES-Cre;Ai14-398004.03.01.01
723983069	403931	F	P51	Vip-IRES-Cre;Ai14-403931.05.02.01
738783662	409269	F	P57	Vip-IRES-Cre;Ai14-409269.03.01.02
739680146	407235	F	P62	Vip-IRES-Cre;Ai14-407235.05.01.01
739829029	407479	M	P60	Chrna2-Cre_OE25;Vip-IRES-FlpO;Ai65-407479.05.02.02
741255530	409347	M	P54	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-409347.03.02.01
741270123	409347	M	P54	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-409347.02.02.01
742954364	409679	M	P57	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-409679.05.01.01
742960975	409679	M	P57	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-409679.03.01.02
743458081	409684	F	P58	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-409684.03.01.02
743458377	409684	F	P58	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-409684.04.01.01
744222514	410166	M	P56	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-410166.05.01.02
744405042	410166	M	P56	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-410166.02.02.03
757205480	415022	M	P55	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-415022.02.01.01
757252810	415022	M	P55	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-415022.05.01.03
758058197	415421	M	P54	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-415421.05.02.02
760316107	417327	M	P53	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-417327.04.02.01
760949922	416938	F	P57	Vip-IRES-Cre;Npy-IRES2-FlpO;Ai65-416938.03.02.01
760965714	417331	M	P55	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-417331.05.01.01
760988294	417331	M	P55	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-417331.05.02.01

761820997	417711	M	P57	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-417711.04.02.02
761826348	417711	M	P57	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-417711.03.01.01
764922700	419291	F	P56	Gad2-IRES-Cre;Ai14-419291.03.01.05
780471774	425128	F	P55	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-425128.04.01.01
799776604	432548	F	P49	Snrg-IRES2-FlpO-neo;Ai65F-432548.05.02.01
800276204	433542	M	P48	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-433542.04.01.03
802404053	433542	M	P48	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-433542.05.02.03
803561499	434336	M	P55	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-434336.03.02.01
807349990	435637	F	P55	Vip-IRES-Cre;Ai14-435637.05.01.02
809694067	434588	F	P75	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-434588.05.01.02
828707565	445711	M	P52	Htr3a-Cre_NO152;Ai14-445711.03.02.01
841185744	451336	M	P56	Cck-IRES-Cre;Vip-IRES-FlpO;Ai65-451336.03.01.02
850993746	455018	M	P58	Gad2-IRES-Cre;Ai14-455018.06.02.01
854359267	456104	M	P60	Snrg-IRES2-FlpO-neo;Ai65F-456104.03.01.01
854418891	456104	M	P60	Snrg-IRES2-FlpO-neo;Ai65F-456104.03.01.02
855221359	456105	M	P63	Snrg-IRES2-FlpO-neo;Ai65F-456105.04.01.02
855255407	456105	M	P63	Snrg-IRES2-FlpO-neo;Ai65F-456105.04.01.03
855255710	456105	M	P63	Snrg-IRES2-FlpO-neo;Ai65F-456105.03.02.01
855357345	456104	M	P60	Snrg-IRES2-FlpO-neo;Ai65F-456104.04.01.03
855414991	451115	M	P85	Snrg-IRES2-FlpO-neo;Ai65F-451115.03.01.02
855431538	451115	M	P85	Snrg-IRES2-FlpO-neo;Ai65F-451115.03.01.03
855489548	451115	M	P85	Snrg-IRES2-FlpO-neo;Ai65F-451115.03.02.02
855791035	456107	M	P64	Snrg-IRES2-FlpO-neo;Ai65F-456107.04.01.01
855798106	456107	M	P64	Snrg-IRES2-FlpO-neo;Ai65F-456107.03.01.02
855835289	456107	M	P64	Snrg-IRES2-FlpO-neo;Ai65F-456107.03.01.03
855835410	456107	M	P64	Snrg-IRES2-FlpO-neo;Ai65F-456107.04.01.02
855962521	451117	M	P86	Snrg-IRES2-FlpO-neo;Ai65F-451117.04.01.01
857264868	456109	F	P66	Snrg-IRES2-FlpO-neo;Ai65F-456109.03.01.02
857326083	456109	F	P66	Snrg-IRES2-FlpO-neo;Ai65F-456109.03.01.04
858029990	451119	F	P89	Snrg-IRES2-FlpO-neo;Ai65F-451119.04.01.02
858105502	451119	F	P89	Snrg-IRES2-FlpO-neo;Ai65F-451119.04.01.04
858252803	453077	F	P89	Snrg-IRES2-FlpO-neo;Ai65F-453077.04.02.01
858268431	453077	F	P89	Snrg-IRES2-FlpO-neo;Ai65F-453077.05.02.01
858312027	453077	F	P89	Snrg-IRES2-FlpO-neo;Ai65F-453077.04.02.04
858937670	460304	M	P49	Snrg-IRES2-FlpO-neo;Ai65F-460304.03.01.01
858958151	460304	M	P49	Snrg-IRES2-FlpO-neo;Ai65F-460304.03.01.02
859050969	456110	F	10 wks	Snrg-IRES2-FlpO-neo;Ai65F-456110.04.02.02
859068129	456110	F	10 wks	Snrg-IRES2-FlpO-neo;Ai65F-456110.03.02.01
859640396	460308	F	P50	Snrg-IRES2-FlpO-neo;Ai65F-460308.05.02.01
861740206	460309	F	P52	Snrg-IRES2-FlpO-neo;Ai65F-460309.03.01.01
861765347	460309	F	P52	Snrg-IRES2-FlpO-neo;Ai65F-460309.03.01.02
899739078	472422	M	P55	Vip-IRES-Cre;Ai14-472422.04.01.01
913898432	477022	F	P58	Snrg-IRES2-FlpO-neo;Ai65F-477022.03.02.01
913924619	477022	F	P58	Snrg-IRES2-FlpO-neo;Ai65F-477022.03.02.02
917536372	479903	M	P52	Snrg-IRES2-FlpO-neo;Ai65F-479903.03.01.01
921993647	480220	M	P57	Snrg-IRES2-FlpO-neo;Ai65F-480220.04.02.02

