

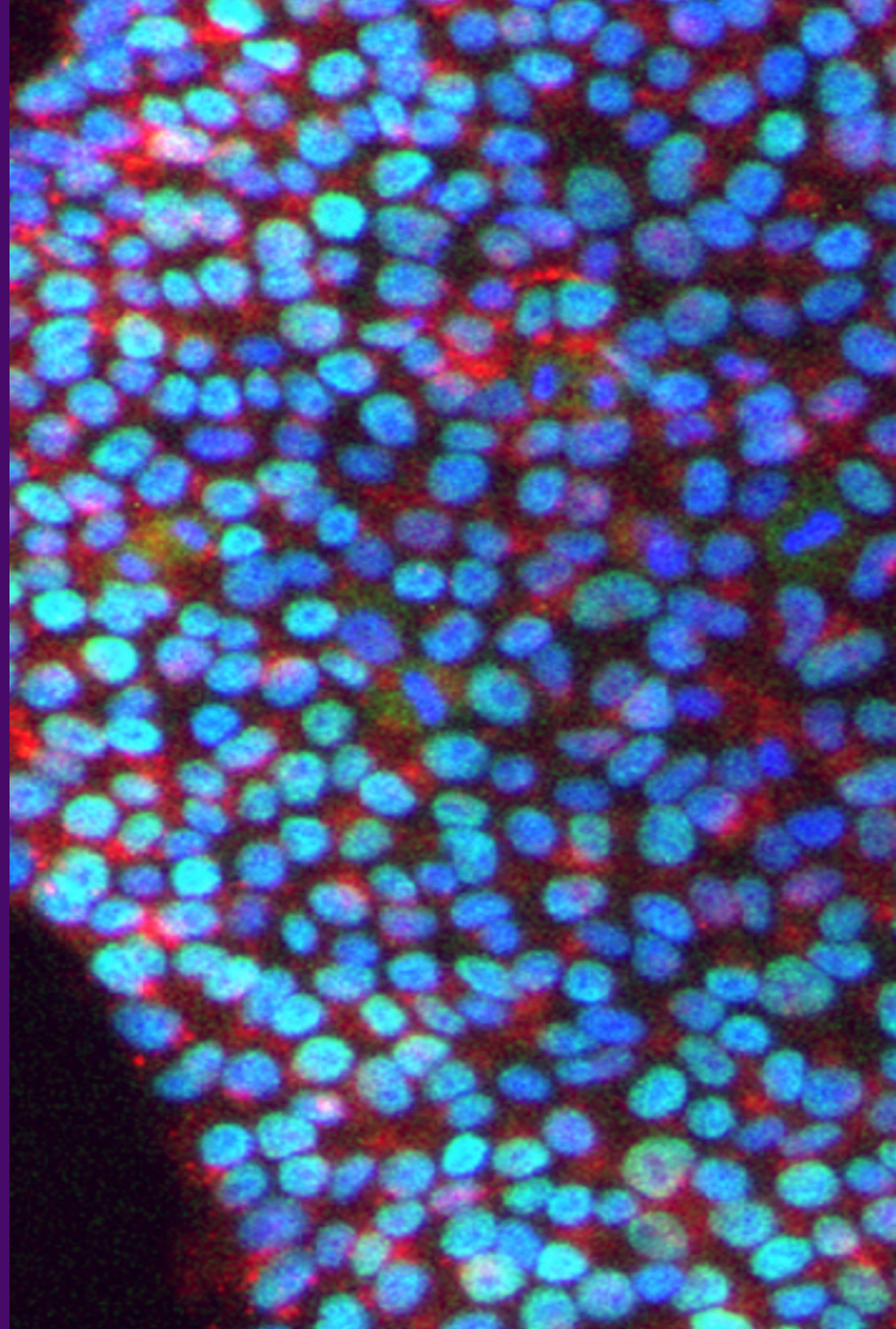
**The Neuro's Early Drug
Discovery Unit**

iPSC Catalog

Last modified: July 2025



C-BIG



ABOUT US

The Clinical, Biological, Imaging and Genetics (C-BIG) Repository and the Early Drug Discovery Unit (EDDU) at The Neuro (Montreal Neurological Institute-Hospital) are central to its Open Science mission, accelerating discovery through open sharing of data, samples, and expertise. C-BIG is both a biobank and patient registry, operating under an Open Science ethical and legal framework focused on transparency, accessibility, and participant partnership. Since 2016, it has enrolled over 5,200 participants and shared data with 110+ academic and industry partners worldwide. It offers open-access, multimodal data—clinical, imaging, genetic, and biospecimen from individuals with neurological conditions and healthy controls.

