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Product datasheet for SC111648

KCNC4 (NM_004978) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNC4 (NM_004978) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNC4
Synonyms:	C1orf30; HKSHIIIC; KSHIIIC; KV3.4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

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Fully Sequenced ORF:

>OriGene ORF within SC111648 sequence for NM_004978 edited (data generated by NextGen Sequencing)

ATGATCAGCTCGGTGTGTGTCTCCTCCTACCGCGGGCGCAAGTCGGGGAACAAGCCTCCG
TCCAAAACATGTCTGAAGGAGGAGATGGCCAAGGGCGAGGCGTCGGAGAAGATCATCATC
AACGTGGGCGGCACGCGACATGAGACCTACCGCAGCACCCTGCGCACCCTACCGGGAACC
CGCCTCGCCTGGCTGGCCGACCCCGACGGCGGGGGCCGGCCCGAGACCGATGGCGGCGGT
GTGGGTAGCAGCGGCAGCAGCGGCGGCGGGGGCTGCGAGTTCTTCTTCGACAGGCACCCG
GGCGTCTTCGCCTACGTGCTCAACTACTACCGCACCGGCAAGCTGCACTGCCCCGCGGAC
GTGTGCGGGCCGCTCTTCGAAGAGGAGCTCACCTTCTGGGGCATCGACGAGACCGACGTG
GAACCCTGCTGCTGGATGACCTACCGGCAGCACCGCGACGCCGAGGAGGCGCTCGACATC
TTCGAGAGCCCGGACGGAGGCGGCAGCGGCGCGGGGCCCAGCGACGAGGCCGGCGACGAT
GAGCGGGAGCTGGCCCTGCAGCGACTGGGCCCCCACGAGGGAGGCGCGGGCCATGGCGCC
GGGTCTGGGGGCTGCCGCGGCTGGCAGCCCCGCATGTGGGCGCTCTTCGAGGATCCCTAC
TCCTCCCGGGCCGCTAGGGTAGTGGCCTTTGCCTCTCTCTTCTTCATCCTGGTCTCCATC
ACCACTTTCTGCCTGGAGACCCATGAGGCCTTTAATATCGACCGCAACGTGACAGAGATC
CTCCGCGTAGGGAACATCACCAGCGTGCACTTCCGGCGGGAGGTAGAGACAGAGCCCATC
CTGACCTACATCGAGGGCGTATGTGTGCTGTGGTTCACACTGGAGTTCCTGGTGCGCATC
GTGTGCTGCCCCGACACGCTGGACTTCGTCAAGAACCTGCTCAACATCATCGACTTTGTG
GCCATCCTGCCCTTCTACCTGGAGGTGGGGCTGAGCGGCCTGTCATCCAAGGCGGCCCGC
GACGTGCTGGGCTTCCTGCGCGTGGTGCGCTTCGTGCGCATCCTGCGTATCTTCAAGCTC
ACACGCCACTTCGTGGGGCTACGCGTGCTGGGCCACACCCTGAGGGCCAGCACCAATGAG
TTCCTGCTGCTTATCATCTTCCTGGCCCTGGGTGTGCTCATCTTTGCCACCATGATCTAC
TACGCTGAGCGCATTGGGGCCAGGCCCTCCGACCCTCGGGGTAATGACCACACCGACTTC
AAGAACATCCCCATTGGCTTCTGGTGGGCTGTGGTCACCATGACGACACTGGGCTACGGA
GACATGTACCCCAAGACGTGGTCAGGCATGCTGGTAGGGGCACTGTGTGCACTGGCTGGC
GTGCTCACCATCGCCATGCCGGTGCCTGTCATCGTCAACAACTTCGGCATGTACTACTCC
CTGGCCATGGCCAAGCAGAAGCTGCCCAAGAAACGGAAGAAGCACGTGCCACGGCCGGCG
CAGCTGGAGTCACCCATGTACTGCAAGTCTGAGGAGACTTCCCCCCGGGACAGCACCTGC
AGTGATACCAGCCCCCCTGCCCGGGAAGAGGGTATGATCGAGAGGAAACGGGCAGACTCT
AAGCAGAATGGCGATGCCAACGCAGTGCTGTCTGATGAGGAGGGAGCTGGCCTCACCCAA
CCCCTGGCCTCCTCCCCGACCCCCGAGGAGCGCCGGGCCCTGCGACGCTCCACCACTCGA
GACAGAAACAAGAAGGCAGCTGCCTGCTTCCTGCTCAGCACTGGGGACTATGCCTGCGCC
GATGGTAGTGTCCGGAAAGGCACATTCGTCCTCCGTGACCTTCCCCTTCAGCATTCACCT
GAGGCTGCATGCCCTCCAACTGCTGGGACTCTGTTCCTGCCACATTGA

