

# Data Sheet for Over Expression Cells for CACNG3:

Cell ID: IDG-HEK293T-CACNG3-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. &nbsp; Single Cell Clones: C2 shows membranous expression of V5, cell population appears homogenous.&nbsp;

Gene Name: CACNG3

ORF Sequence:

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ATGAGGATGTGTGACAGAGGTATCCAGATGTTGATCACCAGTGTAGGAGCCTTTGCCGCTTTTAGTTTAAT
AGTGGGCACGGACTACTGGTTATATTCCAGAGGTGTGTGCAGGACTAAATCTACAAGTGATAATGAAACC
ATGAAGAAGTAATGACCCATTCGGGGCTGTGGAGGACCTGCTGCCTAGAAGGGGCTTTCCGAGGCGTGTG
GATCACTTCCCTGAAGATGCTGACTACGAACAGGACACAGCCGAATATCTCCTGCGAGCTGTGAGGGCCTC
CCCCATCCTCAGTGTCACGCTGCTGTTCTTCGGCGGGCTCTGCGTGGCAGCCAGTGAGTTCCACCGCAGCA
TCATTCTCAGCGCGGGCATCTTTTTTGTCTCTGCAGGGTTAAGCAACATCATTGGCATCATAGTTTATATAT
GCCGGAGACCCCGGGCAGCGTGACTCCAAAAAAGTTACTCCTATGGTTGGTCCTTTTATTTTCGGAGCCTT
CATCGCAGAAATTGTAGGAGTGGTTGCCGTGCACATCTATATTGAAAAACATCAGCAGTTACGAGCCAAA
AGTTCCTGAAGAAATCTACTTTTGCCCGCCTCCACCCCTACAGGTATCGATTCCGGAGGCGGTCAAGTTCTC
GAGCCCAGATCCCAGACCTGTCCCCATCAGCAAAGGCTTCCACACCATCCCTTCCACTGACATCTCGAT
CTCCCGGGACCCCTCAAAGATCACCATGGGGACCCTCCTCAACTCCGACCGGGACCACGCTTTTCTACAGT
CCACACCCAAAGAGTTCAAAGAGTCACTGCATAATAATCCGGCCAACAGGGCGCACCACGCCCGTCTGCC
TACAAAGTGGTTGGTAAGCCTATCCCTAACCCTCTCCTCGGTCTCGATTCTACGTAG
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Parent Cell Line: HEK293

Quantity: 1 vial of ~1 x 10<sup>6</sup> 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.