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Product datasheet for MC223985

Kcnt1 (NM_001145403) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnt1 (NM_001145403) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnt1
Synonyms:	C030030G16Rik; s; Sl; Slack; slo2; Slo2.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223985 representing NM_001145403 Red=Cloning site Blue=ORF TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAACGACCTGGACACGGAGGTGCTGCCCTTGCCGCCAAGGTACCGATTCCGTGACCTGCTTTTAGGAG ACCAGCCATTCCCGAACGACGATAGGCTTCATGTGGAAGATTTCAGCCTGGACTCTTCCCTTTCTCAGGT CCAGGTGGAGTTCTATGTCAATGAGAACACCTTCAAAGAGCGGCTCAAGCTGTTCTTCATCAAAAACCAA AGATCCAGCCTGAGGATCCGGCTGTTCAACTTCTCCCTCAAGCTCCTCACCTGCCTGCTGTATATCGTCC GTGTCCTGCTTGACAACCCAGACCAGGGCATCGGATGCTGGGGCTGCACGAAGTATAACTACACTTTCAA TGGCTCATCCTCTGAGTTCCACTGGGCTCCCATCCTGTGGGTGGAGAGGAAAATGGCTCTGTGGGTGATC CAGGTCATTGTGGCCACAATAAGCTTCTTAGAGACCATGCTCATCATTTACCTCAGCTACAAAGGCAACA TCTGGGAGCAGATATTCCATGTGTCTTTCGTCTTGGAGATGATCAACACACTGCCCTTCATCATCACGGT CTTCTGGCCACCTCTGCGGAACCTGTTCATCCCCGTGTTTCTCAACTGCTGGCTGGCCAAGCATGCGCTG GAGAACATGATTAATGACTTCCACCGTGCCATCCTACGCACACAGTCAGCCATGTTCAACCAGGTGCTCA TCCTGTTCTGCACCCTGCTGTGCCTGGTCTTCACAGGGACCTGTGGGATCCAGCACCTGGAGCGAGCAGG TGGCAACTTGAACCTGCTGACCTCCTTCTACTTCTGCATCGTGACTTTCTCAACTGTGGGCTTCGGTGAT GTGACGCCCAAGATCTGGCCATCCCAGCTCCTGGTGGTCATCCTGATCTGTGTCACCCTTGTGGTGCTCC CACTGCAATTTGAAGAGCTTGTCTACCTCTGGATGGAGCGTCAGAAGTCAGGGGGCAACTATAGCCGCCA CCGAGCACGGACGGAGAAGCACGTAGTCCTGTGTGTGAGCTCCCTCAAGATTGATCTCCTCATGGACTTC CTGAATGAGTTCTATGCCCATCCCCGGCTCCAGGACTACTACGTGGTCATCCTGTGTCCCTCTGAAATGG ACGTCCAGGTGCGCAGGGTGCTGCAGATTCCCCTGTGGTCCCAGCGGGTCATCTACCTCCAGGGCTCTGC CCTCAAGGACCAGGATCTCATGCGAGCCAAGATGGACAACGGAGAGGCCTGCTTTATCCTCAGCAGCAGG AATGAGGTGGACCGCACAGCTGCGGATCACCAGACCATCCTTCGAGCCTGGGCTGTGAAGGACTTTGCCC CCAACTGTCCCCTCTATGTCCAGATCCTCAAGCCCGAAAACAAGTTTCACGTCAAATTTGCTGACCACGT GGTATGCGAGGAAGAGTGCAAGTACGCCATGCTGGCCCTGAACTGCATCTGCCCGGCCACCTCCACCCTC

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ATCACCCTGCTGGTGCACACGTCCCGTGGCCAGGAAGGACAGGAGTCTCCCGAGCAGTGGCAGCGCACGT
ACGGGAGGTGCTCGGGCAACGAGGTGTACCACATTCGCATGGGTGACAGTAAATTCTTCCGGGAGTATGA
GGGCAAGAGCTTCACCTACGCAGCCTTCCACGCGCACAAGAAATATGGGGTGTGCCTCATCGGGCTGAAG
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TCTATATCAATATTACCAAGGAGGAGAACTCAGCTTTCATCTTCAAACAGGAGGAGAAGCAGAAGAGACG
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CGGGAGAACGGCTCCAACCTGGCCTTCATGTTCCGCCTGCCATTTGCTGCTGGTCGAGTATTTAGTATCA
GCATGTTGGATACACTGCTCTACCAGTCCTTCGTGAAGGACTACATGATCACCATCACCAGGCTGCTCTT
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CGCACTTACGGCCGCCTCTTCCAGAAACTCTGCTCCTCCAGCGCCGAGATCCCCATCGGCATCTACAGGA
CCGAGTGCCATGTCTTCTCGGAGCCCCATGACGTCAGAGCCCAGTCTCAGATCTCGGTGAACATGGAGGA
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GGCCGTCACGGGGGCAGTGCTGACCCAGTGGAGCACCCACTACTACGTCGCAAGAGCCTGCAGTGGGCCC
GCAAGCTGAGTCGCAAGAGCACCAAGCAGGCAGGGAAGGCACCTGTGGCCACAGACTGGATCACCCAGCA
GCGGCTCAGCCTGTACCGACGCTCAGAGCGCCAGGAGCTCTCAGAGCTGGTCAAGAACCGAATGAAGCAC
CTGGGACTGCCCACCACTGGCTATGAGGACGTAGCAAATTTAACAGCCAGTGATGTGATGAATCGGGTAA
ACCTGGGATATTTGCAAGATGAGATGAACGATCATCACCAGAACACCCTTTCCTATGTACTCATCAACCC
CCCGCCAGACACAAGACTGGAACCCAACGACATTGTGTACCTCATCCGTTCCGACCCCCTGGCCCATGTG
GCCAGCAGCTCCCAGAGTCGGAAAAGCAGCTGCAGCAACAAGCTCTCATCCTGTAATCCTGAGACCAGGG
ATGAGACCCAGCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1638_e10.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001145403

Insert Size: 3657 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_001145403.1, NP_001138875.1
RefSeq Size:	3771 bp
RefSeq ORF:	3657 bp
Locus ID:	227632
Cytogenetics:	2 A3
Gene Summary:	This gene encodes a member of the Slo potassium channel family that has shown to be activated by both sodium and chloride ions. This channel represents the largest potassium channel subunit yet identified. This channel may be important in development and pain signaling. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2014] Transcript Variant: This variant (2) contains an alternate 5' terminal exon, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.