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Product datasheet for SC303156

KCNS1 (NM_002251) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNS1 (NM_002251) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNS1
Synonyms:	Kv9.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>SC303156 representing NM_002251.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTGATGCTGCTGGTCCGGGGAACACACTATGAGAACCTCCGGTCTAAAGTGGTGCTGCCAACACCC
CTAGGAGGGAGGAGCACTGAAACCTTTGTGAGCGAGTTCCCGGGCCCCGACACCGGGATCCGCTGGCGG
CGAAGCGACGAGGCGCTGCGCGTGAACGTGGGTGGCGTGCGGCGGCAGCTGAGCGCGCGCGCCCTGGCG
CGCTTCCCGGGCACGCGGCTGGGCCGCCTGCAGGCCGCGGCGTCGGAGGAGCAGGCGCGGCGCCTGTGC
GACGACTACGACGAGGCGGCGCGCGAATTCTACTTCGACCGGCACCCGGGCTTCTTCCTGAGCCTGCTG
CACTTCTACCGCACTGGCCACCTGCACGTGCTCGACGAGCTGTGCGTCTTCGCCTTTGGCCAGGAGGCC
GACTACTGGGGCCTAGGCGAGAACGCGCTTGCCGCGTGCTGCCGCGCGCGCTACCTGGAGAGGCGGCTG
ACCCAGCCGCACGCCTGGGACGAGGACAGCGACACGCCGAGCAGCGTGGACCCGTGCCCCGACGAGATC
TCCGACGTGCAGCGAGAACTGGCGCGCTATGGCGCGGCGCGCTGTGGCCGCCTGCGCCGCCGCCTCTGG
CTGACCATGGAGAACCCGGGCTACTCGCTGCCGAGCAAGCTCTTCAGCTGCGTCTCCATCAGCGTGGTG
CTCGCCTCCATCGCCGCCATGTGCATCCACAGCCTGCCCGAGTACCAGGCCCGCGAGGCGGCGGCCGCC
GTGGCTGCGGTGGCCGCGGGCCGCAGCCCGGAAGGCGTGCGCGACGACCCGGTGCTGCGACGCCTCGAG
TACTTCTGCATCGCCTGGTTCAGCTTCGAGGTGTCGTCGCGCCTCCTGCTGGCGCCCAGTACGCGCAAC
TTCTTCTGCCACCCGCTCAACCTCATCGACATTGTGTCTGTGCTGCCCTTCTATCTCACGCTGCTGGCT
GGTGTGGCACTGGGCGACCAGGGCGGCAAGGAGTTCGGCCACCTGGGCAAGGTGGTGCAGGTGTTCCGC
CTCATGCGCATCTTCCGCGTACTCAAGTTGGCGCGCCATTCCACCGGGCTGCGCTCGCTGGGAGCCACG
CTCAAGCACAGCTACCGTGAGGTGGGCATCTTGCTGCTGTACCTGGCTGTGGGTGTGTCAGTGTTCTCT
GGTGTGGCCTACACAGCTGAAAAGGAGGAGGACGTGGGCTTTAACACCATCCCAGCCTGCTGGTGGTGG
GGCACAGTGAGCATGACCACCGTGGGCTATGGGGATGTGGTGCCAGTGACGGTGGCTGGCAAGCTGGCA
GCCTCAGGCTGCATCCTAGGGGGCATCCTGGTGGTAGCACTCCCCATCACCATCATCTTCAACAAGTTC
TCCCACTTCTACCGGCGCCAGAAGGCTCTGGAGGCAGCCGTGCGCAACAGCAACCACCAAGAGTTTGAG
GACTTGCTGAGCAGCATTGATGGGGTGTCGGAGGCATCTCTGGAGACATCCCGAGAAACCTCTCAGGAG
GGACAGTCTGCAGATCTAGAGAGCCAGGCCCCCAGTGAGCCTCCACACCCTCAGATGTATTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

ACCN: NM_002251

Insert Size: 1581 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_002251.4
RefSeq Size:	5648 bp
RefSeq ORF:	1581 bp
Locus ID:	3787
UniProt ID:	Q96KK3
Cytogenetics:	20q13.12
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
MW:	58.4 kDa
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. [provided by RefSeq, Jul 2008]