

Product datasheet for **MG219456**

Kcnk13 (NM_146037) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnk13 (NM_146037) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Kcnk13
Synonyms: BB085247; F730021E22Rik; Gm1570; Gm1685
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG219456 representing NM_146037
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGGCCGCGGTTGCGGCTGCAGCCCCGCCACCTGAACGAGGACAACGCGCCTTCTGCTGCTCG
 CTGGGCTCATCTGCTACCTGCTGGCGGCCCGCAGTCTTCTCCGCGCTGGAGCTAGCGCAGGAGTT
 GCAGGCCAAGCAGCGCTGGGAAGAGCGCTGGCCAACTCAGCCGGGCCACAACCTGAGCCGTGAAGAG
 CTGCGAGGTTTCTCCGCACTACGAGGAAGCCACCAGGGCGGGCATCCGCATGGACAGCGTGCGCCCTC
 GCTGGGACTTACGGGCGCCTTCTACTTCTGTTGAGTACAGTGGTTTCTACCATAGGTTTGGGATGACAAC
 ACCAGCCACAACGGGAGGAAGATTTTTCTGATCTTTATGGTCTCATTGGATGTGCAAGTACCATCCTC
 TTCTTCAACCTTTTCTGGAGCGGCTGATCACTGTCTATCGCCTGTGTCATGAGATCCTGTACCAGCAGC
 AGCTGCGCAGACGTGGGGCGGTGACCCAGGACAACATGAAGGCTCCTGAAAAGGGGGAGGCAGACAGCCT
 GACTGGCTGGAAGCCCTCTGTGTACTACGTCTGCTGATCCTATGCTTGGCATCAGTGGCCATCTCCTGC
 GGAGCCTCTGCTCTGTACACCACCATGGAGGGCTGGAGCTACTTTGACTCGGTCTACTTCTGTTTGTGG
 CTTTCAGCACCATTGGCTTCGGGGACCTGGTGAGCAGCCAGAATGCTCAGTATGAGAGCCAAGGACTCTA
 CCGCTTCTTCAATTTCTCCTCATCCTCATGGGTGTCTGCTGCATCTACTTTTGTAAACGTCACTCC
 ATCCTGATCAAACAGACTGTGAAGTGGATCCTGAGGAACTGGATAGCGGGTGTCTCCACCATGCCAAA
 GAGGACTCCTGCGGTCCAGGAGGAATGTGGTATGCCGGTAACATCCGGAACAGGTGCAACATCTCCAT
 AGAGACAGACGGGTGATGGAAGTGCAGTGTGACGACGCTCTCGGGGGAGATGATCTCCATGAAG
 GACACCAACAAGGTCTCCTGGCCATCCTGCAGAAGCAGTTGTCCGAGATGGCCAATGGGGGACCCACC
 AGAACAGTGATCCTCCCGGATGATGAGTTCTCAGGGGGAGTGGGAGCCTTTCAGTAATGAATAACAG
 GTTGGCAGAGACCAGTGGAGATAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG219456 representing NM_146037
 Red=Cloning site Green=Tags(s)

MAGRGCSPGHLNEDNARFLLLAGLILLYLLGGAAVFSALELAQELQAKQRWEERLANFSRGHNSREE
 LRGFLRHVEEATRAGIRMDSVRPRWDFTGAFYFVGTVVSTIGFGMTTPATTGGKIFLIFYGLIGCASTIL
 FFNLFLERLITVIACVMRSCHQQQLRRRGAVTQDNMKAPEKGEADSLTGWKPSVYVYVMLILCLASVAISC
 GASALYTTMEGWSYFDSVYFCFVAFSTIGFDLVSSQNAQYESQGLYRFFNFFLILMGVCCIIYSLFNVIS
 ILIKQTVNWILRKLDSGCFPPCQRGLLRSRNVVMPGNI RNRNCNISIETDGVME SDT DGRRLSGEMISMK
 DTNKVSLAILQKQLSEMANGGPHQNSASSRDEFSGGVGAFAVMNRLAETSGDR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

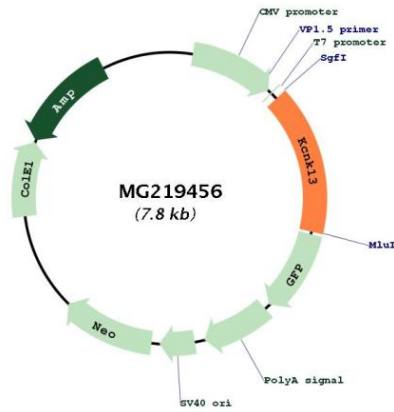
Locus ID: 217826

UniProt ID: [Q8R1P5](#)

Cytogenetics: 12 E

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

Product images:



Circular map for MG219456