Data Sheet for Over Expression Cells for KCNJ15:

Cell ID: IDG-HEK293T-KCNJ15-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.   Single Cell Clones: F8-- Heterogenous expression of V5 across few positive cells.

Gene Name: KCNJ15

ORF Sequence:
ATGGATGCCATTCACATCGGCATGTCCAGCACCCCCCTGGTGAAGCACACTGCTGGGGCTGGGCTCAAGG
CCGCGTCATGTCCAAGAGTGGGCACAGCAACGTGAGAATTGACAAAGTGGATGGCATATACCTACTCTAC
TGTGGACCACAGTTATCGACATGAAGTGGAGATACAAACTCACCCTGTTCGCTGCCACTTTTGTGATGACC
TTTGGAGTCATCTACTATGCCATCGCGTTTATTCATGGGGACTTAGAACCCGGTGAGCCCATTTCAAATCAT
CATCATGAAAGTGGACTCTCTCACTGGGGCGTTTCTCTTTTCCCTGGAATCCCAGACAACCATTGGCTATGC
CCATCACAGAGGAATGTCCTCATGCCATCTTCCTGTTGGTTGCTCAGTTGGTCATCACGACCTTGATTGAGA
ACCGGAACCTTCCTGGCCAAAATCGCCAGACCCAAAAAGCGGGCTGAGACCATCAAGTTCAGCCACTGTG
CAAGCAGAATGGGAAGCTGTGCTTGGTGATTCAGGTAGCCAATATGAGGAAGAGCCTCTTGATTCAGTGC
GCAAGCTCCTGCAGACCCACGTCACCAAGGAGGGGGAGCGGATTCTCCTCAACCAAGCCACTGTCAAATT
TCCTCCTCTGAGAGCCCCTTCCTCATTCTGCCCATGACATTCTACCATGTGCTGGATGAGACGAGCCCCCTG
CACACCCCAAAACCTAAAGGAGAAGGAGTTTGAGCTTGTGGTCCTCCTCAATGCCACTGTGGAATCCACCA
GCCAGAGCCGAACATCTTATATCCCAGAGGAAATCTACTGGGGTTTTGAGTTTGTGCCTGTGGTATCTCTC
GGAAAATATGTGGCTGATTTCAGTCAGTTTGAACAGATTCGGAAAAGCCCAGATTGCACATTTTACTGTGC
GAAACAGCAACTCGAGGAGAAGTACAGGCAGGAGGATCAGAGGGAAAGAGAACTGAGGACACTTTTATT
ATGTCTGCCCAACTTTCTTGTACAAAGTGGTTGGTAAGCCTATCCCTAACCCTCTCCTCGGTCTCGATTCTA

Parent Cell Line: HEK293

Quantity: 1 vial of ~1 x 106 cells; froze

Thawing Procedure:

The cells must be thawed in a 37 0C 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.