

Product datasheet for **SC337827**

KCNT2 (NM_001287820) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNT2 (NM_001287820) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNT2
Synonyms:	EIEE57; KCa4.2; SLICK; SLO2.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001287820, the custom clone sequence may differ by one or more nucleotides

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ATGGTTGATTTGGAGAGCGAAGTGCCCCCTCGCCTCCCAGGTACAGGTTTCGAGATTTGCTGCTAGGGG
ACCAAGGATGGCAAAACGACGAGGGTACAAGTTGAATTCATATGAATGAAAAACATTTAAAGAAAG
ACTAAAATTATTTTTTCAAAAAACGAGAGATCAAGTCTAAGGATACGCCTGTTCAATTTTTCTCTCAA
TTACTAAGCTGCTTATTATACATAATCCGAGTACTACTAGAAAACCCCTTACAAGGAAATGAATGGTCTC
ATATCTTTTGGGTGAACAGAAGTCTACCTTTGTGGGGCTTACAGGTTTCAGTGGCATTGATAAGTCTGTT
TGAACAATATTACTTGGTTATCTTAGTTATAAGGGAAACATCTGGGAACAGATTTTACGAATACCCCTC
ATCTTGGAAATAATTAATGCAGTCCCTTCATTATCTCAATATTCTGGCCTTCCTTAAGGAATCTATTTG
TCCAGCTCTTCTGAACTGTTGGCTTGCCAAACATGCCTTGAAAATATGATTAATGATCTACACAGAGC
CATTACAGCTACACAGTCTGCAATGTTAATCAAGTTTTGATTTAATATCTACATTACTATGCCTTATC
TTCACCTGCATTTGTGGGATCCAACATCTGGAACGAATAGGAAAGAAGCTGAATCTTTGACTCCCTTT
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TGGATGGAGAGACAAAAGTCAGGAGGAAACTATAGTCGACATAGAGCTCAAACGAAAAGCATGTCGTCC
TGTGTGTCAGCTCACTGAAGATTGATTTACTTATGGATTTTTAAATGAATTCATGCTCATCTAGGCT
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CCAATGTGGTCCCAACGAGTTATCTACCTTCAAGGTTCAAGCCTTAAAGATCAAGACCTATTGAGAGCAA
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CCAAACAATTTGAGAGCATGGGCTGTGAAAGATTTGCTCCTTAAATGTCCTTTGTATGTCCAGATATTA
AAGCCTGAAAATAAATTTACATCAAATTTGCTGATCATGTTGTTGTGAAGAAGAGTTTAAATACGCCA
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GCAGTTTGGCGTCTGCTTGATTGGTGTTAGGAGGGAGGATAATAAAAAACATTTTGTGAATCCAGGTCTC
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ACATAGCATAATTGCCAGCATGGTACTGTGGCTATAGACTTGCAAGATAACAAGTGTAGATCAGCAAGT
GGCCCTACCTGTCTCTTCTACAGAGGGAAGCAAAGAAATAAGAAGACCTAGCATTGCTCCTGTTTTAG
AGGTTGCAGATACATCATCGATTCAAACATGTGATCTTCTAAGTGACCAATCAGAAGATGAAACTACACC
AGATGAAGAAATGTCTTCAAACCTTAGAGTATGCTAAAGGTTACCCACCTTATTCTCCATATATAGGAAGT
TACCCACTTTTTGTCATCTCTTATGAAAAAGTACCATTTTGTGCTTAAGATTAGACAAGAGTTGCC
AACATAACTACTATGAGGATGCAAAAGCCTATGGATTCAAAAATAAACTAATTATAGTTGCAGCTGAAAC
AGCTGGAATGGATTATATAACTTTATTGTTTCTCTCAGGGCATAATTATAGACCAAGAAAGAACTTAAT
CCCATAGTACTGCTATTGGATAACCCCTAGATGACTTACTCAGGTGTGGAGTACTTTTGTGCTAATA
TGGTGGTTGTGGATAAAGAGAGCACCATGAGTGCCGAGGAAGACTACATGGCAGATGCCAAAACCTTGT
GAACGTGCAGACACTCTCAGGTTGTTTTCCAGTCTCAGTATTATCACAGAGCTAACTCACCCCGCCAAC
ATGAGATTCATGCAATTCAGAGCCAAAGACTGTTACTCTTGTCTTTCAAACCTGAAAAGAAAGAAC
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TATGTTGGACACTCTGCTGTATCAGTCATTTGTGAAGGATTATATGATTTCTATCACGAGACTTCTGTTG
GGACTGGACACTACACCAGGATCTGGGTTTCTTTGTTCTATGAAAATCACTGCAGATGACTTATGGATCA
GAACTTATGCCAGACTTTATCAGAAGTTGTGTTCTTCTACTGGAGATGTTCCATTGGAATCTACAGGAC
TGAGTCTCAGAACTTACTACATCTGAGTCTCGAAAAATAGCATCACAATCTCAAATATCTATCAGTGTA
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CCAGTGATCAGTCGACCATCCCTTGTGCGGAGAAAAAGCATGCAGTGGGCCGGAAGACTGAGCAGAAA
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ATGAAATGAATGATCATCAAAGTACCCTCTCTACATCCTGATTAACCCATCTCCAGATACCAGAATAGA
GCTGAATGATGTTGTATACTTAATTCGACCAGATCCACTGGCCTACCTTCAAACAGTGAGCCAGTCTGA
AGAAACAGCATCTGCAATGTCAGTGGTCAAGATTCTCGGGAGGAAACTCAACTTGA
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001287820
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:	<ol style="list-style-type: none"> 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:	<u>NM_001287820.1</u> , <u>NP_001274749.1</u>
RefSeq Size:	5774 bp
RefSeq ORF:	3207 bp
Locus ID:	343450
UniProt ID:	<u>Q6UVM3</u>
Cytogenetics:	1q31.3
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	<p>Outward rectifying potassium channel. Produces rapidly activating outward rectifier K(+) currents. Activated by high intracellular sodium and chloride levels (PubMed:14684870, PubMed:16687497, PubMed:29069600). Channel activity is inhibited by ATP and by inhalation anesthetics, such as isoflurane (PubMed:16687497) (By similarity). Inhibited upon stimulation of G-protein coupled receptors, such as CHRM1 and GRM1 (PubMed:16687497).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) lacks two in-frame exons and contains one alternate in-frame exon in the central coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>