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## **Biosafety Documentation:** ***iCell*<sup>®</sup> GABANeurons**

Catalog Number(s): C1012, NRC-100-010-000.5, NRC-100-010-001  
Donor ID Number: 01434

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

iCell<sup>®</sup> GABANeurons (formerly known as iCell Neurons) 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*. We recommend handling iCell GABANeurons according to the biosafety guidelines applicable in your region.

### **Reprogramming**

The iPS cell lines were generated from human fibroblasts through ectopic expression of reprogramming factors (i.e. Oct4, Sox2, Nanog, Lin28) by retroviral transduction. The retroviral particles used in this process were obtained from the cell culture supernatant of HEK 293T cells transfected with plasmids containing the reprogramming factor genes as well as the coding regions of the gag, pol, and env retroviral genes. PCR analysis did not detect retroviral components in the starting fibroblast material or the iPS cell line, confirming the iPS cell line cannot spontaneously produce infectious virus.

### **Engineering**

The iPS cell clones were engineered using nuclease-mediated methodologies to exhibit blasticidin resistance under the control of a neuronal-specific promoter. Puromycin resistance was also included in the targeting vectors to allow selection of the iPS cell clones. None of the engineering vectors used contain oncogenes.

### **Infectious Disease Testing**

The iPS cell line is negative for HBV, HCV, HIV-1, and HIV-2.

### **Reference(s)**

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