OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RR213756

Kcnc4 (NM_001122776) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnc4 (NM_001122776) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnc4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

View online »

ORF Nucleotide Sequence:

>RR213756 representing NM_001122776
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATCAGCTCGGTGTGTGTCTCCTCCTACCGCGGGCGCAAGTCGGGGAACAAGCCTCCGTCCAAAACAT
GTCTGAAGGAGGAGATGGCCAAGGGCGAGGCGTCGGAGAAGATCATCATCAACGTGGGCGGCACGCGACA
TGAGACCTACCGCAGCACCCTGCGCACCCTACCGGGCACCCGCCTTGCCTGGCTGGCGGATCCCGACGGC
GGGGGTCGGCCAGAGTCGGATGGCGGCGGTGCAGGCAGCAGCGGCAGCAGCGGCGGCGGCGGGGGCTGTG
AGTTCTTCTTTGATCGGCACCCGGGTGTTTTTGCCTATGTGCTCAACTACTACCGCACGGGCAAGCTGCA
TTGCCCCGCAGACGTCTGTGGGCCTCTCTTTGAGGAAGAGCTCACTTTCTGGGGTATCGATGAGACAGAT
GTGGAACCCTGCTGCTGGATGACCTACCGGCAGCACCGCGATGCTGAAGAGGCACTGGACATCTTCGAGA
GCCCGGACGGGGGCGGGGGTGGCGCAGGGCCCGGCGACGAGGCTGGAGACGATGAGCGGGAGTTGGCCTT
GCAGCGCCTGGGCCCCCATGAAGGAGGCTCTGGCCCTGGTGCTGGGTCCGGGGGTTGCCGTGGCTGGCAG
CCCCGAATGTGGGCGCTCTTCGAGGACCCGTACTCATCCCGGGCGGCCAGGGTGGTAGCCTTTGCCTCTC
TCTTCTTCATCTTGGTCTCCATTACCACCTTCTGCCTGGAGACCCACGAGGCCTTCAACATTGACCGAAA
TGTGACGGAGATCCACCGGGTAGGGAATATCACCAGCGTGCGCTTCCGGCGGGAGGTAGAAACAGAACCC
ATTCTTACCTACATCGAGGGCGTGTGCGTGATGTGGTTCACTCTAGAGTTCCTGGTTCGCATTGTGTGCT
GCCCTGATACGTTGGACTTTGTCAAGAACCTGCTCAACATCATCGACTTTGTGGCCATCTTGCCCTTTTA
CCTGGAGGTGGGATTGAGTGGCCTGTCATCCAAGGCAGCTCGAGATGTGCTGGGTTTCCTGCGTGTGGTG
CGCTTTGTACGCATCCTGCGGATCTTCAAGCTCACACGCCACTTTGTGGGGCTGCGTGTGCTCGGCCACA
CACTCCGGGCCAGCACCAACGAGTTCCTGCTGCTTATCATCTTCCTGGCCCTGGGTGTGCTCATCTTTGC
CACCATGATCTATTATGCTGAGCGAATCGGGGCCAGGCCATCTGACCCACGGGGCAATGACCACACCGAC
TTCAAGAACATCCCCATCGGTTTCTGGTGGGCTGTGGTCACCATGACAACGCTTGGCTATGGGGACATGT
ATCCTAAGACATGGTCAGGAATGCTGGTGGGTGCGCTGTGTGCACTGGCTGGTGTGCTAACCATTGCCAT
GCCTGTGCCTGTCATCGTCAATAACTTTGGTATGTACTACTCCCTGGCTATGGCCAAGCAGAAGCTTCCC
AAGAAACGAAAGAAGCATGTACCACGGCCACCCCAGCTTGAGTCACCCATTTACTGCAAGTCTGAGGAGA
CTTCACCCCGGGACAGCACCTACAGTGACACCAGCCCCCCTGCCCGGGAAGAGGGTATGGTCGAGAGGAA
ACGAGCAGACTCCAAGCAGAATGGTGACGCTAATGCGGTGCTGTCCGATGAGGAGGGAGCTGGCCTCACC
CAGCCCCTGGCCTCGGCCCCCACCCCTGAAGAGCGTCGAGCCCTGAGACGCTCAGGCACACGGGACAGAA
ACAAGAAGGCAGCTGCCTGCTTCCTGCTCAGTGCTGGGGACTATGCCTGTGCTGATGGCAGTGTCCAGAA
AGAAGGCAGTGTTGAGCCGAAAGCGTGCGTCCCAGTGTCTCACACCTGTGCTCTT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213756 representing NM_001122776
Red=Cloning site Green=Tags(s)

