

Product datasheet for **MR207916**

Kcnf1 (NM_201531) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnf1 (NM_201531) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnf1
Synonyms:	Gm1182; Kv5.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207916 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGACGCATCTGCTGAGCAAAGCCTCCCGGAGCCAGGCAGCCAGGACTCCGTGGCAGGCGAAGACATTG
 AGATCGTGGTAAATGTGGGGGGCGTGCAGCAGGTGCTCTACGGAGACCTGCTCAGCCAGTACCCTGAGAC
 CCGGTTGGCAGAGCTCATCAACTGTTTGGCGGGGGCTACGACACCATCTTCTCTGTGCGACGATTAC
 GATCCGGGCAAGCGCAATTCTACTTTGACCGGACCCAGACGCGTTCAAGTGTGTCAATTGAGGTATACT
 ATTTCCGGGAGGTCCACATGAAGAAGGGCATTGCCCCATCTGCTTCAAGAACGAGATGGACTTCTGGAA
 GGTGGACCTCAAATTCCTGGATGACTGTTGCAAGGCCATCTGAGCGAGAAGCGCGAGGAGCTGGAGGAG
 ATCGCGCGCAGGGTGCAGCTCATCTGGACGACCTGGGTGTTGACGCTGCTGAGGGCCGCTGGCGCCGCT
 GCCAGAAGTGTGTCTGGAAGTCTAGAGAAGCCGGAGTCTTCATGCCCTGCGCGGTGGTGGCGGTTCT
 ATCCTTCTGCTCATCTTGTCTCCTCCGTGGTCAATGTGCATGGGTACCATACCCGAGCTGCAAGTGGTG
 GACTCCGAAGGCAACCGCGTGGAGCACCAACGCTGGAGAACGTAGAGACGGCTTGCATCGGCTGGTTCA
 CTCTGGAGTACCTGCTGCGCCTTCTCATCGCCAACAAGCTTCACTTTGCCCTGTCCTTCATGAACAT
 CGTGGATGTGCTGGCCATTCTCCCTTCTATGTGAGCCTCACACTCACGCACCTGGGCGCAAGAATGATG
 GAGCTGACCAACGTACAGCAGGCAGTGCAGGCCCTGAGGATCATGCGCATCGCACGCATCTCAAACCTGG
 CCCGCCACTCTCCGGCTGCAGACCCTCACCTACGCCCTCAAGCGCAGTTTCAAGGAACGGGGCTATT
 GCTTATGTATCTGGCCGTGGGCATCTTCGTCTTTCCGCACTGGGCTACACCATGGAGCAGAGCCATCCT
 GAAACTCTGTTCAAGAGCATCCCCAGTCTTCTGGTGGGCTATCATCACCATGACCACAGTGGGTAATGC
 GTGACATCTACCCAAGACCACCTCTGGCAAGCTCAACGCAGCCATCAGCTTCTGTGTGGGGTAAATGC
 CATTGCCCTGCCATTACCCCATCATTAACTTTGTCAGGTAACAACAACAACGCTGTCCTGGAG
 ACGGCAGCCAAGCATGAGCTGGAGCTGATGGAGCTCAACTCCAGCAGTGAGAAGGCAAGCCCGGGGTT
 CTCGACGACCTGGACACCCTGCCCCAGAGCCTGCTGCCAGGAGGGGCAAGCTGGGGTAGCCGGCT
 GAAGCTCTCACACAGCGATACCTTATCCCTGCTGACAGAGGAGAAGCATCATAGGACCCGCCTACAG
 AGTTGCAAG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207916 protein sequence
 Red=Cloning site Green=Tags(s)

MDASAEQSLPEPGSQDSVAGEDIEIVNVGGVRQVLYGDLLSQYPETRLAELINCLAGGYDTIFSLCDDY
 DPGKREFYFDRDPDAFKCVIEVYFGEVHMKKGICPICFKNEMDFWKVDLKLDDCKSHLSEKREELEE
 IARRVQLILDDLGVDAEGRWRRQKCVWKFLEKPESSCPARVAVLSFLLILVSSVVMCMGTIPELQVV
 DSEGNRVEHPTLENVETACIGWFTLEYLLRFLSSPNKLFALSFMNIVDVLAAILPFYVSLTLTHLGARM
 ELTNVQAVQALRIMRIARIFKLARHSSGLQTLTYALKRSFKELGLLLMYLAVGIFVFSALGYTMEQSH
 P ETLFKSIQSFWWAITMTTVGYGDIYPKTTLGKLNAAISFLCGVIAIALPIHPIINNFVRYNKRQVLE
 TAAKHELELMELNSSAEGKPGGSRSDLTLPPEPAAREGPSWGSRLKLSHSDTFIPLLTEKHHRTRLQ
 SCK

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_201531

ORF Size: 1482 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_201531.2](#)

RefSeq Size: 4819 bp

RefSeq ORF: 1518 bp

Locus ID: 382571

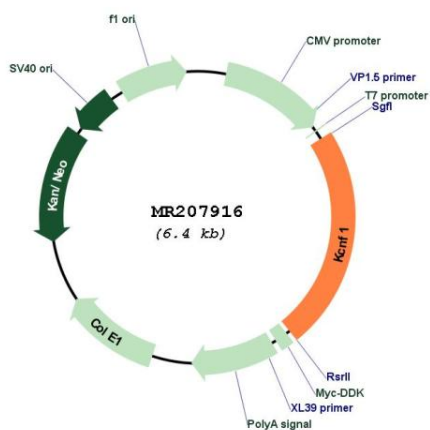
UniProt ID: [Q7TSH7](#)

Cytogenetics: 12 A1.1

MW: 55.6 kDa

Gene Summary: Putative voltage-gated potassium channel.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207916