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## **Biosafety Documentation:**

### ***iCell<sup>®</sup> DopaNeurons*** ***MyCell<sup>®</sup> DopaNeurons***

Catalog Number(s): CUS-DNC-0.5X, CUS-DNC-1X, C1112, C1113  
Donor ID Number: 01279.431  
Genotype: SNCA (A53T)

#### **Cell Source and Biosafety Level Classification**

iCell<sup>®</sup> DopaNeurons/MyCell<sup>®</sup> DopaNeurons are human cells differentiated from a master bank of stably induced pluripotent stem (iPS) cells. FUJIFILM Cellular Dynamics, Inc. (FCDI), classifies these cells as Biosafety Level 1 (BSL1) based on the United States Centers for Disease Control and Prevention publication: *Biosafety in Microbiological and Biomedical Laboratories*. Handle the cells according to the biosafety guidelines applicable in your region.

#### **Reprogramming**

The iPS cell lines were generated from human peripheral blood through ectopic expression of reprogramming factors (e.g., *OCT4*, *SOX2*, *NANOG*, *LIN28*, *KLF4*, *L-MYC*, *SV40LT*) by episomal transfection. Following reprogramming, no episomal plasmids were detected by PCR in the iPS cell line.

#### **Engineering**

The iPS cell line was engineered to exhibit neomycin resistance under the control of a neuronal-specific promoter. Puromycin resistance was included in the targeting vector to allow selection of the iPS cells.

The iPS cell line was further engineered with a G to A point mutation at nucleotide position 209 in the synuclein alpha (*SNCA*) gene resulting in an alanine to threonine change at amino acid 53 in the alpha-synuclein protein.

None of the engineering vectors used contain oncogenes.

#### **Infectious Disease Testing**

The incoming peripheral blood was tested and non-reactive for HBV, HCV, HIV-1, HIV-2 and syphilis.