Closely integrated with C-BIG, the EDDU specializes in stem cell-based disease modeling, providing over 225 patient-derived iPSC lines for use in neural and organoid systems. The EDDU supports academic and industry research through high-content screening, single-cell sequencing, CRISPR editing, and custom assays. Committed to open training, it has trained over 400 users and shares multilingual protocols and videos to expand global stem cell expertise. EDDU-led research has advanced understanding of synucleinopathies and Parkinson's disease.

Together, C-BIG and the EDDU exemplify how Open Science drives innovation, fosters global collaboration, and accelerates therapeutic development in neurology.



HEALTHY CONTROL

CELL LINE NAME	CELL LINE STATUS	SEX	PATIENT AGE (years)	MATERIAL SOURCE	TYPE OF REPROGRAMMING
IPSC0063	Ready to Ship	MALE	37	PBMC	SENDAI VIRUS
IPSC0064	Ready to Ship	MALE	37	FIBROBLAST	SENDAI VIRUS
IPSC0087	Ready to Ship	MALE	44	PBMC	SENDAI VIRUS
IPSC0125	Ready to Ship	MALE	37	PBMC	EPISOMAL
IPSC0038	Ready to Ship	MALE	48	PBMC	EPISOMAL
IPSC0043	Ready to Ship	MALE	37	PBMC	EPISOMAL
IPSC0035	Ready to Ship	FEMALE	48	PBMC	EPISOMAL
IPSC0088	Ready to Ship	MALE	44	PBMC	EPISOMAL
IPSC0095	Ready to Ship	MALE	59	PBMC	EPISOMAL
IPSC0044	Ready to Ship	MALE	64	PBMC	EPISOMAL
IPSC0016	Ready to Ship	FEMALE	58	PBMC	EPISOMAL
IPSC0022	Ready to Ship	FEMALE	67	PBMC	EPISOMAL
IPSC0045	Ready to Ship	MALE	61	PBMC	EPISOMAL
IPSC0046	Ready to Ship	MALE	68	PBMC	EPISOMAL
IPSC0036	Ready to Ship	MALE	59	PBMC	EPISOMAL
IPSC0023	Available upon Request	FEMALE	48	PBMC	EPISOMAL
IPSC0025	Available upon Request	FEMALE	52	PBMC	EPISOMAL
IPSC0034	Available upon Request	FEMALE	50	PBMC	EPISOMAL
ID to be assigned	Available upon Request	FEMALE	53	PBMC	EPISOMAL
ID to be assigned	Available upon Request	FEMALE	54	PBMC	EPISOMAL
ID to be assigned	Available upon Request	FEMALE	49	PBMC	EPISOMAL

