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 SC118715

KCNS3 (NM_002252) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNS3 (NM_002252) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNS3
Synonyms:	KV9.3
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF within SC118715 sequence for NM_002252 edited (data generated by NextGen Sequencing)

ATGGTGTTTGGTGAGTTTTTCCATCGCCCTGGACAAGACGAGGAACTTGTCAACCTGAAT
GTGGGGGGCTTTAAGCAGTCTGTTGACCAAAGCACCCTCCTGCGGTTTCCTCACACCAGA
CTGGGGAAGCTGCTTACTTGCCATTCTGAAGAGGCCATTCTGGAGCTGTGTGATGATTAC
AGTGTGGCCGATAAGGAATACTACTTTGATCGGAATCCCTCCTTGTTCAGATATGTTTTG
AATTTTTATTACACGGGGAAGCTGCATGTCATGGAGGAGCTGTGCGTATTCTCATTCTGC
CAGGAGATCGAGTACTGGGGCATCAACGAGCTCTTCATTGATTCTTGCTGCAGCAATCGC
TACCAGGAACGCAAGGAGGAAAACCACGAGAAGGACTGGGACCAGAAAAGCCATGATGTG
AGTACCGACTCCTCGTTTGAAGAGTCGTCTCTGTTTGAGAAAGAGCTGGAGAAGTTTGAC
ACACTGCGATTTGGTCAGCTCCGGAAGAAAATCTGGATTAGAATGGAGAATCCAGCGTAC
TGCCTGTCCGCTAAGCTTATCGCTATCTCCTCCTTGAGCGTGGTGCTGGCCTCCATCGTG
GCCATGTGCGTTCACAGCATGTCGGAGTTCCAGAATGAGGATGGAGAAGTGGATGATCCG
GTGCTGGAAGGAGTGGAGATCGCGTGCATTGCCTGGTTCACCGGGGAGCTTGCCGTCCGG
CTGGCTGCCGCTCCTTGTCAAAAGAAATTCTGGAAAAACCCTCTGAACATCATTGACTTT
GTCTCTATTATTCCCTTCTATGCCACGTTGGCTGTAGACACCAAGGAGGAAGAGAGTGAG
GATATTGAGAACATGGGCAAGGTGGTCCAGATCCTACGGCTTATGAGGATTTTCCGAATT
CTAAAGCTTGCCCGGCACTCGGTAGGACTTCGGTCTCTAGGTGCCACACTGAGACACAGC
TACCATGAAGTTGGGCTTCTGCTTCTCTTCCTCTCTGTGGGCATTTCCATTTTCTCTGTG
CTTATCTACTCCGTGGAGAAAGATGACCACACATCCAGCCTCACCAGCATCCCCATCTGC
TGGTGGTGGGCCACCATCAGCATGACAACTGTGGGCTATGGAGACACCCACCCGGTCACC
TTGGCGGGAAAGCTCATCGCCAGCACATGCATCATCTGTGGCATCTTGGTGGTGGCCCTT
CCCATCACCATCATCTTCAACAAGTTTTCCAAGTACTACCAGAAGCAAAAGGACATTGAT
GTGGACCAGTGCAGTGAGGATGCACCAGAGAAGTGTCATGAGCTACCTTACTTTAACATT
AGGGATATATATGCACAGCGGATGCACGCCTTCATTACCAGTCTCTCTTCTGTAGGCATT
GTGGTGAGCGATCCTGACTCCACAGATGCTTCAAGCATTGAAGACAATGAGGACATTTGT
AACACCACCTCCTTGGAGAATTGCACAGCAAAATGA

