

Data Sheet for Over Expressed Cell Line for GABRP:

Cell ID: IDG-HEK293T-GABRP-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: GABRP

ORF Sequence:

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ATGAACTACAGCCTCCACTTGGCCTTCGTGTGTCTGAGTCTCTTCACTGAGAGGATGTGCATCCAGGGGAG
CGTCGAGGTCGGCAGAAGTGACAAGCTTTCCTGCCTGGCTTTGAGAACCTCACAGCAGGATATAACAAA
CCAATTTTGGTGGAGAACCCGTACAGATAGCGCTGACTCTGGACATTGCAAGTATCTCTAGCATTTCAGAG
GACTACACAGCCACCATATACCTCCGACAGCGCTGGATGGACCAGCGGCTGGTGTGTTGAAGGCAACAAGA
GGATGCCC GCCTCGTGGAGTTCCTCTGGGTGCCAGATACTTACATTGTGGAGTCCAAGAAGTCCTTCCTCC
CTGTGGGAAACAGGCTCATCCGCCTCTTCTCCAATGGCACGGTCTGTATGCCCTCAGAATCACGACAACT
AACATGGATCTGTCTAAATACCCCATGGACACACAGACATGCAAGTTGCAGCTGGAAAGCTGGGGCTATG
TGTGGAGTTCACCTGGCTGAGAGGGAACGACTCTGTGCGTGGACTGGAACACCTGCGGCTTGCTCAGTACA
GGTATTTACCTTAGTCACCAGATCGCAGCAGGAGACAGGAAATTACACTAGATTGGTCTTACAGTTTGAC
AATGTTCTGTATTTCAATTTTGGAAACCTACGTTTCCTTCCACTTTCCTGGTGGTGTGTCCTGGGTTTCATTT
TCTCGATT CAGTCCCTGCAAGAACCTGCATTGGAGTGACGACCGTGTTATCAATGACCACACTGATGATCG
CTTCTCTTCCCAACACCAACTGCTTCATCAAGGCCATCGATGTGTACCTGGGGATCTGCTTTAGCTTTGTGT
TTGCTAGAATATGCAGTTGCTCACTACAGTTCCTTACAGCAGATGGCAGCCAAAGATAGGGGGACAACAA
AGAAGTCAGTATTACTAATATCATCAACAGCTCCATCTCCAGCTTTAAACGGAAGATCAGCTTTGCCAGCA
CCAGCGACAACGTTGACTACAGTGACTTGACAATGAAAACCAGCGACAAGTTCAAGTTTGTCTTCCGAGA
AGGATTGTTGATTATTTACAAATTCAAAACCCAGTAATGTTGATCACTATTCCAAACTACTGTTTCCTTTG
GCTAGCCAATGTATTTTACTGGGCATACTACATGTATTTTACAGCTTTCCTTGTACAAAGTGGTTGGTAAGCC
ACCCTCTCCTCGGTCTCGATTCTACGTAG
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Parent Cell Line: HEK293

Quantity: 1 vial of ~1 x 10⁶ 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.