PARKINSON'S DISEASE

CELL LINE NAME	CELL LINE STATUS	SEX	PATIENT AGE (years)	MATERIAL SOURCE	TYPE OF REPROGRAMMING	GENE AFFECTED	PRIMARY DISEASE MUTATION
IPSC0094	Ready to Ship	MALE	70	PBMC	EPISOMAL	SPORADIC PD	NA
IPSC0042	Ready to Ship	FEMALE	61	PBMC	EPISOMAL	SPORADIC PD	NA
IPSC0047	Ready to Ship	MALE	67	PBMC	EPISOMAL	SPORADIC PD	NA
IPSC0021	Ready to Ship	FEMALE	UNK	PBMC	EPISOMAL	PARKIN	Homozygous deletion between exon 3 and 4
IPSC0050	Ready to Ship	MALE	54	PBMC	EPISOMAL	LRRK2	R1441H
IPSC0051	Ready to Ship	MALE	54	PBMC	EPISOMAL	LRRK2	R1441H (corrected)
IPSC0048	Ready to Ship	MALE	76	PBMC	EPISOMAL	LRRK2	M1646T
IPSC0017	Ready to Ship	FEMALE	64	PBMC	EPISOMAL	LRRK2	M1646T
IPSC0018	Ready to Ship	FEMALE	64	PBMC	EPISOMAL	LRRK2	M1646T(corrected)
IPSC0006	Ready to Ship	FEMALE	62	PBMC	EPISOMAL	LRRK2	G2019S
IPSC0007	Ready to Ship	FEMALE	62	PBMC	EPISOMAL	LRRK2	G2019S (Corrected)
IPSC0003	Ready to Ship	FEMALE	74	PBMC	EPISOMAL	LRRK2	G2019S
IPSC0037	Ready to Ship	FEMALE	65	PBMC	EPISOMAL	LRRK2	G2385R
IPSC0039	Ready to Ship	FEMALE	65	PBMC	EPISOMAL	LRRK2	G2385R(corrected)
IPSC0040	Ready to Ship	FEMALE	58	PBMC	EPISOMAL	LRRK2	intron variant rs41286480
IPSC0041	Ready to Ship	FEMALE	58	PBMC	EPISOMAL	LRRK2	N551K-R1398H-K1423K (protective haplotype)
IPSC0058	Ready to Ship	MALE	66	PBMC	EPISOMAL	LRRK2	N551K-R1398H-K1423K (protective haplotype)
IPSC0059	Ready to Ship	MALE	66	PBMC	EPISOMAL	LRRK2	N551K(corrected)-R1398H-K1423K (protective haplotype)
IPSC0060	Ready to Ship	MALE	66	PBMC	EPISOMAL	LRRK2	N551K-R1398H(corrected)-K1423K (protective haplotype)
IPSC0020	Available upon Request	FEMALE	90	PBMC	EPISOMAL	LRRK2	N551K-R1398H-K1423K (protective haplotype)
IPSC0052	Available upon Request	MALE	64	PBMC	EPISOMAL	LRRK2	N551K-R1398H-K1423K (protective haplotype)
IPSC0004	Ready to Ship	FEMALE	65	PBMC	EPISOMAL	GBA1	N370S
IPSC0005	Ready to Ship	FEMALE	65	PBMC	EPISOMAL	GBA1	N370S (corrected)
IPSC0001	Ready to Ship	FEMALE	62	PBMC	EPISOMAL	GBA1	W378G
IPSC0002	Ready to Ship	FEMALE	62	PBMC	EPISOMAL	GBA1	W378G (corrected)
IPSC0027	Ready to Ship	FEMALE	46	PBMC	EPISOMAL	GBA1	L324I
IPSC0055	Ready to Ship	MALE	59	PBMC	EPISOMAL	GBA	E326K
IPSC0056	Ready to Ship	MALE	59	PBMC	EPISOMAL	GBA	E326K (corrected)
IPSC0053	Ready to Ship	MALE	58	PBMC	EPISOMAL	GBA	L444P
IPSC0054	Ready to Ship	MALE	58	PBMC	EPISOMAL	GBA	L444P (corrected)
IPSC0008	Ready to Ship	FEMALE	64	PBMC	EPISOMAL	TMEM175	Q65P heterozygous
IPSC0009	Ready to Ship	FEMALE	64	PBMC	EPISOMAL	TMEM175	Q65P(corrected)
IPSC0010	Ready to Ship	FEMALE	64	PBMC	EPISOMAL	TMEM175	Q65P(homozygous)
IPSC0012	Ready to Ship	FEMALE	60	PBMC	EPISOMAL	TMEM175	homozygous M393T
IPSC0013	Ready to Ship	FEMALE	60	PBMC	EPISOMAL	TMEM175	homozygous M393T (corrected)
IPSC0033	Ready to Ship	FEMALE	60	PBMC	EPISOMAL	TMEM175	homozygous M393T
IPSC0011	Available upon Request	FEMALE	71	PBMC	EPISOMAL	GBA1	T369M
ID to be assigned	Available upon Request	MALE	57	PBMC	EPISOMAL	PARKIN	K161E
ID to be assigned	Available upon Request	FEMALE	45	PBMC	EPISOMAL	PINK1	M318L
ID to be assigned	Available upon Request	MALE	52	PBMC	EPISOMAL	PARKIN	R275W
ID to be assigned	Available upon Request	MALE	78	PBMC	EPISOMAL	GRN	NA
ID to be assigned	Available upon Request	MALE	53	PBMC	EPISOMAL	GBA1	L444P heterozygous
ID to be assigned	Available upon Request	FEMALE	59	PBMC	EPISOMAL	GBA1	T408M heterozygous
ID to be assigned	Available upon Request	MALE	58	PBMC	EPISOMAL	SPORADIC PD	NA