Clone variation with respect to NM_002252.3
1348 a=>g

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002252 unedited
NGTTCAGATTTGTATACGACTCCTATAGGGCGGCCGCGAATTCGCACGAGGGAAGAGCGA
ACCCAGGCCCTTGCTCTCGTGCAGCGCTGCGCCCTGGGTGGGGACGGCGTGAGGCTTGCA
GCGCAGGTGAGAGTGATTTTCCAGTGATTGCTTTGGCCTGTACAACCAGAGAACAGGATT
CTTCCCTTCTTTTTGGCCACCAAATGCCTATGTGCACCACACATTCCAGTGTGCTGAGAA
GGGCAGAGCTTCTTGGATGATGATGGACGTCCCACCGGGCAGGATGAAGGCAGAGCGTGT
GGCATCTCCACCTCAAGGGTGCAGCCTGATCTTCCTCTTCTCCCTTGCCAGCCAGCACTC
TGCCTTCTGTATCCACCATGGTGTTTGGTGAGTTTTTCCATCGCCCTGGACAAGACGAGG
AACTTGTCAACCTGAATGTGGGGGGCTTTAAGCAGTCTGTTGACCAAAGCACCCTCCTGC
GGTTTCCTCACACCAGACTGGGGAAGCTGCTTACTTGCCATTCTGAAGAGGCCATTCTGG
AGCTGTGTGATGATTACAGTGTGGCCGATAAGGAATACTACTTTGATCGGAATCCCTCCT
TGTTCAGATATGTTTTGAATTTTTATTACACGGGGAAGCTGCATGTCATGGAGGAGCTGT
GCGTATTCTCATTCTGCCAGGAGATCGAGTACTGGGGCATCAACGAGCTCTTCATTGATT
CTTGCTGCAGCAATCGCTACCAGGAACGCAAGGAGGAAACCACGAGAAGGACTGGGACCA
GAANAGCCATGATGTGAGTACCGACTCCTCGCTTGAAGATCGTCTCTGTTTGAGAAAGAC
TGGAGAAGTTTGACCACTGCGATTTGGTCAGCTCCGGAAGAAATCTGGATAGAATGGAGA
ATCCAC

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_002252 unedited
GCGGGGCGGGGNGAGNAGGNCCCACCCCACCCAGCTTTTTTGCTACAGCAGACTTTATGC
TCCTATTTCCTGTTTACAACATGACTGGTTTTACATGCATTGTCTCATTTTGTCGGATCT
TACATGCATGTCGTCTCAGTCAGCTGCACCTTTGATTCTACTTGTCAGTAATTTAAAGTT
AGCTCAATGTGAGTAAATGACAAACACAGAATGATGCATAAGCTGTAGCCACAAACCCCA
CCCAATACCATTTATCTTATATTCCAAACTATATCACAACTCTCTCTTGTAAAAAATAAA
TTTCAAAACAAGGCATTTAATTGACCTCACACAGAAAAATAAAGACAATTCTATCATTCT
CAGAATTCAGCAATGAATGTCCAACTATGGCTGAAAGGTACACCCTGAGAATTAAATGAT
TTTAACGAACCCACTGAGGTTTATAAAGCTGTGTTAACCTAATGTTGGGAAAGGATAATA
TAAACAGGCACAAACACCCCCGCTCATTTTGCTGTGCATTTCTCCAAGGAGGTGGCGCTA
CAAATGCCCTCATTGTCTTTAAATGCTTGAAGTATCTGTGGAGTCAGGATCGCTAACCAC
AATGCCTACACAAGAGACACTGGTATTGAAAGCGTGCATTCGCCGCCCCTATATATCCTA
ATGTTAAAGATAGGGCGCTAATGACCCTTCTCTGGGGCATCCTCACTGCCCTGGTCCACT
TCCAAGTTTTTACCACTTCTGGCAATATCTTTATAACTCGCTCGCACATCACGGTTATGG
GGATGAGCCTCCATACAGTTGCCTTCAACCTGCCTTTTCCCGGCAAGTACCATCTCCCCC
GGGTGCCCCCGCATGGCCCATTCCCTACACAAATTCTTCATCCATTAATTTTAATTCCAC
CCACATTCTCCGCTCCTCCTTCATGT
```

Restriction Sites: NotI-NotI

ACCN: NM_002252

Insert Size: 2500 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:
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_002252.3, NP_002243.3

RefSeq Size: 2344 bp

RefSeq ORF: 1476 bp

Locus ID: 3790

UniProt ID: Q9BQ31

Cytogenetics: 2p24.2

Domains: BTB, K_tetra, ion_trans

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

Gene Summary: Voltage-gated potassium channels form the largest and most diversified class of ion channels and are present in both excitable and nonexcitable cells. Their main functions are associated with the regulation of the resting membrane potential and the control of the shape and frequency of action potentials. The alpha subunits are of 2 types: those that are functional by themselves and those that are electrically silent but capable of modulating the activity of specific functional alpha subunits. The protein encoded by this gene is not functional by itself but can form heteromultimers with member 1 and with member 2 (and possibly other members) of the Shab-related subfamily of potassium voltage-gated channel proteins. This gene belongs to the S subfamily of the potassium channel family. Alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Sep 2013]
Transcript Variant: This variant (1) and variant 2 encode the same protein.