

Data Sheet for Over Expression Cells for CHRNB1:

Cell ID: IDG-HEK293T-CHRNB1-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: CHRNB1

ORF Sequence:

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ATGACCCAGGGGCTCTGCTGATGCTGCTGGGGGCGCTGGGGGCGCCGCTCGCCCCAGGCGTCCGCGGCTC
GGGTGCGACTCCGGGAGAACTTTTCTCTGGCTATGATAGCTCCGTGCGGCCAGCGCGGGAGGTGGGAGAC
TCAGCGTTGGTCTCATCCTGGCGCAACTCATCAGCCTGAACGAGAAGGATGAAGAGATGAGCACAAAGGT
CTGGAGTGGACTGACTACAGGCTGAGCTGGGACCCTGCGGAGCACGACGGCATCGATTGCTCCGCATCA
CGTGTGGCTCCCTGACGTGGTGTACTGAACAACAATGATGGGAATTTTGACGTGGCTCTGGACATTAGCG
CCTCCGACGGCTCCGTGCGTTGGCAACCCCCGGGCATCTATCGCAGCAGCTGCAGCATCCAGGTCACCTAC
GACTGGCAGAATTGCACTATGGTGTTCAGCTCCTACAGCTACGACAGCTCGGAGGTCAGCCTGCAGACAG
TGACGGGCAAGGGCATCAGGAAATCCACATTCATGAAGGGACTTTCATTGAGAATGGCCAGTGGGAGATT
CCTCTCGGCTAATCCAGCCTCCAGGCGATCCTAGGGGAGGGAGGGAAGGACAGCGCCAGGAAGTCATCTT
ATCCGCCGCAAGCCTCTCTTCTACCTGGTCAACGTCATTGCCCATGCATCCTCATCACTCTTCTGGCCATC
CTACCTGCCACCAGATGCAGGAGAGAAGATGGGGCTCTCAATCTTTGCCCTGCTGACCCTTACTGTGTTCC
TGGCTGACAAAGTACCTGAGACCTCACTATCAGTACCCATTATTATCAAGTACCTCATGTTTACCATGGTCC
TTCTCAGTCATCCTTAGTGTCGTGGTTCTCAACCTGCACCACCGCTCACCCACACCCACCAAATGCCCTT
TCAGATCTTCATTCACAACTTCCGCTGTACCTGCGTCTAAAAAGGCCCAAACCCGAGAGAGACCTGATGC
CTCACTGTTCTTCTCCAGGAAGTGGCTGGGGTTCGGGGAACAGATGAATATTTTCATCCGGAAGCCGCCAAGT
TTCCCAAACCCAAATAGGTTCCAGCCTGAACTGTCTGCCCTGATCTGCGGGCGATTTATCGATGGTCCAAA
GGCCCTGCTTCCGGAGCTACGGGAGGTTCGTCTCCTCTATCAGCTACATCGCTCGACAGCTGCAGGAACAGC
ATGCGCTGAAGGAGGACTGGCAGTTTGTGGCCATGGTAGTGGACCGCCTCTTCTGTGGACTTTCATCATC
GTTGGGACCCTAGTCATCTTCTGGACGCCACGTACCACTTGCCCCCTCCAGACCCCTTTCCTTGCCCAACT
CAAAGTGGTTGGTAAGCCTATCCCTAACCTCTCCTCGGTCTCGATTCTACGTAG
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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.