ID to be assigned	Available upon Request	FEMALE	72	PBMC	EPISOMAL	SPORADIC PD	NA
ID to be assigned	Available upon Request	MALE	70	PBMC	EPISOMAL	SPORADIC PD	NA
ID to be assigned	Available upon Request	FEMALE	42	PBMC	EPISOMAL	SPORADIC PD	NA
ID to be assigned	Available upon Request	FEMALE	57	PBMC	EPISOMAL	MAPT	H1 haplotype
ID to be assigned	Available upon Request	MALE	80	PBMC	EPISOMAL	TMEM175	M393T heterozygous
ID to be assigned	Available upon Request	FEMALE	82	PBMC	EPISOMAL	SPORADIC PD	NA
ID to be assigned	Available upon Request	FEMALE	59	PBMC	EPISOMAL	TMEM175	M393T heterozy
ID to be assigned	Available upon Request	FEMALE	88	PBMC	EPISOMAL	SPORADIC PD	NA
ID to be assigned	Available upon Request	MALE	58	PBMC	EPISOMAL	SPORADIC PD	NA
ID to be assigned	Available upon Request	MALE	57	PBMC	EPISOMAL	SPORADIC PD	NA
ID to be assigned	Available upon Request	MALE	83	PBMC	EPISOMAL	SPORADIC PD	NA
ID to be assigned	Available upon Request	MALE	59	PBMC	EPISOMAL	TMEM175	M393T homozygous
ID to be assigned	Available upon Request	MALE	80	PBMC	EPISOMAL	SPORADIC PD	NA
ID to be assigned	Available upon Request	FEMALE	74	PBMC	EPISOMAL	SPORADIC PD	NA
ID to be assigned	Available upon Request	FEMALE	80	PBMC	EPISOMAL	VAPB	A2V

ALS

CELL LINE NAME	CELL LINE STATUS	SEX	PATIENT AGE (years)	MATERIAL SOURCE	TYPE OF REPROGRAMMING	GENE AFFECTED	PRIMARY DISEASE MUTATION
IPSC0028	Ready to Ship	FEMALE	46	PBMC	EPISOMAL	SOD1	I114T
IPSC0029	Ready to Ship	FEMALE	46	PBMC	EPISOMAL	SOD1	I114T (Corrected)
IPSC0031	Ready to Ship	FEMALE	42	PBMC	EPISOMAL	SOD1	I114T
IPSC0093	Ready to Ship	MALE	62	PBMC	EPISOMAL	SOD1	I114T
IPSC0015	Ready to Ship	FEMALE	50	PBMC	EPISOMAL	SOD1	I114T
IPSC0014	Available upon Request	FEMALE	22	PBMC	EPISOMAL	SOD1	A4E
IPSC0049	Available upon Request	MALE	66	PBMC	EPISOMAL	C9ORF72	Expansion mutation
IPSC0019	Ready to Ship	FEMALE	80	PBMC	EPISOMAL	VAPB	A2V
IPSC0026	Ready to Ship	FEMALE	81	PBMC	EPISOMAL	sALS	NA
IPSC0030	Ready to Ship	FEMALE	65	PBMC	EPISOMAL	SALS+FTD	NA
IPSC0091	Ready to Ship	MALE	53	PBMC	EPISOMAL	sALS	NA
IPSC0092	Ready to Ship	MALE	49	PBMC	EPISOMAL	sALS, progressed from PLS	NA
IPSC0032	Ready to Ship	FEMALE	77	PBMC	EPISOMAL	sALS	NA
IPSC0057	Ready to Ship	MALE	88	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	FEMALE	80	PBMC	EPISOMAL	VAPB	A2V
ID to be assigned	Ready to Ship	MALE	78	PBMC	EPISOMAL	C9ORF72	C9ORF72 expansion
ID to be assigned	Ready to Ship	MALE	67	PBMC	EPISOMAL	C9ORF72	C9ORF72 expansion
ID to be assigned	Ready to Ship	FEMALE	58	PBMC	EPISOMAL	C9ORF72	C9ORF72 expansion
ID to be assigned	Ready to Ship	FEMALE	47	PBMC	EPISOMAL	C9ORF72	C9ORF72 expansion
ID to be assigned	Ready to Ship	FEMALE	52	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	FEMALE	53	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	MALE	69	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	MALE	60	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	FEMALE	66	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	MALE	59	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	MALE	61	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	MALE	33	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	FEMALE	62	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	FEMALE	54	PBMC	EPISOMAL	sALS	NA
ID to be assigned	Ready to Ship	FEMALE	59	PBMC	EPISOMAL	Multiple System Atrophy	NA