Clone variation with respect to NM_004978.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004978 unedited
AATCTTCACCCGCCCGTTGNCTCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA
AGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCC
GCGAATCGGCACGAGGAGCGTTTGTGTGTCCCGTCGTAGCGGGGGACCGCGTGTGTGCTT
GCTTCTACTTCCCCGGGTCCTCCCTCTCTGCGCCTCCCTCTCTCCGGAGCTTCCTGCCCT
AACCCCAACCACCTGTGTACCGGAGAAATCCAACTCCTCCCGCTCCGCGTCCTAGGGGGA
TAGGCAGGGGCAAGCCCAAGCCGCAGAGGGGGCCGCCACCGCCTCCTGCCTCCTCTTCGT
CTCCTCCCCCTCCCCCGTCTGACGCTGCCTCCTCGGGAAGGGTGTTTGGAGGGCAGCGGC
CGCCCCAAGCCGGAGCCCCGCAGCGCTTCTTATGATCAGCTCGGTGTGTGTCTCCTCCTA
CCGCGGGCGCAAGTCGGGGAACAAGCCTCCGTCCAAAACATGTCTGAAGGAGGAGATGGC
CAAGGGCGAGGCGTCGGAGAAGATCATCATCAACGTGGGCGGCACGCGACATGAGACCTA
CCGCAGCACCCTGCGCACCCTACCGGGAACCCGCCTCGCCTGGCTGGCCGACCCCGACGG
CGGNGGCCGGCCCGAGACCGATGGCGGCGGTGTGGGTAGCAGCGGCAGCAGCGGCGGCGN
GGGCTGCGAGTTCTTCTTCGACAGGCACCCGGGCGTCTTCGCCTACGTGCTCAACTACTA
CCGCACCGGCAAGCTGCACTGCCCCGCGGACGTGTGCGGGCCGCTCTTCGAAGAGAGCTC
ACCTTCTGGGGCATCGACGAGACCGACGTGGAACCCTGCTGCTGGATGACCCTACGGCAG
CACCGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004978 unedited
GAACTCTATGTACGTGGCCGCCTTTANGATCGGTTTTTTTTTTTTTTTTTTCAACAGCA
GGATCAGCAGGATGCTCCAGATGTCTTTATTGGGGCTCGAGCACAGCATGACAGTTGGAG
GCATGCAGACAGGGCACAGGGCCCAGCCTGGGCATGCCCCAGACACACACGAGGGGACAG
CTTTAGAAAAGGACTGACCAACACCAGGGAGGAGCAGGGAGGGAGGGCCAAGGGAGGGGC
AGAGGCCAAGGCTGAAGGGGTCACCTGGCCTCTGCTATTGCACGCATCCTCTGGCCACTG
ACCAGGAAGTACAGTATTGCAACTGGTCTCCTCTTGCCCAAGGCTTCCCTTCTCGGACCC
CCTGGGCCAGATGGGCAGACAGATCCTTTCCCTGCCTGTCTGCCCAGCAGCATCTTTGAC
AACAAACAGACAAAGGAGAGAGAACAAAATCAAATCTAAAAAAGACAAAATGCCCCCCTA
AGTCAAGGACATAGATGGGGTGGAGGAAGTATTGGAGGAGGCTGCAGAGGAGCCCCTGGA
AGTCCCCCCACAACGAGGATGTGGGGTGGGAGGTAAAACCCCAATCTGGGGTGGGGTGCG
GCTAGTGAAGCAGTGACCCTAGGGGGCAGTCTGGCCTTCAATAGACTTCACCAGGTTACT
TGCTGACAGGGGAAACATCCCCAAGAAGGAGCCTGGGACTACCCAGCTGGACTGGCAATT
CCAGATGCACTTTTCTGGGGACATTNCACCCCACGGTCGGCGGAAACAACCGAAATCGTG
GAAGGGGACGGGNAACTCTGGGTGGGGCAAGGGCCTATGGAAACCAGCCTAACAAGAAGA
CAAACCCCCATGGCCGGTGCCCTCCCACAAGATTTAATTTGGGTGAATC

Restriction Sites: NotI-NotI

ACCN: NM_004978

Insert Size: 4000 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_004978.2, NP_004969.2
RefSeq Size:	2879 bp
RefSeq ORF:	1908 bp
Locus ID:	3749
UniProt ID:	Q03721
Cytogenetics:	1p13.3
Domains:	BTB, K_tetra, ion_trans
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	The Shaker gene family of Drosophila encodes components of voltage-gated potassium channels and is comprised of four subfamilies. Based on sequence similarity, this gene is similar to the Shaw subfamily. The protein encoded by this gene belongs to the delayed rectifier class of channel proteins and is an integral membrane protein that mediates the voltage-dependent potassium ion permeability of excitable membranes. It generates atypical voltage-dependent transient current that may be important for neuronal excitability. Multiple transcript variants have been found for this gene. [provided by RefSeq, Jul 2010] Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a).