ELIXIRGEN SCIENTIFIC

Donor data for CIRM line: CW50023

Demographic (source: CIRM)	Description	CONTROL: NO COGNITIVE DECLINE (BASED ON COGNITIVE ASSESSMENT) | CONTROL: NON-DIABETIC WITHOUT AMD/DR/POAG (SELF-REPORTED) | CONTROL: NO CHRONIC LUNG DISEASE (SELF REPORTED)
	Affected Status	No
	Product	iPSC
	Source	PBMC
	Sex	Male
	Age at Sampling	69 YR
	Race	Caucasian
	Ethnicity	Not Hispanic or Latino
	Publications Cited	0
	dbGap	No
	Biopsy Source	Blood
	Collection	Alzheimer's Disease, Blinding Eye Diseases, Control, Lung Diseases
	Cell Type	Stem Cell
	Tissue Type	Induced pluripotent stem cell
	Transformant	Episomal
	Species	sapiens
	Common Name	human
	Detailed Clinical Data	false
Clinical data (source: CIRM)	CognitiveSharedControl	CognitiveSharedControl
	History of significant memory changes in the past	No
	History of major depression or psychiatric illness	No
	History of seizures alcohol or drug abuse	No
	Montreal Cognitive Assessment (MOCA) score > 25/30	Yes
	Parent or sibling with Alzheimer's Disease with ons	No
	OphthalmicSharedControl	OphthalmicSharedControl

	Glaucoma	No
	Age-Related Macular Degeneration	No
	Diabetic	No
	Diabetic retinopathy	No
	Family history of eye diseases	Don’t know
	PulmonarySharedControl	PulmonarySharedControl
	Smoking Status	Former
	Form of Tobacco	Cigarettes
	Cigarettes Average smoked per day quantity	10
	Cigarettes Average smoked per day units	Cigarettes
	Age Started	16
	Age Quit	48
	History of chronic lung disease	No
	Experienced a cough at least 4 days a week for at	No
	Experienced breathlessness that limits ability to	None
	Used or been prescribed oxygen	No
	Had a transplant (bone marrow peripheral stem cell	No
	Active cancer or cancer diagnosis in the past 2 yes	No
	Family history of pulmonary fibrosis	No

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Certificate of Analysis

Product Name: Human iPSC **Passage Number:** 10

Catalog Number: CW50023DD1

Test Parameter	Specification	Result
Identity Confirmation	No more than 1 SNP difference between clone and donor	Pass
Gene Expression	Classified as iPSC	Pass
Plasmid Loss	Evidence of Plasmid Loss	Pass
Mycoplasma	< LOD mycoplasma gDNA	Pass
Karyotype	iPS line has normal karyotype or reflects karyotype state (normal or abnormal) of donor	Pass
Sterility	Negative for Bacteria and Fungus	Pass

The signature below indicates that this lot of cells meets the specifications and may be released for distribution.

Quality Assurance Approval: Robi Fortuno Date: 25Jun2017