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Product datasheet for SC337872

KCNT2 (NM_001287819) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNT2 (NM_001287819) 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)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001287819, the custom clone sequence may differ by one or more nucleotides

ATGGTTGATTTGGAGAGCGAAGTGCCCCCTCTGCCTCCCAGGTACAGGTTTCGAGATTTGCTGCTAGGGG
ACCAAGGATGGCAAAACGACGACAGGGTACAAGTTGAATTCTATATGAATGAAAATACATTTAAAGAAAG
ACTAAAATTATTTTTCATAAAAAACCAGAGATCAAGTCTAAGGATACGCCTGTTCAATTTTTCTCTCAAA
TTACTAAGCTGCTTATTATACATAATCCGAGTACTACTAGAAAACCCTTCACAAGGAAATGAATGGTCTC
ATATCTTTTGGGTGAACAGAAGTCTACCTTTGTGGGGCTTACAGGTTTCAGTGGCATTGATAAGTCTGTT
TGAAACAATATTACTTGGTTATCTTAGTTATAAGGGAAACATCTGGGAACAGATTTTACGAATACCCTTC
ATCTTGGAAATAATTAATGCAGTTCCCTTCATTATCTCAATATTCTGGCCTTCCTTAAGGAATCTATTTG
TCCCAGTCTTTCTGAACTGTTGGCTTGCCAAACATGCCTTGGAAAATATGATTAATGATCTACACAGAGC
CATTCAGCGTACACAGTCTGCAATGTTTAATCAAGTTTTGATTTTAATATCTACATTACTATGCCTTATC
TTCACCTGCATTTGTGGGATCCAACATCTGGAACGAATAGGAAAGAAGCTGAATCTCTTTGACTCCCTTT
ATTTCTGCATTGTGACGTTTTCTACTGTGGGCTTCGGGGATGTCACTCCTGAAACATGGTCCTCCAAGCT
TTTTGTAGTTGCTATGATTTGTGTTGCTCTTGTGGTTCTACCCATACAGTTTGAACAGCTGGCTTATTTG
TGGATGGAGAGACAAAAGTCAGGAGGAAACTATAGTCGACATAGAGCTCAAACTGAAAAGCATGTCGTCC
TGTGTGTCAGCTCACTGAAGATTGATTTACTTATGGATTTTTTAAATGAATTCTATGCTCATCCTAGGCT
CCAGGATTATTATGTGGTGATTTTGTGTCCTACTGAAATGGATGTACAGGTTCGAAGGGTACTGCAGATT
CCAATGTGGTCCCAACGAGTTATCTACCTTCAAGGTTCAGCCCTTAAAGATCAAGACCTATTGAGAGCAA
AGATGGATGACGCTGAGGCCTGTTTTATTCTCAGTAGCCGTTGTGAAGTGGATAGGACATCATCTGATCA
CCAAACAATTTTGAGAGCATGGGCTGTGAAAGATTTTGCTCCAAATTGTCCTTTGTATGTCCAGATATTA
AAGCCTGAAAATAAATTTCACATCAAATTTGCTGATCATGTTGTTTGTGAAGAAGAGTTTAAATACGCCA
TGTTAGCTTTAAACTGTATATGCCCAGCAACATCTACACTTATTACACTACTGGTTCATACCTCTAGAGG
GCAAGAAGGCCAGCAATCGCCAGAACAATGGCAGAAGATGTACGGTAGATGCTCCGGGAATGAAGTCTAC
CACATTGTTTTGGAAGAAAGTACATTTTTTGCTGAATATGAAGGAAAGAGTTTTACATATGCCTCTTTCC
ATGCACACAAAAAGTTTGGCGTCTGCTTGATTGGTGTTAGGAGGGAGGATAATAAAAACATTTTGCTGAA

