

Product datasheet for **MG209572**

Kcnc4 (NM_145922) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnc4 (NM_145922) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Kcnc4
Synonyms:	AI850292; Kcr2-4; KSHIIC; Kv3.4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG209572 representing NM_145922
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATCAGCTCGGTGTGTCTCTCTACCGCGGGCGAAGTCGGGAACAAGCCTCCGTCCAAAACAT
 GTCTGAAGGAGGAGATGGCCAAGGGCGAGGCGTCGGAGAAGATCATCATCAACGTGGGCGGCACCGGACA
 TGAGACCTACCGCAGCACCCCTGCGCACCCCTACCGGCACCCGCTTGCCTGGTTGGCGGATCCCGACGGC
 GGGGGTCGGCCAGAGTCGGATGGCGGGGTGCAGGCAGCAGCGGCAGCAGCGGGCGGGCGGGCGGGC
 GGGGCTGTGAGTTCTTCTTTGATCGGCACCCGGGTGTTTTGCCTATGTGCTCAACTACTACCGTACGGG
 CAAGCTGCATTGCCCGCAGACGCTGTGGCCTCTCTTTGAGGAAGAGCTCACCTTCTGGGGTATCGAT
 GAAACAGATGTGGAACCTGCTGCTGGATGACCTACCGGCAGCACCGGATGCTGAGGAGGCACTGGACA
 TCTTCGAGAGCCCGACGGGGCGGGGTGGCGCAGGGCCAGGCGACGAGGCTGGCGACGATGAGCGGGA
 GTTGGCCTTGACGCGCTGGGCCCCATGAAGGAGGCTCTGGCCCTGGTCTGGTCCGGAGGGTGCCGT
 GGCTGGCAGCCCGAATGTGGCGCTCTTCGAGGATCCCTACTCATCCCGGGCGGCCAGGGTGGTAGCCT
 TTGCCTCTCTCTTCTTATCTTGGTCTCCATTACCACCTTCTGCCTGGAGACCCATGAGGCCCTTCAACAT
 TGACCGAAACGTGACGGAGATTCATCGGGTAGGGAATATCACCAGCGTGCCTTCCGGCGGGAGGTAGAA
 ACAGAGCCCATCTTACCTACATCGAGGGTGTGTGCGTGTGGTTCACTCTAGAGTTCTGGTTTCGCA
 TTGTGTGCTGCCCTGATACGCTGGACTTTGTCAAGAACTGTCTCAACATCATCGACTTTGTGGCCATCTT
 ACCCTTTTACCTGGAGGTGGGATTGAGTGGTTGTCTTCAAGGCAGCTCGCGATGTGCTGGGTTTCTGT
 CGTGTGGTACGCTTTGTACGCATCTCGCGATCTTCAAGCTCACACGCCACTTTGTGGGGTGGTGTGC
 TAGGCCACACTCTCCGGGCCAGCACTAATGAGTTCCTGTTGCTTATCATCTTCTTGGCCCTGGGTGTGCT
 CATCTTCCGCCACCATGATCTATTATGCCGAGCGAATTGGGGCCAGGCCATCTGACCCACGGGCAACGAC
 CACACCGACTTCAAGAACATCCCCATCGGTTTCTGGTGGGCTGTGGTACCATGACAACGCTTGGCTATG
 GGGACATGTATCCCAAGACGTGGTCAAGAAATGTTGGTGGGTCGCTGTGTGCGCTGGCTGGTGTGCTGAC
 CATTGCCATGCCCGTGCCTGTATCGTCAATAACTTTGGTATGTACTACTCCCTGGCTATGGCCAAGCAG
 AAGCTGCCAAGAAGCGAAAGAAGCACGTACCACGGCCACCCAGCTCGAATCGCCATTTACTGCAAGT
 CTGAGGAGACTTACCCCGGGACAGCACCTACAGTGACACCAGCCCCCTGCCGGGAAGAGGGTGTGGT
 CGAGAGGAAACGGGCCACTTAAAGCAGAATGGCGATGCTAATGCGGTGTGTCTGATGAGGAGGGAGCT
 GGCTCACTCAGCCCTTGGCCTTGGCCCCACCCCTGAAGAGCGTCGGGCCCTGAGACGCTCAGGCACGC
 GGGACAGAAACAAGAAGGCAGCTGCCTGCTTCTGCTCAGTGCTGGGGACTATGCCTGTGCTGATGGCAG
 TGTCGGAAAGAAGGCAATGTTGAGCCGAAAGCGTGCCTCCAGTGTCTCACACCTGTGCTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG209572 representing NM_145922
 Red=Cloning site Green=Tags(s)

MISSVCVSSYRGRKSGNKPPSKTCLKEEMAKGEASEKIIINVGGRHETRYRSTLRRLPGTRLAWLADPDG
 GGRPESDGGGAGSSGSSGGGGGGGCEFFDRHPGVFAYVLNYYRTGKLHCPADVCGPLFEEELTFWGDID
 ETDVEPCWMTYRQHRDAEEALDIFESPDGGGGGAGPGDEAGDDERELALQRLGPHEGGSGPGAGSSGCR
 GWQPRMWALFEDPYSSRAARVAFASLFFILVSITTFCLETHEAFNIDRNVTEIHRVGNITSVRFRRREVE
 TEPILTYIEGVCVMWFTLEFLVRIVCCPDTLDFVKNLLNIIDFVAILPFYLEVGLSGLSSKAARDVLFGL
 RVVRFVRLRIFKLRHFVGLRVLGHTLRASTNEFLLLIIFLALGVLIFATMIYYAERIGARPSDPRGND
 HTDFKNIPIGFWWAVVTMTTLGYGDMYPKTWSGMLVGALCALAGVLTIAMPPVIVNFMGYSLAMAKQ
 KLPKRRKHKVPRPPQLESPIYCKSEETSPRDSTYSSTSPAREEGVVERKRAVSKQNGDANAVLSDDEEGA
 GLTQPLALAPTPEERRALRRSGTRDRNKAACFLLSAGDYACADGSRKEGNVEPKACVPSHTCAL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_145922

ORF Size: 1884 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_145922.3](#)

RefSeq Size: 3013 bp

RefSeq ORF: 1887 bp

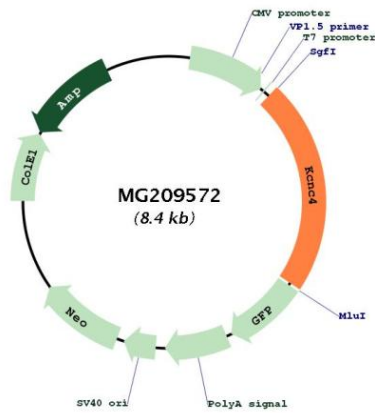
Locus ID: 99738

UniProt ID: [Q8R1C0](#)

Cytogenetics: 3 46.83 cM

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 (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209572