CRISPR KO

CELL LINE NAME	CELL LINE STATUS	GENE EDITED	EDITING TYPE	ENSEMBL ID	PARENT CELL LINE
IPSC0100	Ready to Ship	ASAH-1	CRISPR KO	ENSG00000104763	IPSC0063
IPSC0086	Ready to Ship	SMPD-1	CRISPR KO	ENSG00000166311	IPSC0063
IPSC0111	Ready to Ship	GALC	CRISPR KO	ENSG00000054983	IPSC0063
IPSC0083	Ready to Ship	SNCA (alpha-synuclein)	CRISPR KO	ENSG00000145335	IPSC0063
IPSC0070	Ready to Ship	Parkin	CRISPR KO	ENSG00000185345	IPSC0063
IPSC0072	Ready to Ship	PINK1	CRISPR KO	ENSG00000158828	IPSC0063
IPSC0069	Ready to Ship	Parkin+PINK1	CRISPR KO	ENSG00000185345/ENSG00000158828	IPSC0063
IPSC0117	Ready to Ship	LRRK2	CRISPR KO	ENSG00000188906	IPSC0063
IPSC0110	Ready to Ship	FUS	CRISPR KO	ENSG00000089280	IPSC0063
IPSC0068	Ready to Ship	OPTN	CRISPR KO	ENSG00000123240	IPSC0063
IPSC0103	Ready to Ship	C9ORF72	CRISPR KO	ENSG00000147894	IPSC0063
IPSC0112	Ready to Ship	GBA	CRISPR KO	ENSG00000177628	IPSC0063
IPSC0066	Ready to Ship	MAPT	CRISPR KO	ENSG00000276155	IPSC0063
IPSC0098	Ready to Ship	USP19	CRISPR KO	ENSG00000172046	IPSC0063
IPSC0101	Ready to Ship	Ataxin-3	CRISPR KO	ENSG00000066427	IPSC0063
IPSC0108	Ready to Ship	FMR1	CRISPR KO	ENSG00000102081	IPSC0063
IPSC0113	Ready to Ship	GBA	CRISPR KO	ENSG00000177628	IPSC0063
IPSC0097	Available upon Request	TMEM175	CRISPR KO	ENSG00000127419	IPSC0063
IPSC0106	Available upon Request	CTSB	CRISPR KO	ENSG00000164733	IPSC0063
IPSC0102	Available upon Request	BIN3	CRISPR KO	ENSG00000147439	IPSC0063
IPSC0116	Available upon Request	IP6K	CRISPR KO	ENSG00000068745	IPSC0063
IPSC0078	Available upon Request	SCARB2	CRISPR KO	ENSG00000138760	IPSC0063
IPSC0096	Available upon Request	TMEM163	CRISPR KO	ENSG00000152128	IPSC0063
IPSC0114	Available upon Request	IGSF9B	CRISPR KO	ENSG00000080854	IPSC0063
IPSC0024	Available upon Request	DENND5	CRISPR KO	ENSG00000184014	IPSC0063
IPSC0061	Available upon Request	DENND5	CRISPR KO	ENSG00000184014	IPSC0043
IPSC0104	Available upon Request	CDH12	CRISPR KO	ENSG00000154162	IPSC0063
IPSC0099	Available upon Request	ARL13B	CRISPR KO	ENSG00000169379	IPSC0063
IPSC0067	Available upon Request	OFD1	CRISPR KO	ENSG00000046651	IPSC0063
IPSC0062	Available upon Request	E12F2B	CRISPR KO	ENSG00000119718	IPSC0043
IPSC0085	Available upon Request	SPG11	CRISPR KO	ENSG00000104133	IPSC0063
IPSC0105	Available upon Request	CLCN3	CRISPR KO	ENSG00000109572	IPSC0063
IPSC0115	Available upon Request	INPP5F	CRISPR KO	ENSG00000198825	IPSC0063
IPSC0079	Available upon Request	SH3GL2	CRISPR KO	ENSG00000107295	IPSC0063
ID to be assigned	Available upon Request	USP19/MAPT P301L	CRISPR KO	ENSG00000172046 (USP19) / ENSG00000186868 (MAPT)	IPSC0063
ID to be assigned	Available upon Request	TMEM106B	CRISPR KO	ENSG00000106460	IPSC0063
ID to be assigned	Available upon Request	CSF1R(het)	CRISPR KO	ENSG00000182578	IPSC0043

