

Product datasheet for **MC201943**

Kcnc4 (NM_145922) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnc4 (NM_145922) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnc4
Synonyms:	AI850292; Kcr2-4; KSHIIC; Kv3.4
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC024837 sequence for NM_145922
 CGCTTCTTATGATCAGCTCGGTGTGTGTCTCCTCTACCGCGGGCGCAAGTCGGGGAACAAGCCTCCGTC
 CAAAACATGTCTGAAGGAGGAGATGGCCAAGGGCGAGGCGTCGGAGAAGATCATCATCAACGTGGGCGGC
 ACGCGACATGAGACCTACCGCAGCACCTGCGCACCTACCGGGCACCCGCTTGCCTGGTTGGCGGATC
 CCGACGGCGGGGTGCGCCAGAGTCGGATGGCGGGGTGCAGGCAGCAGCGGCAGCAGCGGGCGGGCGG
 CGGCGGGGGGCTGTGAGTTCTTTTGTGATCGGCACCCGGGTGTTTTTGCCTATGTGCTCAACTACTAC
 CGTACGGCAAGCTGCATTGCCCGCAGACGTCTGTGGCCTCTCTTTGAGGAAGAGTCAACCTTCTGGG
 GTATCGATGAAACAGATGTGGAACCCTGCTGCTGGATGACCTACCGGCAGCACCGCGATGCTGAGGAGGC
 ACTGGACATCTTCGAGAGCCCGGACGGGGCGGGGTGGCGCAGGGCCAGGCGACGAGGCTGGCGACGAT
 GAGCGGGAGTTGGCCTTGCAGCGCCTGGGCCCCCATGAAGGAGGCTCTGGCCCTGGTGTGGTCCGGAG
 GGTGCCGTGGCTGGCAGCCCGAATGTGGGCGCTCTTCGAGGATCCCTACTATCCCGGGCGGCCAGGGT
 GGTAGCCTTTGCCTCTCTTCTTTCATCTTGGTCTCCATTACCACCTTCTGCCTGGAGACCCATGAGGCC
 TTCAACATTGACCGAAACGTGACGGAGATTCATCGGGTAGGGAATATACCAGCGTGCCTTCCGGCGGG
 AGGTAGAAACAGAGCCATTCTTACCTACATCGAGGGTGTGTGCGTGATGTGGTTCACTCTAGAGTTCT
 GGTTCGATTGTGTGCTGCCCTGATACGCTGGACTTTGTCAAGAACTTGTCAACATCATGACTTTGTG
 GCCATCTTACCCTTTTACCTGGAGGTGGATTGAGTGGTTTGTCTTCCAAGGCAGCTCGCGATGTGCTGG
 GTTTCCTGCGTGTGGTACGCTTTGTACGCATCCTGCGGATCTTCAAGCTCACACGCCACTTTGTGGGGCT
 GCGTGTGCTAGGCCACACTCTCCGGGCCAGCACTAATGAGTTCCTGTTGCTTATCATCTTCTTGGCCCTG
 GGTGTGCTCATCTTCGCCACCATGATCTATTATGCCGAGCGAATTGGGGCCAGGCCATCTGACCCACGGG
 GCAACGACCACACCGACTTCAAGAACATCCCCATCGGTTTCTGGTGGGCTGTGGTACCATGACAACGCT
 TGGCTATGGGGACATGTATCCAAAGACGTGGTCAGGAATGTTGGTGGGTGCGCTGTGTGCGCTGGCTGGT
 GTGCTGACCATGGCCATGCCCGTGCCTGTCATCGTCAATAACTTTGGTATGTACTACTCCCTGGCCATGG
 CCAAGCAGAAGCTGCCCAAGAAGCGAAAGACAGTACCACGGCCACCCAGCTCGAATCGCCCATTTA
 CTGCAAGTCTGAGGAGACTTACCCCGGGACAGCACCTACAGTGACACCAGCCCCCTGCCCGGGAAGAG
 GGTGTGGTTCGAGAGGAAACGGGCGACTCTAAGCAGAATGGCGATGCTAATGCGGTGCTGTCTGATGAGG
 AGGGAGCTGGCCTCACTCAGCCCTTGGCCTTGGCCCCACCCCTGAAGAGCGTCGGGCCCTGAGACGCTC
 AGGCACGCGGGACAGAAACAAGAAGGCAGCTGCCTGCTTCTGCTCAGTGTGGGACTATGCCTGTGCT
 GATGGCAGTGTCCGAAAGAAGGCAATGTTGAGCCGAAAGCGTCCGTCACAGTGTCTCACACCTGTGCTC
 TTTAAACACAGAGACCTGCCAAGACGCCCTCTCGTCCAATATGCCACGCTGAAGTCTCACCCCTCTCT
 TAGAGTGGCGCAACGTGAGAAAGACAGACAGACAGACAGAAAGCCAGAGGCTTAGGAAAACCTCTG
 GAACCCAGGCACGAATCTTTTGTGGGAAAGACTCAGATATCCTTGTGTTGCACAAGACTGGTGGAAAAAC
 CTCCCATGCGACTCTCAGGGCCAGAGCCATCTGGGTCTGATACTCTGTTCTACTGTACATTGAAGAGAC
 ATATATGCACATATAGTATCTATATTACATACATACTATATACTCTTGTGTGATGACAGTGTACTGGT
 GGTCTGTCTTCATCGTTAGGCTATGTCTCCCAAGTCTCTTCCCACCCTGTTTCCCTCCTCCCTTCCCT
 CATGGATTGTTTCTTCTGACCACGTGTATGGGATATCCAGGAAATGTGTCCCTGGGACCTGCCCTCCA
 GCTGGGTGGTCCCAGGCTGCTCTCACTTGGGGATGTTTCCCTGCCAGCAGGTGGCCTGTTGAAGTCAGT
 TGAAGGCAAGATTGCCCTCCGGGGTCACTGCTTCACTAGCCCAACCCACCCAGATTGGGGTCTACCT
 CCCACCCACACCCAGTTTGTGGGGCATTCTAGGGGCTCTTTTGCAGCCTCTGTCACTCCTTCCAATG
 CCCCTTCTGTGTCTGTGATAGGGGGAATTTCAATTTCTTTTGTGTGTCTCCTTTGCCATTTCTTTTCAA
 GATGCTGCTGGGCAGATGGAAGGGGATCTGTTTGGCCATCTGGCTCAGGGGTCTGAGAAGGGGACACCTC
 GGGCGAGAGGAGACCAGTTGCAATACTGTACTTCTGGCCAGTGCCAGAGGATGCGTGCAATAGCAGAG
 GCCGGGTGACCCCTTACGCTTGGCCTCTGCCCTCCCTCAGCCCTTCTGCCCATCCTTGGTATTGGTC
 AGTCTTTTCTAAAGCTGTCTTGTGTGTGTGTCTGAGGCACGCCTAGGCTGGGCCACTGTGCCCTG
 TTTGCATGCCCTCAACTGTATGCTGTGCTCGAGTACCAATAAAGACATCCGAGTGTCTGCTGCTCCTC
 TGAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_145922
Insert Size: 1887 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	BC024837 , AAH24837
RefSeq Size:	3036 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]