922832877	480221	M	P58	Sncg-IRES2-FlpO-neo;Ai65F-480221.03.02.02
922877472	480221	M	P58	Sncg-IRES2-FlpO-neo;Ai65F-480221.03.02.03
925444752	481162	F	P56	Sncg-IRES2-FlpO-neo;Ai65F-481162.04.01.01
940018318	485419	M	P54	Sncg-IRES2-FlpO-neo;Ai65F-485419.04.01.02
940756541	485420	M	P55	Sncg-IRES2-FlpO-neo;Ai65F-485420.04.01.01
941829567	485421	M	P58	Sncg-IRES2-FlpO-neo;Ai65F-485421.05.01.02
942744962	485430	M	P59	Sncg-IRES2-FlpO-neo;Ai65F-485430.04.01.01
942857102	485430	M	P59	Sncg-IRES2-FlpO-neo;Ai65F-485430.05.02.01
942932431	485430	M	P59	Sncg-IRES2-FlpO-neo;Ai65F-485430.02.02.02
945093559	485432	M	P61	Sncg-IRES2-FlpO-neo;Ai65F-485432.04.01.02
945121810	485432	M	P61	Sncg-IRES2-FlpO-neo;Ai65F-485432.04.02.01
992000431	499188	F	P59	Sncg-IRES2-FlpO-neo;Ai65F-499188.05.02.01
992252579	499189	F	P60	Sncg-IRES2-FlpO-neo;Ai65F-499189.06.01.01
992253295	499189	F	P60	Sncg-IRES2-FlpO-neo;Ai65F-499189.04.02.01
992256615	499189	F	P60	Sncg-IRES2-FlpO-neo;Ai65F-499189.05.01.01
992257502	499189	F	P60	Sncg-IRES2-FlpO-neo;Ai65F-499189.04.01.01
992260209	499189	F	P60	Sncg-IRES2-FlpO-neo;Ai65F-499189.05.01.02
992421687	499190	F	P61	Sncg-IRES2-FlpO-neo;Ai65F-499190.04.02.01
992825872	499191	F	P62	Sncg-IRES2-FlpO-neo;Ai65F-499191.04.02.03
1176802876	626576	M	P52	Gad2-IRES-Cre;Ai14-626576.04.01.02
1211221283	643483	M	P54	Chat-IRES-Cre-neo;Ai14-643483.04.02.01
1211633264	643484	M	P55	Chat-IRES-Cre-neo;Ai14-643484.02.01.02
1211644229	643484	M	P55	Chat-IRES-Cre-neo;Ai14-643484.04.01.01
1211659267	643484	M	P55	Chat-IRES-Cre-neo;Ai14-643484.04.01.02
1308434065	701492	M	P62	Sst-IRES-Cre;Ai14-701492.04.01.01
1418395609	783430	M	P49	Gad2-IRES-Cre;Ai14-783430.04.01.02

Supplementary Table 3. Statistical tests

Pan el	DV	Independ ent Variable	Statistical test	Sample size	Coefficien ts of determina tion (Pseudo-R Square)	Term	Group Median/Mean	Test statistic	p-value
Figu re 2B	f _{res}	Human v Mouse	Two-sample Kolmogorov-Smirnov	Human (n=297), Mouse (n=248)				D = 0.276	p = 1.32e-09
	Q							D = 0.274	p = 2.0843e-09
Figu re 2C	Resonan t proportion	Human Observed v Mouse Expected	Chi-square test	Human (n=297), Mouse (n=248)				χ^2 (1) = 43.05	p=5.3457e-11
Figu re 2D				human obs = [45, 99]; exp (mouse) = [13.2, 130.8]				LAMP5: χ^2 (1) = 84.34	p=4.1654e-20
				human obs = [15, 45] exp (mouse) = [1.22, 58.78]				VIP: χ^2 (1) =158.20	p=2.7942e-36
				human obs = [34, 44] exp (mouse) = [10.83, 67.17]				PV: χ^2 (1) =57.53	p=3.3261e-14
				human obs = [3, 12] exp (mouse) = [2.09, 12.91]			SST: χ^2 (1) =0.46	p=0.49914	
Figu re 2E	f _{res}	Species x Subclass	Linear Mixed-Effects (LME) models (Fixed: Species, Subclass, Vm; Random: Donor)	n=286 (92 human donors); n=245 (137 mice)	Marginal: 0.187; Conditional: 0.365	Interce pt		F(1, 521.81) = 10.62	p = 0.001
				Namin g			F(3, 390.247) = 17.63	p = 9.8234E-11	
						Specie s		F(1, 189.5) = 10.34	p = 0.002
						Namin g * Specie s		F(3, 385.8) = 4.24	p = 0.006
						Vm		F(1, 522) = 0.568	p = 0.451
		Human v Mouse	Post-hoc Mann-Whitney U test	LAMP5: n = 144 human; n = 120 mouse		Mdn _H = 1.09; Mdn _M = 1.15	U = 7717.00		p = 0.133
				VIP: n = 60 human; n = 49 mouse		Mdn _H = 0.95; Mdn _M = 0.40	U = 756.50		p = 0.000002935796592
				PV: n = 78 human; n = 36 mouse		Mdn _H = 2.18; Mdn _M = 1.30	U = 925.00		p = 0.003
				SST: n = 15 human; n = 43 mouse		Mdn _H = 0.40; Mdn _M = 0.40	U = 301.50		p = 0.701
Figu re 2F	f _{3 dB}	Species x Subclass	Linear Mixed-Effects (LME) models	n=286 (92 human donors); n=245 (137 mice)	Marginal: 0.406;	Interce pt		F(1, 521.87) = 17.87	p = 0.000027944073682

