

Product datasheet for MR219456

Kcnk13 (NM_146037) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnk13 (NM_146037) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnk13
Synonyms: BB085247; F730021E22Rik; Gm1570; Gm1685
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR219456 representing NM_146037
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGCCGCGGTTGCGGCTGCAGCCCCGCCACCTGAACGAGGACAACGCGCCTTCTGCTGCTCG
CTGGGCTCATCTGCTACCTGCTGGCGGCCCGCAGTCTTCCGCGCTGGAGCTAGCGCAGGAGTT
GCAGGCCAAGCAGCGCTGGGAAGAGCGCTGGCCAACCTCAGCCGGGCCACAACCTGAGCCGTGAAGAG
CTGCGAGGTTTCTCCGCACTACGAGGAAGCCACCAGGGCGGGCATCCGCATGGACAGCGTGCGCCCTC
GCTGGGACTTACGGGCGCTTCTACTTGTGGGTACAGTGGTTTCTACCATAGGTTTGGGATGACAAC
ACCAGCCACAACGGGAGGAAGATTTTTCTGATCTTTATGGTCTCATTGGATGTGCAAGTACCATCCTC
TTCTTCAACCTTTTCTGGAGCGGCTGATCACTGTCTATCGCTGTGTCATGAGATCCTGTACCAGCAGC
AGCTGCGCAGACGTGGGGCGGTGACCCAGGACAACATGAAGGCTCCTGAAAAGGGGGAGGCAGACAGCCT
GACTGGCTGGAAGCCCTGTGTACTACGTATGCTGATCCTATGCTTGGCATCAGTGGCCATCTCCTGC
GGAGCCTCTGCTCTGTACACCACCATGGAGGGCTGGAGCTACTTTGACTCGGTCTACTTCTGTTTGTGG
CTTTCAGCACCATTGGCTTCGGGGACCTGGTGAGCAGCCAGAATGCTCAGTATGAGAGCCAAGGACTCTA
CCGCTTCTTCAATTTCTCCTCATCCTCATGGGTGTCTGCTGCATCTACTTTTGTAAACGTCACTCC
ATCCTGATCAAACAGACTGTGAAGTGGATCCTGAGGAACTGGATAGCGGGTCTCCACCATGCCAAA
GAGGACTCCTGCGGTCCAGGAGGAATGTGGTATGCCGGTAACATCCGGAACAGGTGCAACATCTCCAT
AGAGACAGACGGGTGATGGAAGTGACTGATGGACGACGCTCTCGGGGGAGATGATCTCCATGAAG
GACACCAACAAGGTCTCCTGGCCATCCTGCAGAAGCAGTTGTCCGAGATGGCCAATGGGGGACCCACC
AGAACAGTGATCCTCCCGGATGATGAGTTCTCAGGGGGAGTGGGAGCCTTGCAGTAATGAATAACAG
GTTGGCAGAGACCAGTGGAGATAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR219456 representing NM_146037
Red=Cloning site Green=Tags(s)

MAGRGCSPGHLNEDNARFLLLAGLILLYLLGGAAVFSALELAQELQAKQRWEERLANFSRGNLSREE
 LRGFLRHYEEATRAGIRMDSVRPRWDFTGAFYFVGTVVSTIGFGMTTPATTGGKIFLIFYGLIGCASTIL
 FFNLFLERLITVIACVMRSCHQQQLRRRGAVTQDNMKAPEKGEADSLTGWKPSVYYVMLILCLASVAISC
 GASALYTTMEGWSYFDSVYFCFVAFSTIGFGDLVSSQNAQYESQGLYRFFNFLLILMGVCCIIYSLFNVIS
 ILIKQTVNWILRKLDSGCFPPCQRGLLRSRNVVMPGNI RNRCNISIETDGVMSD TDGRRLSGEMISMK
 DTNKVSLAILQKQLSEMANGGPHQNSASSRDEFSGGVGAFVMMNRLAETSGDR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9029_c02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_146037

ORF Size: 1215 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_146037.2](#), [NP_666149.1](#)

RefSeq Size: 3061 bp

RefSeq ORF: 1218 bp

Locus ID: 217826

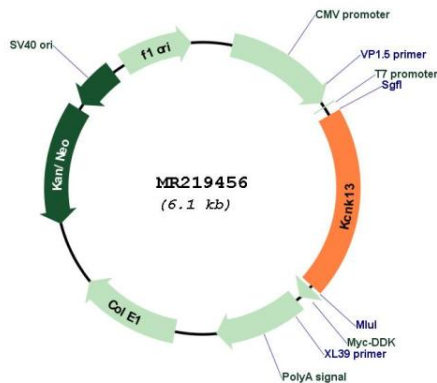
UniProt ID: [Q8R1P5](#)

Cytogenetics: 12 E

MW: 45.4 kDa

Gene Summary: Potassium channel displaying weak inward rectification in symmetrical K(+) solution. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR219456