

Data Sheet for Over Expressed Cell Line for GLRA3:

Cell ID: IDG-HEK293T-GLRA3-V5-OE

Cell Type: Stable overexpression cell line

Cryopreservation:

Freeze in complete growth medium supplemented with 10% (v/v) DMSO

Culture Conditions:

Complete Growth Medium. The base medium for this cell line is either DMEM or a-RPMI 1640 with 10% fetal bovine serum.

Description: This cell line stably expresses dark ion channel in frame with V5 tag on the C-terminus. The ion channel construct is randomly integrated in the genome using lentiviral transduction. This cell line also expresses gene conferring Blasticidin resistance. These cells lines can be used for various molecular and biochemical characterizations of dark ion channels in vitro.

Gene Name: GLRA3

ORF Sequence:

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ATGGCCACGTGAGACACTTTCGGACATTAGTTTCGGGATTTTACTTCTGGGAAGCAGCACTGTTACTCAG  
CACAAAGGAAACAGACAGTGCAAGATCTCGAAGTGCTCCAATGTCACCTTCTGATTTTCTGGATAAATTA  
CATCAGGATATGATGCAAGAATCAGACCCAATTTAAAGGCCCTCCAGTTAATGTCACATGCAACATATTC  
TTTGGCTCTATCGCAGAGACGACCATGGATTACAGAGTGAATATCTTCTTCGTCAGAAATGGAATGATCC  
GTACAGTGAATATCCTGACGACTCTTTAGACCTCGACCCCTCCATGTTGGACTCCATTTGGAAACCTGATT  
CCAATGAAAAGGGTGCCAACCTTTCATGAAGTCACTACAGACAACAAATTGCTAAGAATTTTCAAAAATGG  
TATTCAATAAGATTAACATTAACACTTTCCTGTCCAATGGATCTCAAGAATTTTCCCATGGATGTACAAAC  
GCAACTGGAAAGCTTTGGGTACACAATGAATGATCTCATTTTTGAATGGCAAGATGAGGCACCCGTACAA  
GACTCACTTTGCCCCAGTTTCTGTTGAAAGAAGAAAAGATTTACGATACTGCACTAAACATTACAATACA  
ACGTGTATAGAAGTGCGATTCCATCTGGAGCGACAAATGGGATACTATCTGATCCAGATGTACATTCCCAC  
TGTTATTCTATCCTGGGTTTCGTTCTGGATCAACATGGATGCAGCACCGGCCAGGGTAGCTCTGGGGATAA  
TAACGATGACTACACAGAGTTCAGGATCACGAGCTTCCCTTGCCAAAAGTTTCATATGTCAAAGCTATTGAT  
GCAGTATGCCTCCTTTTTGTGTTTTCAGCACTTCTGGAGTATGCAGCTGTAAATTTTGTATCAAGACAACAC  
TCTGAGATTTTCGACGAAAGAGAAAGAATAAGACAGAAGCCTTTGCACTGGAGAAGTTTACCGTTTCTCAC  
ATGAGGTAAGGGAAAGCCGATTCAGCTTCACAGCCTATGGAATGGGACCATGTCTACAAGCAAAGGATGC  
AAGGGCCCCAACCACCCTGTCCAGGTAATGCCAAAAGTCCTGATGAAATGAGGAAGGTCTTTATCGACC  
GATTGATACCATCTCCCGAGCCTGCTTCCCATTAGCTTTTTTGAATTTTAAATTTTTCTACTGGGTTATCTAT  
TTAGGCATGAGGATATTCATCAGCAGCAAGATACAGCTTCTTGTACAAAGTGGTTGGTAAGCCTATCCCT  
CTCGGTCTCGATTCTACGTAG
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Parent Cell Line: HEK293

Quantity: 1 vial of $\sim 1 \times 10^6$ cells; froze

Thawing Procedure:

The cells must be thawed in a 37 °C water bath under 2 min. Using aseptic technique, add the contents of the vial to 9 ml of complete growth medium, centrifuge for 5 min at 125 x g. Aspirate the medium, and resuspend in 10 mL of complete growth medium, and place into a culture vessel of your choice. Only add selection antibiotic to the medium after 24 hours in culture.