			(Fixed: Species, Subclass, Vm; Random: Donor)		Conditional: 0.559	Naming	F(3, 378.09) = 65.99	p = 2.4669E-34
						Species	F(1, 186.20) = 37.16	p = 6.1254E-9
						Naming * Species	F(3, 384.02) = 13.97	p = 1.1644E-8
						Vm	F(1, 521.25) = 0.003	p = .955
		Human v Mouse	Post-hoc Mann-Whitney U test	LAMP5: n = 144 human; n = 120 mouse VIP: n = 60 human; n = 49 mouse PV: n = 78 human; n = 36 mouse SST: n = 15 human; n = 43 mouse		Mdn _H = 7.36; Mdn _M = 15.20 Mdn _H = 6.90; Mdn _M = 6.75 Mdn _H = 13.03; Mdn _M = 20.86 Mdn _H = 3.95; Mdn _M = 6.85	U = 15460.00 U = 1600.50 U = 2332.50 U = 454.00	p < 0.0001 p = 0.426623980329606 p = 0.000000015109 p = 0.01952553252805
Figure 2G	Q	Species x Subclass	Linear Mixed-Effects (LME) models (Fixed: Species, Subclass, Vm; Random: Donor)	n=286 (92 human donors); n=244 (137 mice)	Marginal: 0.093; Conditional: 0.190	Intercept	F(1, 513.23) = 960.97	p = 1.1154E-119
						Naming	F(3, 374.85) = 0.47	p = .707
						Species	F(1, 188.00) = 24.31	p = 0.000001792685896
						Naming * Species	F(3, 378.27) = 1.58	p = .194
						Vm	F(1, 515.45) = 0.38	p = .537
		Human v Mouse	Post-hoc Mann-Whitney U test	LAMP5: n = 144 human; n = 119 mouse VIP: n = 60 human; n = 49 mouse PV: n = 78 human; n = 36 mouse SST: n = 15 human; n = 43 mouse		Mdn _H = 1.013; Mdn _M = 1.008 Mdn _H = 1.008; Mdn _M = 1.001 Mdn _H = 1.04; Mdn _M = 1.008 Mdn _H = 1.001; Mdn _M = 1.003	U = 6,245.50, z = -3.78 U = 960.50, z = -3.10 U = 734.00, z = -4.08 U = 368.00, z = 0.81	p = 0.000154686012058 p = 0.002 p = 0.000044209312894 p = 0.419
Figure 3C	Sag ratio	Species x Subclass	Linear Mixed-Effects (LME) models (Fixed: Species, Subclass, Vm; Random: Donor)	n = 541 (130 human donors); n = 619 (289 mice)	Marginal: 0.278; Conditional: 0.383	Intercept	F(1, 1151.00) = 58.84	p = 3.6239E-14
						Naming	F(3, 847.81) = 14.29,	p = 4.3006E-9

						Species	F(1, 480.95) = 135.38	p = 9.6535E-28
						Naming * Species	F(3, 848.14) = 8.33	p = 0.00001842879236
						Vm	F(1, 1149.80) = 10.84	p = 0.001025412980151
		Human v Mouse	Post-hoc Mann-Whitney U test	LAMP5: Human (n = 276) vs Mouse (n = 435)		MdnH = 0.113; MdnM = 0.044	U = 24,305.00, z = -13.39	p < 0.0001
				VIP: Human (n = 114) vs Mouse (n = 101)		MdnH = 0.177; MdnM = 0.050	U = 1,678.00, z = -8.96	p < 0.0001
				PV: Human (n = 130) vs Mouse PV (n = 39)		MdnH = 0.106; MdnM = 0.031	U = 1,096.00, z = -5.37	p = 7.9014E-8
				SST: Human (n = 22) vs Mouse (n = 44)		MdnH = 0.184; MdnM = 0.074	U = 246.00, z = -3.24	p = 0.001206363783076
Figure 3D	Input resistance	Species x Subclass	Linear Mixed-Effects (LME) models (Fixed: Species, Subclass, Vm; Random: Donor)	n = 541 (130 human donors); n = 619 (289 mice)	Marginal: 0.409; Conditional: 0.521	Intercept	F(1, 1151) = 181.85	p = 1.3789E-38
						Naming	F(3, 849.43) = 92.12	p = 1.2885E-51
						Species	F(1, 469.44) = 27.43	p = 2.464E-7
						Naming * Species	F(3, 849.85) = 25.64	p = 6.9294E-16
						Vm	F(1, 1151.00) = 37.47	p = 1.2697E-9
		Human v Mouse	Post-hoc Mann-Whitney U test	LAMP5: Human (n = 276) vs Mouse (n = 435)		MdnH = 231.26; MdnM = 125.87	U = 10,308.00, z = -18.63	p < 0.001
				VIP: Human (n = 114) vs Mouse (n = 101)		MdnH = 277.61; MdnM = 309.52	U = 6,217.00, z = 1.01	p = 0.312
				PV: Human (n = 130) vs Mouse (n = 39)		MdnH = 151.45; MdnM = 112.35	U = 1,476.00, z = -3.95	p < 0.001
				SST: Human (n = 22) vs Mouse (n = 44)		MdnH = 247.11; MdnM = 181.37	U = 366.00, z = -1.61,	p = 0.108
Figure 3E, G	f _{res}	Sag x IR x Subclass	Linear Mixed-Effects (LME) models (Fixed: Sag ratio, IR, Subclass; Random: Donor)	n = 287 (92 human donors)	Marginal: 0.372; Conditional: 0.647	Intercept	F(1, 255.868) = 49.870	p = 1.5465E-11
						Naming	F(3, 256.279) = 6.251	4E-04
						IR	F(1, 265.011) = 27.486	#####

