

Product datasheet for **SC118767**

KCNF1 (NM_002236) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNF1 (NM_002236) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNF1
Synonyms:	IK8; KCNF; KH1; KV5.1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC118767 sequence for NM_002236 edited (data generated by NextGen Sequencing)

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ATGGACGGGTCCGGGAGCGCAGCCTCCCGAGCCGGGCAGCCAGAGCTCCGCTGCCAGC
GACGACATAGAGATAGTCGTCAACGTGGGGGGCGTGCGGCAGGTGCTGTACGGGGACCTC
CTCAGTCAGTACCCTGAGACCCGGCTGGCGGAGCTCATCAACTGCTTGGCTGGGGGCTAC
GACACCATCTTCTCCCTGTGCGACGACTACGACCCCGCAAGCGCGAGTTCTACTTTGAC
AGGGACCCGGAGCCTTCAAGTGTGTCAATCGAGGTGTAATTTTCGGGGAGGTCCACATG
AAGAAGGGCATCTGCCCATCTGCTTCAAGAACGAGATGGACTTCTGGAAGGTGGACCTC
AAGTTCCTGGACGACTGTTGCAAGAGCCACCTGAGCGAGAAGCGCGAGGAGCTGGAGGAG
ATCGCGCGCCGCGTGACGCTCATCTGGACGACCTGGGCGTGGACGCGGCCGAGGGCCGC
TGGCGCCGCTGCCAGAAGTGCCTGCTGGAAGTTCCTGGAGAAGCCCGAGTCGTCGTGCCCG
GCGCGGTGGTGGCCGCTCTCCTTCTGCTCATCTCGTCTCGTCCGTGGTCAATGTGC
ATGGGCACCATCCCCGAGCTGCAGGTGCTGGACGCCGAGGGCAACCGCTGGAGCACCCG
ACGCTGGAGAACGTGGAGACGGCGTGCATTGGCTGGTTACCCTGGAGTACCTGCTGCC
CTTTCTCGTACCCAACAAGCTGCACTTCGCGCTGCCTTCATGAACATTGTGGACGTG
CTGGCCATCTCCCTTCTACGTGAGCCTCACGCTCACGACCTGGGTGCCCGCATGATG
GAGCTGACCAACGTGCAGCAGGCCGTGCAGGCGTGCAGGATCATGCGCATCGCGGCATC
TTCAAGCTGGCCCGCACTCCTCGGCCTGCAGACCTCACATATGCCCTCAAGCGCAGC
TTCAAGGAACTGGGGCTGCTGCTCATGTACCTGGCAGTGGGTATCTTCGTCTTCTGCC
CTGGGCTACACCATGGAGCAGAGCCATCCAGAGACCTGTTTAAGAGCATCCCCAGTCC
TTCTGGTGGGCCATCATACCATGACCACCGTCCGCTACGGCGACATCTACCCAAGACC
ACGCTGGCAAGTCAACGCGGCCATCAGCTTCTGTGTGGTGTATCGCCATCGCCCTG
CCATCCACCCCATCATCAACAACCTTTGTCAGTACTACAACAAGCAGCGCGTCTGGAG
ACCGCGGCAAGCACGAGCTGGAGCTGATGGAACCAACTCCAGCAGCGGGGGCGAGGGC
AAGACCGGGGCTCCCGCAGTGACCTGGACAACCTCCCTCCAGAGCTGCGGGGAAGGAG
GCGCCGAGCTGCAGCAGCCGGCTGAAGCTCTCCACAGCGACACCTTCATCCCCCTCTG
ACCGAGGAGAAGCACACAGGACCCGGCTCCAGAGTTGCAAGTGA
    
```

Clone variation with respect to NM_002236.4
468 a=>g

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_002236 unedited
GCACGAGGCTCGGGCAAAGCCAGCCCAAGTTTCGCTCTCTGCACACCTCGAGCACCTCGCG
GACGGCGTGGGTCCGCCAGCTCCGGGACCTGCCGCGCTGCCTGCGCGCCCCGGGGCGGA
GGACGGTGCCAGCCGCCACGAGGAGACCCTGCTCCCGCAGGAGGCCGAGCTGAAGCGGC
GGAGCGCGCCGCCAGCCAGCCGGGGTGAAGTCCCCGGGGCAGGCCGGCGGCCGCCAAAGC
CCCCGCGGGCTCGCCCGGGCGCCGGATGCCAGCCCGAGCCCCGCGCGGGTGCATGC
CTCCCCCGGGCGGCCCGCCAGGCTGCTGCCGCTGTGACCCGCTTCCCCGAGGCG
GGCGCCGCCAGGCTCTCCCGAGATCAGCGCACGGGTGGCACCCCGCGGACCCCGAGCG
GCAGCGCGCGGGCGGCTGCAGGGGCGCGGGGCGGAGGCTGCGAGGATACA
    
```

Restriction Sites:

NotI-NotI

ACCN:

NM_002236

Insert Size:

1350 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_002236.4](#), [NP_002227.2](#)

RefSeq Size: 2304 bp

RefSeq ORF: 1485 bp

Locus ID: 3754

UniProt ID: [Q9H3M0](#)

Cytogenetics: 2p25.1

Domains: K_tetra, ion_trans

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

Gene Summary: Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, subfamily F. This gene is intronless and expressed in all tissues tested, including the heart, skeletal muscle, brain, kidney, and pancreas. [provided by RefSeq, Jul 2008]