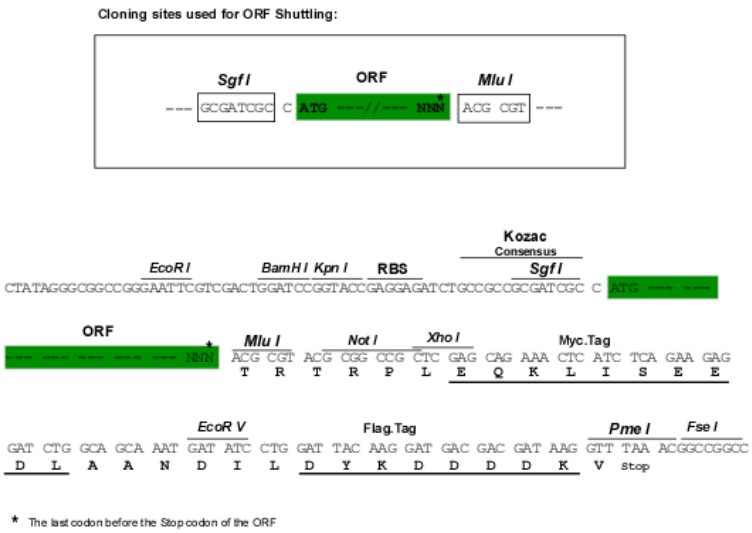
MISSVCVSSYRGRKSGNKPPSKTCLKEEMAKGEASEKIIINVGGTRHETYRSTLRTLPGTRLAWLADPDG
GGRPESDGGGAGSSGSSGGGGGCEFFFDRHPGVFAYVLNYYRTGKLHCPADVCGPLFEEELTFWGIDETD
VEPCCWMTYRQHRDAEEALDIFESPDGGGGGAGPGDEAGDDERELALQRLGPHEGGSGPGAGSGGCRGWQ
PRMWALFEDPYSSRAARVVAFASLFFILVSITTFCLETHEAFNIDRNVTEIHRVGNITSVRFRREVETEP
ILTYIEGVCVMWFTLEFLVRIVCCPDTLDFVKNLLNIIDFVAILPFYLEVGLSGLSSKAARDVLGFLRVV
RFVRILRIFKLTRHFVGLRVLGHTLRASTNEFLLLIIFLALGVLIFATMIYYAERIGARPSDPRGNDHTD
FKNIPIGFWWAVVTMTTLGYGDMYPKTWSGMLVGALCALAGVLTIAMPVPVIVNNFGMYYSLAMAKQKLP
KKRKKHVPRPPQLESPIYCKSEETSPRDSTYSDTSPPAREEGMVERKRADSKQNGDANAVLSDEEGAGLT
QPLASAPTPEERRALRRSGTRDRNKKAAACFLLSAGDYACADGSVQKEGSVEPKACVPVSHTCAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

Cloning Scheme:



ACCN: NM_001122776

ORF Size: 1875 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_001122776.1, NP_001116248.1

RefSeq Size: 2858 bp

RefSeq ORF: 1878 bp

Locus ID: 684516

UniProt ID: Q63734

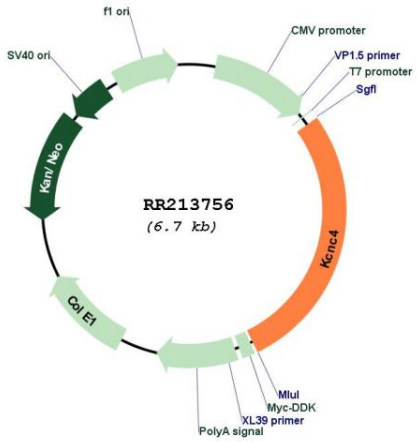
Cytogenetics: 2q34

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

MW: 68.4 kDa

Gene Summary: This protein mediates the voltage-dependent potassium ion permeability of excitable membranes. Assuming opened or closed conformations in response to the voltage difference across the membrane, the protein forms a potassium-selective channel through which potassium ions may pass in accordance with their electrochemical gradient.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR213756

This product is to be used for laboratory only. Not for diagnostic or therapeutic use.
©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US