					IR * Namin g	F(3, 255.621) = 3.052	p = 0.029
					Sag	F(1, 270.559) = 51.828	#####
					Sag * Namin g	F(3, 254.894) = 2.912	p = 0.35
		Sag x Subclass	Linear Mixed- Effects (LME) models (Fixed: Sag ratio; Random: Donor)	LAMP5	Marginal: 0.239; Condition al: 0.493	IR Sag	b = - .002, SE = .001, t(131.08 0) = - 3.620 b = 3.305, SE = .633, t(128.06 8) = 5.220 p = 0.00042008711 6897 p = 7.0287E-7
				VIP	Marginal: 0.195; Condition al: 0.757	IR Sag	b = - .002, SE = .001, t(28.397) = -1.768 b = 4.788, SE = 1.244, t(51.550) = 3.847 p = 0.00033037261 1104
				PV	Marginal: 0.289; Condition al: 0.289	IR Sag	b = - .006, SE = .002, t(75) = - 3.470 b = 6.134, SE = 1.355, t(75) = 4.526 p = 0.00086678657 5478 p = 0.00002217176 5665
				SST	Marginal: 0.171; Condition al: 0.942	IR Sag	b = - .002, SE = .002, t(10.308) = -1.274 b = 1.605, SE = 1.808, t(11.249) = .887 p = .231 p = 0.393
Figure 3F, H	f _{res}	Sag x IR x Subclass	Linear Mixed- Effects (LME) models (Fixed: Sag ratio, IR, Subclass; Random: Donor)	n = 245 (137 mice)	Marginal: 0.152; Condition al: 0.212	Interce pt Namin g IR IR * Namin g Sag	F(1, 228.906) = 36.233 F(3, 224.005) = 1.503 F(1, 221.377) = 5.263 F(3, 216.592) = 0.535 F(1, 232.375) = 2.525 ##### 0.215 0.023 0.659 0.113

						Sag * Namin g	F(3, 225.129) = 0.977	0.404
Figure 3I, K	Q	Sag x IR x Subclass	Linear Mixed-Effects (LME) models (Fixed: Sag ratio, IR, Subclass; Random: Donor)	n = 287 (92 human donors)	Marginal: 0.257; Conditional: 0.350	Intercept	F(1, 244.629) = 3618.134	#####
						Namin g	F(3, 274.103) = 0.102	0.959
						IR	F(1, 274.797) = 7.966	0.005
						IR * Namin g	F(3, 274.825) = 0.502	0.681
						Sag	F(1, 269.086) = 60.275	#####
						Sag * Namin g	F(3, 272.054) = 1.801	0.147
Figure 3J, L	Q	Sag x IR x Subclass	Linear Mixed-Effects (LME) models (Fixed: Sag ratio, IR, Subclass; Random: Donor)	n = 244 (137 mice)	Marginal: 0.072; Conditional: 0.110	Intercept	F(1, 221.396) = 12424.238	#####
						Namin g	F(3, 214.906) = 0.199	0.897
						IR	F(1, 204.982) = 0.052	0.82
						IR * Namin g	F(3, 201.783) = 0.408	0.748
						Sag	F(1, 230.028) = 5.380	0.021
						Sag * Namin g	F(3, 217.812) = 0.404	0.75
Figure 4B	Pia-soma distance	TDL	LME (Fixed: TDL; Random: donor)	Human: n = 61 (28 donors)	Marginal: 0.137; Conditional: 0.421	Intercept	b = 1632.017, SE = 383.230, t(54.573) = 4.259	8E-05
						Pia-soma distance	b = 1.350, SE = .408, t(56.294) = 3.305	0.002
Figure 4C	Sag	Pia-soma	LME (Fixed: pia-soma, subclass; Random: donor)	Human: $n_{LAMP5} = 218$, $n_{VIP} = 107$, $n_{PV} = 106$, $n_{SST} = 18$; from 93 donors	Marginal: 0.173; Conditional: 0.331	Intercept	F(1, 438.391) = 212.528	#####
						Piasoma	F(1, 415.450) = 42.057	#####