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TCCAGGTCCTCGATACATTATGAATTCTACAGACATATGCTTTTATATTAATATTACCAAAGAAGAGAAT
TCAGCATTTAAAAACCAAGACCAGCAGAGAAAAAGCAATGTGTCCAGGTCGTTTTATCATGGACCTTCCA
GATTACCTGTACATAGCATAATTGCCAGCATGGGTACTGTGGCTATAGACTTGCAAGATACAAGCTGTAG
ATCAGCAAGTGGCCCTACCCTGTCTCTTCCTACAGAGGGAAGCAAAGAAATAAGAAGACCTAGCATTGCT
CCTGTTTTAGAGGTTGCAGATACATCATCGATTCAAACATGTGATCTTCTAAGTGACCAATCAGAAGATG
AAACTACACCAGATGAAGAAATGTCTTCAAACTTAGAGTATGCTAAAGGTTACCCACCTTATTCTCCATA
TATAGGAAGTTCACCCACTTTTTGTCATCTCCTTCATGAAAAAGTACCATTTTGCTGCTTAAGATTAGAC
AAGAGTTGCCAACATAACTACTATGAGGATGCAAAAGCCTATGGATTCAAAAATAAACTAATTATAGTTG
CAGCTGAAACAGCTGGAAATGGATTATATAACTTTATTGTTCCTCTCAGGGCATATTATAGACCAAAGAA
AGAACTTAATCCCATAGTACTGCTATTGGATAACCCCCTAGATGACTTACTCAGGTGTGGAGTGACTTTT
GCTGCTAATATGGTGGTTGTGGATAAAGAGAGCACCATGAGTGCCGAGGAAGACTACATGGCAGATGCCA
AAACCATTGTGAACGTGCAGACACTCTTCAGGTTGTTTTCCAGTCTCAGTATTATCACAGAGCTAACTCA
CCCCGCCAACATGAGATTCATGCAATTCAGAGCCAAAGACTGTTACTCTCTTGCTCTTTCAAAACTGGAA
AAGAAAGAACGGGAGAGAGGCTCTAACTTGGCCTTTATGTTTCGACTGCCTTTTGCTGCTGGGAGGGTGT
TTAGCATCAGTATGTTGGACACTCTGCTGTATCAGTCATTTGTGAAGGATTATATGATTTCTATCACGAG
ACTTCTGTTGGGACTGGACACTACACCAGGATCTGGGTTTCTTTGTTCTATGAAAATCACTGCAGATGAC
TTATGGATCAGAACTTATGCCAGACTTTATCAGAAGTTGTGTTCTTCTACTGGAGATGTTCCCATTGGAA
TCTACAGGACTGAGTCTCAGAAACTTACTACATCTGAGTCTCAAATATCTATCAGTGTAGAAGAGTGGGA
AGACACCAAAGACTCCAAAGAACAAGGGCACCACCGCAGCAACCACCGCAACTCAACATCCAGTGATCAG
TCGGACCATCCCTTGCTGCGGAGAAAAAGCATGCAGTGGGCCCGAAGACTGAGCAGAAAAGGCCCAAAAC
ACTCTGGTAAAACAGCTGAAAAAATAACCCAGCAGCGACTGAACCTCTACAGGAGGTCAGAAAGACAAGA
GCTTGCTGAACTTGTGAAAAATAGAATGAAACACTTGGGTCTTTCTACAGTGGGATATGATGAAATGAAT
GATCATCAAAGTACCCTCTCCTACATCCTGATTAACCCATCTCCAGATACCAGAATAGAGCTGAATGATG
TTGTATACTTAATTCGACCAGATCCACTGGCCTACCTTCCAAACAGTGAGCCCAGTCGAAGAAACAGCAT
CTGCAATGTCACTGGTCAAGATTCTCGGGAGGAAACTCAACTTTGA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001287819
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_001287819.1, NP_001274748.1
RefSeq Size:	5903 bp
RefSeq ORF:	3336 bp
Locus ID:	343450

UniProt ID:	Q6UVM3
Cytogenetics:	1q31.3
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	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). [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) lacks an in-frame exon in the central coding region, compared to variant 1. The encoded isoform (2) 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.