CRISPR KI and ISOGENIC CONTROLS

CELL LINE NAME	CELL LINE STATUS	GENE EDITED	GENETIC MODIFICATION	EDITING TYPE	ENSEMBL ID	PARENT CELL LINE
IPSC0080	Ready to Ship	SNCA	A30P	KI	ENSG00000145335	IPSC0063
IPSC0081	Ready to Ship	SNCA	A53T	KI	ENSG00000145335	IPSC0063
IPSC0082	Ready to Ship	SNCA	E46K	KI	ENSG00000145335	IPSC0063
IPSC0084	Ready to Ship	SOD1	G93A	KI	ENSG00000142168	IPSC0063
IPSC0065	Ready to Ship	MAPT	P301L	KI	ENSG00000186868	IPSC0063
IPSC0074	Ready to Ship	Parkin	W403A	KI	ENSG00000185345	IPSC0063
IPSC0073	Ready to Ship	Parkin	A401D	KI	ENSG00000185345	IPSC0063
IPSC0075	Ready to Ship	Parkin	Y143D	KI	ENSG00000185345	IPSC0063
IPSC0076	Ready to Ship	Parkin	V393D	KI	ENSG00000185345	IPSC0063
IPSC0071	Ready to Ship	PINK1	C-terminal FLAG tag	KI	ENSG00000158828	IPSC0063
IPSC0109	Ready to Ship	FUS	H517Q	KI	ENSG00000089280	IPSC0063
IPSC0089	Ready to Ship	TARDBP	A382T	KI	ENSG00000120948	IPSC0063
IPSC0090	Ready to Ship	TARDBP	G348C	KI	ENSG00000120948	IPSC0063
ID to be assigned	Available upon Request	LRRK2	G2019S	iso	ENSG00000188906	IPSC0003
IPSC0060	Available upon Request	LRRK2	R1398H	iso	ENSG00000188906	IPSC0059
ID to be assigned	Available upon Request	LRRK2	N551K	iso	ENSG00000188906	IPSC0052
ID to be assigned	Available upon Request	LRRK2	R1398H	iso	ENSG00000188906	IPSC0052
ID to be assigned	Available upon Request	GBA	E326K homo	KI	ENSG00000177628	IPSC0063
ID to be assigned	Available upon Request	GBA	N370S homo	KI	ENSG00000177628	IPSC0063
ID to be assigned	Available upon Request	GBA	L444P	KI	ENSG00000177628	IPSC0063
ID to be assigned	Available upon Request	GBA	T369M	iso	ENSG00000177628	IPSC0011
ID to be assigned	Available upon Request	GBA	rs3115534 G/G homo	KI	ENSG00000177628	IPSC0063
ID to be assigned	Available upon Request	GBA	rs3115534 G/A het	KI	ENSG00000177628	IPSC0063
ID to be assigned	Available upon Request	GBA	N370S het	KI	ENSG00000177628	IPSC0063
ID to be assigned	Available upon Request	SOD1	G39A	KI	ENSG00000142168	IPSC0063
ID to be assigned	Available upon Request	SOD1	D90A	KI	ENSG00000142168	IPSC0063
IPSC0084	Available upon Request	SOD1	G93A/D90A	KI	ENSG00000142168	IPSC0063