					Naming	F(3, 423.221) = 17.732	#####
					Naming * Piasoma	F(3, 422.347) = 7.962	4E-05
		LME (Fixed: pia-soma; Random: donor)	n _{LAMP5} = 218	Marginal: 0.049; Conditional: 0.265	Piasoma	F(1, 203.49) = 10.62	p = 0.001
			n _{VIP} = 107	Marginal: 0.062; Conditional: 0.358	Piasoma	F(1, 101.84) = 7.24	p = 0.008
			n _{PV} = 106	Marginal: 0.004; Conditional: 0.482	Piasoma	F(1, 84.64) = .51	p = .478
			n _{SST} = 18	Marginal: 0.464; Conditional: 0.970	Piasoma	F(1, 13.65) = 14.58	p = 0.002
Figure 4D	IR	LME (Fixed: pia-soma, subclass; Random: donor)	Human: nLAMP5 = 218, nVIP = 107, nPV = 106, nSST = 18; from 93 donors	Marginal: 0.189; Conditional: 0.338	Intercept	F(1, 438.405) = 114.448	p = 6.8844E-24
					Piasoma	F(1, 417.359) = 2.286	p = 0.131
					Naming	F(3, 424.213) = 5.210	p = 0.002
					Naming * Piasoma	F(3, 423.796) = 1.719	p = 0.162
Figure 4E	fres	LME (Fixed: pia-soma, subclass; Random: donor)	nLAMP5 = 110, nVIP = 56, nPV = 57, nSST = 11 from 64 donors)	Marginal: 0.229; Conditional: 0.506	Intercept		
					Piasoma	F(1, 178.51) = 3.269	p = .072
					Naming	F(3, 194.92) = 2.971	p = .033
					Naming * Piasoma	F(3, 191.57) = 1.220	p = .304
Figure 4F	f3 dB	LME (Fixed: pia-soma, subclass; Random: donor)	nLAMP5 = 110, nVIP = 56, nPV = 57, nSST = 11 from 64 donors)	Marginal: 0.378; Conditional: 0.289	Intercept		
					Piasoma	F(1, 169.60) = 0.394	p = .531
					Naming	F(3, 187.84) = 2.807	p = .041
					Naming * Piasoma	F(3, 183.85) = 0.626	p = .599
Figure 4G	Q	LME (Fixed: pia-soma, subclass;	nLAMP5 = 110, nVIP = 56, nPV = 57, nSST = 11 from 64 donors)	Marginal: 0.049;	Intercept		

		Random: donor)		Conditional: 0.168	Piasoma	F(1, 192.77) = 4.741	p = .031
					Naming	F(3, 199.33) = 2.782	p = .042
					Naming * Piasoma	F(3, 207.31) = 1.342	p = .262
Figure 4I	Sag ratio	LME (Fixed: pia-soma, subclass; Random: donor)	n _{LAMP5} = 391, n _{VIP} = 90 from 228 mice	Marginal: 0.043; Conditional: 0.059	Intercept		
					Piasoma	F(1, 469.40) = 12.526	p < .001
					Naming	F(1, 424.70) = 4.809	p = .029
					Naming * Piasoma	F(1, 473.46) = 1.762	p = .185
Figure 4J	IR	LME (Fixed: pia-soma, subclass; Random: donor)		Marginal: 0.539; Conditional: 0.575	Intercept		
					Piasoma	F(1, 470.74) = 2.392	p = .123
					Naming	F(1, 417.60) = 170.106	p = 7.4509E-33
					Naming * Piasoma	F(1, 474.62) = 0.546	p = .461
Figure 4K	fres	LME (Fixed: pia-soma, subclass; Random: donor)	n _{LAMP5} = 105, n _{VIP} = 41	Marginal: 0.189; Conditional: 0.189	Intercept		
					Piasoma	F(1, 142) = 0.075	p = .784
					Naming	F(1, 142) = 10.835	p = .001
					Naming * Piasoma	F(1, 142) = 0.002	p = .960
Figure 4L	f3 dB	LME (Fixed: pia-soma, subclass; Random: donor)		Marginal: 0.421; Conditional: 0.721	Intercept		
					Piasoma	F(1, 103.60) = 0.995	p = .321
					Naming	F(1, 140.80) = 31.491,	p < .001
					Naming * Piasoma	F(1, 103.69) = 0.585	p = .446

