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 SC318938

KCNC1 (NM_001112741) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNC1 (NM_001112741) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNC1
Synonyms:	EPM7; KV3.1; KV4; NGK2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

```
>OriGene ORF sequence for NM_001112741 edited
ATGGGCCAAGGGGACGAGAGCGAGCGCATCGTGATCAACGTGGGCGGCACGCGCCACCAG
ACGTACCGCTCGACCCTGCGCACGCTGCCCGGCACGCGGCTCGCCTGGCTGGCGGAGCCC
GACGCCCACAGCCACTTCGACTATGACCCGCGTGCTGACGAGTTCTTCTTCGACCGCCAC
CCCGGCGTCTTCGCGCACATCCTGAACTACTACCGCACGGGCAAGCTGCACTGCCCAGCC
GACGTGTGCGGGCCGCTCTACGAGGAGGAGCTGGCCTTCTGGGGCATCGACGAGACCGAC
GTGGAGCCCTGCTGCTGGATGACGTACCGCCAGCACCGCGACGCCGAGGAGGCTCTGGAC
AGCTTCGGCGGCGCTCCTCTGGACAACAGCGCCGACGACGCGGACGCCGACGGCCCTGGC
GACTCGGGCGACGGCGAGGACGAGCTGGAGATGACCAAGCGCCTGGCGCTCAGTGACTCC
CCGGATGGCCGGCCTGGCGGCTTTTGGCGCCGCTGGCAGCCGCGCATCTGGGCGCTCTTC
GAGGACCCGTACTCGTCCCGCTACGCGCGGTATGTGGCCTTCGCTTCCCTCTTCTTCATC
CTGGTCTCCATCACCACCTTCTGCCTGGAGACCCACGAGCGCTTCAACCCCATCGTGAAC
AAGACGGAGATCGAGAACGTTCGCAATGGCACGCAAGTGCGCTACTACCGGGAGGCCGAG
ACGGAGGCCTTCCTTACCTACATCGAGGGCGTCTGTGTGGTCTGGTTCACCTTCGAGTTC
CTCATGCGTGTCATCTTCTGCCCCAACAAGGTAGAGTTCATCAAGAACTCGCTCAACATC
ATTGACTTTGTGGCCATCCTGCCCTTCTACCTGGAGGTGGGGCTGAGCGGCCTGTCCTCC
AAGGCAGCCAAGGACGTGCTGGGCTTCCTGCGCGTCGTCCGCTTCGTGCGCATCTTGCGC
ATCTTTAAGCTGACCCGCCACTTTGTGGGCCTGCGGGTCCTGGGCCACACGCTCCGAGCC
AGCACCAACGAGTTCCTGCTGCTCATCATCTTCCTGGCCTTGGGCGTGCTGATCTTCGCC
ACCATGATCTACTACGCCGAGAGGATAGGGGCACAGCCCAATGACCCCAGCGCCAGTGAG
CACACGCACTTTAAGAACATCCCCATCGGCTTCTGGTGGGCCGTGGTCACCATGACGACC
CTGGGCTATGGAGACATGTACCCGCAGACGTGGTCCGGCATGCTGGTGGGGGCTCTGTGT
GCGCTGGCGGGCGTGCTCACCATCGCCATGCCCGTGCCCGTCATCGTGAACAATTTCGGG
ATGTATTACTCCTTAGCCATGGCTAAGCAGAAACTACCAAAGAAAA:AAAAGAAGCATAT
TCCGCGGCCACCGCAGCTGGGATCTCCCAATTATTGTAAATCTGTCGTAAACTCTCCACA
CCACAGTACTCAGAGTGACACATGTCCGCTGGCCCAGGAAGAAATTTTAGAAATTAACAG
AGCAGATTCCAAACTGAATGGGGAGGTGGCGAAGGCCGCGCTGGCGAACGAAGACTGCCC
CCACATAGACCAGGCCCTCACTCCCGATGAGGGCCTGCCCTTTACGCGCTCGGGCACCCG
CGAGAGATACGGACCCTGCTTCCTCTTATCAACCGGGGAGTACGCGTGCCCACCTGGTGG
AGGAATGAGAAAGGATCTTTGCAAAGAAAGCCCTGTCATTGCTAAGTATATGCCGACAGA
GGCTGTGAGAGTGACTTGA
```

Restriction Sites: Please inquire

ACCN: NM_001112741

Insert Size: 2900 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001112741.1, NP_001106212.1
RefSeq Size:	3134 bp
RefSeq ORF:	1758 bp
Locus ID:	3746
UniProt ID:	P48547
Cytogenetics:	11p15.1
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	This gene encodes a member of a family of integral membrane proteins that mediate the voltage-dependent potassium ion permeability of excitable membranes. Alternative splicing is thought to result in two transcript variants encoding isoforms that differ at their C-termini. These isoforms have had conflicting names in the literature: the longer isoform has been called both "b" and "alpha", while the shorter isoform has been called both "a" and "beta" (PMIDs 1432046, 12091563). [provided by RefSeq, Oct 2014] Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments and orthologous data.