TAGGED REPORTER LINES

CELL LINE NAME	CELL LINE STATUS	GENE EDITED	GENETIC MODIFICATION	ENSEMBL ID	PARENT CELL LINE
IPSC0118	Ready to Ship	GBA1	GBA-stop-HiBit	ENSG00000177628	IPSC0063
IPSC0119	Ready to Ship	LRRK2	LRRK2-stop-HiBit	ENSG00000188906	IPSC0063
IPSC0120	Ready to Ship	PRKN	PRKN-start-HiBit	ENSG00000185345	IPSC0063
IPSC0121	Ready to Ship	PRKN	PRKN-stop-HiBit	ENSG00000185345	IPSC0063
IPSC0122	Ready to Ship	SNCA	SNCA-start-HiBit	ENSG00000145335	IPSC0063
IPSC0123	Ready to Ship	SNCA	SNCA-stop-HiBit	ENSG00000145335	IPSC0063
IPSC0124	Ready to Ship	VPS35	VPS35-stop-HiBit	ENSG00000069329	IPSC0063
IPSC0126	Ready to Ship	SOX10	SOX10-P2A-mORANGE	ENSG00000100146	IPSC0043
ID to be assigned	Ready to Ship	LgBit	LgBit-stop	N/A	IPSC0063
ID to be assigned	Ready to Ship	VPS13C	VPS13C-stop-HiBit	ENSG00000129003	IPSC0063
ID to be assigned	Ready to Ship	PINK1	PINK1-stop (het)-HiBit	ENSG00000158828	IPSC0063
ID to be assigned	Ready to Ship	GPNMB	GPNMB-stop-HiBit	ENSG00000136235	IPSC0063

Contact information

For questions regarding **C-BIG Repository**, please contact:

- Nicolas Ferry - nicolas.ferry@mcgill.ca

For questions regarding **iPSC**, please contact:

- Carol Chen - xiuqing.chen@mcgill.ca
- Taylor Goldsmith - taylor.goldsmith@mcgill.ca

For questions regarding **CRISPR editing**, please contact:

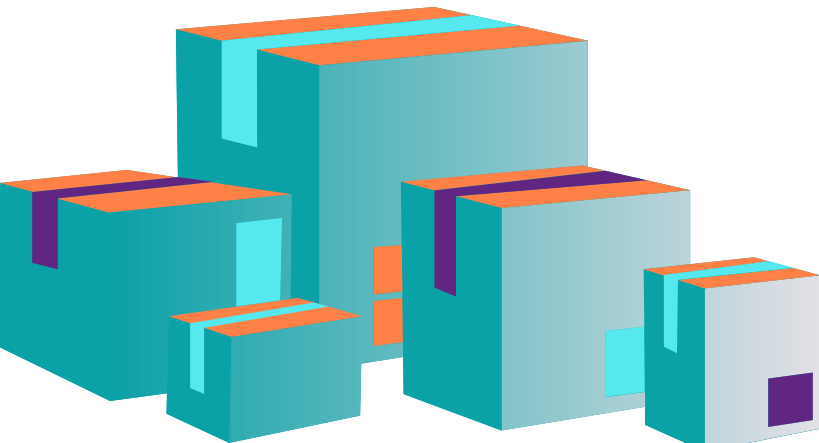
- Michael Nicouleau - michael.nicouleau@mcgill.ca

For questions regarding **Karyotyping**, please contact:

- Nathalia Aprahamian - nathalia.aprahamian@mcgill.ca



To make a request, please, email C-BIG at cbig.mni@mcgill.ca to:



1. **Confirm inventory**
2. **Complete the Application Package**
 - a. **Include REB Approval**
3. **Execution of Open Transfer Agreement**
 - a. **As well as NOA (if necessary)**
4. **Invoicing**
 - a. **Quote and preparation of PO#**
5. **Shipment**
 - a. **FedEX for local**
 - b. **World courier for international**



QR codes

EDDU LinkTree



C-BIG Website