Figure 4M	Q		LME (Fixed: pia-soma, subclass; Random: donor)		Marginal: 0.075; Conditional: 0.137	Intercept			
						Piasoma	F(1, 140.28) = 1.550	p = .215	
						Naming	F(1, 138.86) = 1.157	p = .284	
						Naming * Piasoma	F(1, 138.91) = 0.525	p = .470	
Figure 5B	Sag	ZD7288 Pre-Post	Wilcoxon matched-pairs signed rank test					ΔMdn = -0.26	p = 0.004
Figure 5C	IR							ΔMdn = 74.95	p = 0.004
Figure 5D	f _{res}							ΔMdn = -2.065	p = 0.03
Figure 5E	Q								p = 0.03
Figure 5G	Sag ratio		Post-hoc Mann-Whitney U test	LAMP5 (N _{acute} = 276, N _{culture} = 40)		MdnAcute = .11; MdnCulture = .26	U = 8237.00, Z = 5.03	#####	
				VIP (N _{acute} = 114, N _{culture} = 52)		MdnAcute = .18; MdnCulture = .14	U = 2414.00, Z = -1.92	0.056	
				PVALB (N _{acute} = 130, N _{culture} = 277)		MdnAcute = .11; MdnCulture = .28	U = 31851.00, Z = 12.51	#####	
				SST (N _{acute} = 22, N _{culture} = 174)		MdnAcute = .18; MdnCulture = .29	U = 2239.00, Z = 1.30	0.195	
Figure 5H	IR	Prep x Subclass	Post-hoc Mann-Whitney U test	LAMP5 (N _{acute} = 276, N _{culture} = 40)		MdnAcute = 231.26; MdnCulture = 223.35	U = 4237.00, Z = -2.38	p = .018	
				VIP (N _{acute} = 114, N _{culture} = 52)		MdnAcute = 277.61; MdnCulture = 277.87	U = 2866.00, Z = -.34	p = .733	
				PVALB (N _{acute} = 130, N _{culture} = 277)		MdnAcute = 151.45; MdnCulture = 150.03	U = 18533.50, Z = .48	p = .633	
				SST (N _{acute} = 22, N _{culture} = 174)		MdnAcute = 247.11; MdnCulture = 229.44	U = 1727.00, Z = -.75	p = .456	
Figure 5I	Resonant proportion	Acute v Culture	Chi-square test					All: χ^2 (1) = 44.98, p < 0.001)	
								LAMP5 (χ^2 (1) = 9.19, p = 0.002)	
								PV (χ^2 (1) = 79.76, p < 0.001)	

				SST (χ^2 (1) = 27.13, p < 0.001)					
				VIP (χ^2 (1) = 0, p = 0.100)					
Figure 5J	f _{res}	Acute v Culture	Post-hoc Mann-Whitney U test	LAMP5 (N_acute = 144, N_culture = 21)	MdnAcute = 1.09; MdnCulture = 2.40	U = 2061.00, Z = 2.69	p = .007		
				VIP: (N_acute = 60, N_culture = 28)	MdnAcute = 2.18; MdnCulture = 3.20	U = 703.00, Z = -1.25	p = .212		
				PVALB (N_acute = 78, N_culture = 125)	MdnAcute = .40; MdnCulture = 1.05	U = 6766.50, Z = 4.65	p = 0.000003371989739		
				SST (N_acute = 15, N_culture = 94)	MdnAcute = .95; MdnCulture = .40	U = 883.00, Z = 1.58	p = .115		
Figure 5K	Q	Acute v Culture	Post-hoc Mann-Whitney U test	LAMP5 (N_acute = 144, N_culture = 21)	LAMP5/PAX6/Other: MdnAcute = 1.01; MdnCulture = 1.09	U = 2151.00, Z = 3.13	p = .002		
				VIP: (N_acute = 60, N_culture = 28)	MdnAcute = 1.01; MdnCulture = 1.00	U = 858.00, Z = .16	p = .872		
				PVALB (N_acute = 78, N_culture = 125)	MdnAcute = 1.04; MdnCulture = 1.17	U = 7998.00, Z = 7.67	p = 1.7097E-14		
				SST (N_acute = 15, N_culture = 94)	MdnAcute = 1.00; MdnCulture = 1.02	U = 964.00, Z = 2.28	p = .023		
Figure 5L	f _{3dB}	Prep x Subclass	Post-hoc Mann-Whitney U test	LAMP5 (N_acute = 144, N_culture = 21)	MdnAcute = 7.36; MdnCulture = 9.75	U = 1795.50, Z = 1.3	p = .166		
				VIP (N_acute = 60, N_culture = 28)	MdnAcute = 6.90; MdnCulture = 4.55	U = 617.00, Z = -2.00	p = .046		
				PVALB (N_acute = 78, N_culture = 125)	MdnAcute = 13.03; MdnCulture = 11.25	U = 3995.50, Z = -2.16	p = .031		
				SST (N_acute = 15, N_culture = 94)	MdnAcute = 3.95; MdnCulture = 5.63	U = 885.50, Z = 1.59	p = .112		
Figure 6A	HCN1 expression ln(CPM + 1)	Human v Mouse	Linear mixed-effects model: ln(CPM + 1) ~ species + (1 donor)	Human = 4,164 nuclei (8 donors), Mouse = 10,534 cells (210 mice)				t = 3.09	p = 0.002 (BH)
								t = -8.39	p = 0.002 (BH)
								t = -5.81	p = 6.22 × 10-9 (BH)
								t = 14.57	p = 2.19 × 10-47 (BH)

	PEX5L expressi on ln(CPM + 1)							t = 13.58	p = 1.26 × 10 ⁻⁴¹ (BH)
Figure 6B	Q	KCNJ16	Pearson's correlations	204				r = 0.27913 416	0.00105548 (FDR-corrected)
	f _{res}	KCNJ16		204				r = 0.20158 966	0.038
	f _{res}	HCN1		240				r = 0.17391 655	0.044
	f _{res}	CACNA1 A		254				r = 0.16418 567	0.044
	Q	KCNQ3		255				r = - 0.11547 84	0.245
	f _{res}	SCN8A		238				r = 0.11618 833	0.245
	f _{res}	KCNQ5		241				r = - 0.10105 53	0.336
	Q	KCNH7		217				r = - 0.07911 39	0.593
	Q	HCN1		240				r = 0.06836 804	0.593
	f _{res}	KCNQ3		255				r = - 0.06465 07	0.593
	Q	SCN8A		238				r = 0.06389 317	0.593
	Q	KCNQ5		241				r = - 0.05936 03	0.598
	Q	SCN1A		227				r = - 0.05403 56	0.643
	Q	CACNA1 A		254				r = 0.03157 5	0.881
	Q	KCNQ2		210				r = - 0.02639 91	0.929
	f _{res}	KCNH7		217				r = - 0.02234 75	0.929
	f _{res}	SCN1A		227				r = - 0.01488 94	0.969
	Q	CACNA1 G		195				r = 0.01054 321	0.982

	f _{res}	KCNQ2		210				r = 0.00410346	0.987
	f _{res}	CACNA1G		195				r = -0.0011776	0.987
Figure S1E	Sag ratio	Main effect: Brain regions	Kruskal-Wallis test					KW = 19.53, p < 0.001	
Figure S1E	Sag ratio	Temporal v frontal						KW = 490.06, p = 0.022	
Figure S1E	Sag ratio	Temporal v occipital						KW = 195.49, p = 0.011	
Figure S1F	IR	Main effect: Brain regions						KW = 3.72, p = .293	
Figure S1G	f _{res}	Main effect: Brain regions						KW = 5.91, p = .116	
Figure S1H	Q	Main effect: Brain regions						KW = 5.90, p = .117	
Figure S1I	f _{3 dB}	Main effect: Brain regions						KW = 1.34, p = .719	
Figure S1J	Sag ratio	Tumour v Epilepsy	Mann-Whitney U tests					U = 4845, p < 0.001	
	IR							U = 8207, p = .780	
	f _{res}							U = 2757, p = .218	
	Q							U = 2543, p = .664	
	f _{3 dB}							U = 2611, p = .493	
Figure S2C	SFA ratio	Human v Mouse	Two-sample Kolmogorov-Smirnov test	Human: 20 cells (9 patients) Mouse: 22 cells (18 mice)				D = 0.59	0.001
Figure S2D	f-I slope (Hz/pA)							D = 0.26	0.483
Figure S2E	Maximum firing rate (Hz)							D = 0.26	0.527
Figure S2F	AHP amplitude (mV)							D = 0.21	0.749
Figure S2G	AP halfwidth (ms)							D = 0.47	0.020

Figure S2H	AP up-/downstroke ratio							D = 0.31	0.254
Figure S2L	Sag ratio	ZD7288 Pre-Post	Wilcoxon signed-rank test	Mouse = 13 paired cells (9 mice)				V = 83	p = 0.010
Figure S2M	IR							V = 16	p = 0.043
Figure S2N	Q							V = 21	p = 0.036
Figure S2O	f _{res}							V = 80	p = 0.022
Figure S2P	f _{3 dB}							V = 28	p = 0.017
Figure S4A	Q	HCN1	Pearson's correlations (w/FDR-corrected P values)	207				0.179	0.158
	f _{res}	CACNA1G		149				-0.19	0.158
	f _{res}	HCN1		207				0.157	0.158
	Q	CACNA1G		149				-0.14	0.323
	Q	CACNA1A		223				0.117	0.323
	Q	KCNQ3		217				0.091	0.606
	f _{res}	KCNQ5		203				-0.08	0.706
	Q	KCNQ2		157				0.077	0.763
	f _{res}	KCNH7		173				0.069	0.763
	Q	SCN1A		186				0.055	0.763
	Q	KCNQ5		203				0.052	0.763
	f _{res}	SCN1A		186				0.05	0.763
	f _{res}	KCNQ2		157				-0.04	0.794

	Q	KCNJ16		181				0.042	0.763
	f _{res}	CACNA1A		223				0.046	0.763
	Q	SCN8A		209				0.041	0.763
	Q	KCNH7		173				-0.01	0.903
	f _{res}	KCNJ16		181				-0.01	0.93
	f _{res}	KCNQ3		217				0.026	0.821
	f _{res}	SCN8A		209				0.018	0.889
Figure S4B	Q	HCN2	Pearson's correlations (w/FDR-corrected P values)	168				0.265	0.015
	f _{res}	CACNA1A		218				0.157	0.284
	f _{res}	HCN2		169				0.099	0.956
	f _{res}	KCNQ2		226				0.082	0.956
	f _{res}	SCN1A		230				0.074	0.956
	Q	HCN4		29				-0.2	0.956
	Q	KCNJ16		39				0.145	0.956
	f _{res}	HCN4		29				-0.16	0.956
	Q	CACNA1A		217				0.055	0.956
	f _{res}	CACNA1H		71				-0.09	0.956
	f _{res}	KCNJ16		39				-0.12	0.956
	f _{res}	HCN3		101				0.074	0.956

	Q	KCNQ5		244				-0.04	0.956
	Q	SCN1A		229				0.041	0.956
	f _{res}	HCN1		227				0.039	0.956
	Q	HCN3		101				-0.05	0.956
	Q	KCNQ2		225				-0.02	0.956
	f _{res}	CACNA1G		188				0.025	0.956
	f _{res}	KCNQ5		245				0.02	0.956
	f _{res}	KCNJ2		32				-0.05	0.956
	Q	KCNJ2		32				0.046	0.956
	Q	HCN1		226				0.015	0.956
	Q	CACNA1G		187				-0.02	0.956
	Q	CACNA1H		71				-0.02	0.956
	Q	KCNQ3		220				-0.01	0.956
	f _{res}	CACNA1I		65				-0.01	0.956
	f _{res}	KCNQ3		221				0.007	0.956
	Q	CACNA1I		64				-0.01	0.965
S2	Q	Piasoma	LME (Fixed: pia-soma; Random: donor)	Human L2/3 INs: 57	Marginal: 0.011; Conditional: 0.011	Piasoma		F(1, 55) = 0.64	p = 0.427
	f _{res}				Marginal: 0.033; Conditional: 0.162	Piasoma		F(1, 53.33) = 1.85	p = 0.179
	f _{3 dB}				Marginal: 0.179; Conditional: 0.158	Piasoma		F(1, 54.37) = 7.54	p = 0.008

Sag	Human L2/3 INs: 114	Marginal: 0.069; Condition al: 0.097	Piaso ma	F(1, 91.39) = 8.21	p = 0.005
IR		Marginal: 0.162; Condition al: 0.300	Piaso ma	F(1, 110.29) = 21.54	p = 0.00000962610 6313

Supplementary Table 4

Age (years)	Sex	Diagnosis	Resection location (Hemisphere)	Baseline, <i>n</i>	Blocker experiment	Drug, <i>n</i>
71	Male	Tumour	Parietal (Right)	2	ZD7288	2
66	Male	Tumour	Frontal (Right)	3	ZD7288	2
65	Male	Tumour	Frontal (Left)	2	ZD7288	1
26	Female	Tumour	Temporal-Insular (Right)	3	ZD7288	2
36	Male	Tumour	Mesiotemporal (Left)	2	ZD7288	1
56	Male	Tumour	Frontal (Right)	2	TTA-P2	1
45	Male	Epilepsy	Temporal (Right)	1	None	0
72	Male	Tumour	Parietal (Left)	1	None	0
59	Male	Tumour	Mesiotemporal (Left)	4	TTA-P2	2

Human patient demographics (9 donors; 20 baseline cells). “Baseline, *n*” denotes the total number of interneurons included in baseline human–mouse comparisons; “Drug, *n*” denotes the subset of these cells subsequently exposed to the indicated blocker.

Supplementary Table 5. Parameters used in the model

Parameter	Location	Value
Passive conductance density	Dendritic	0.003 pS/um ⁻²
	Somatic	30.545 pS/um ⁻²
	Axonal	9.663 pS/um ⁻²
Na ⁺ conductance density	Dendritic	83.309 pS/um ⁻²
	Somatic	405.812 pS/um ⁻²
	Axonal	1728.496 pS/um ⁻²
K ⁺ conductance density	Dendritic	54.240 pS/um ⁻²
	Somatic	505.077 pS/um ⁻²
	Axonal	161.576 pS/um ⁻²
HCN channel conductance density	Dendritic	8.367 pS/um ⁻²
	Somatic	3.716 pS/um ⁻²
	Axonal	6.722 pS/um ⁻²
Left shift of Na ⁺ channels	Axonal	-9.38 mV

Morphological definitions

Model	Stems	Start diameter	End diameter	Dendritic Branch Length	Dendritic Leaf Length
Reference	5	0.735	0.575	20	135
Human	5	1.01	0.73	12	215
Mouse	7	0.70	0.56	24	72

Firing protocols

Sine discrimination protocol	<i>Sd</i>	<i>I</i> ₀ (pA)	<i>I</i> ₁ (pA)	Cycles	<i>f</i>	Trials
Conductances Human +Ih+Ca Human -Ih-Ca Human +Ih-Ca	0.1	50	50	10	1	5
					5	100
					7	140
					10	200

Morphologies Mouse +Ih+Ca Mouse -Ih-Ca Average +Ih+Ca Human +Ih-Ca					12	240
					20	400
					1	5
					5	100
					7	140
					10	200
					12	240
					20	400
					30	600
					40	800
					50	1000
	0.08	50	60	10		

Scaled conductances by morphological model

Parameter	Location	Mouse morphology	Average morphology (x 0.822)	Human Morphology (x0.428)
Passive conductance density	Dendritic	0.003	0.002466	0.00128619
	Somatic	30.545	30.545	30.545
	Axonal	9.663	9.663	9.663
Na ⁺ conductance density	Dendritic	83.309	68.479998	35.71706757
	Somatic	405.812	405.812	405.812
	Axonal	1728.496	1728.496	1728.496
K ⁺ conductance density	Dendritic	54.240	44.58528	23.2543152
	Somatic	505.077	505.077	505.077
	Axonal	161.576	161.576	161.576
HCN channel conductance density	Dendritic	8.367	6.877674	3.58718391
	Somatic	3.716	3.716	3.716
	Axonal	6.722	6.722	6.722
Left shift of Na ⁺ channels	Axonal	-9.38 mV	-9.38 mV	-9.38 mV

number of trials varied by stimulus frequency (see Methods). Resulting normalized modulation index (M/R) (b), signal gain (M/I) (c), and phase of signal gain (Φ) (d) are shown across stimulus frequencies for each model.

e-k. Morphological features of a fast-spiking interneuron model were varied in dendritic size and complexity, approximating mouse-like and human-like idealized morphologies alongside their respective I_h conductance maps (e, left).

Corresponding voltage responses to logarithmic chirp stimuli (0.4–40 Hz; 65 s) (e, right) and impedance profiles (f) are shown. Input resistance (R_{in}) (g), sag ratio (h), peak resonance frequency (f_{res}) (i), resonance strength (Q) (j), and 3 dB cutoff frequency (k) are depicted for each model.