

Product datasheet for MC229486

Kcnt1 (NM_001302351) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnt1 (NM_001302351) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcnt1
Synonyms: C030030G16Rik; s; Sl; Slack; slo2; Slo2.2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC229486 representing NM_001302351
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGCGGGCCAAGCTGCCGCGCTCGCCGTCGAGGGCAAGGCGGGTCCGGGGACACCCAGCCGGCG
 CTGCAGCCCTGAGGAGCCACACGGGCTCAGCCGCTACTGCCGCCCCGGCGGGGGCTCCGTGGGCAG
 CGACGTGGGCCAGAGGGTCCAGGTGGAGTTCTATGTCAATGAGAACACCTTCAAAGAGCGGCTCAAGCTG
 TTCTTCATCAAAAACAAAGATCCAGCCTGAGGATCCGGCTGTCAACTTCTCCCTCAAGCTCCTCACT
 GCCTGCTGTATATCGTCCGTGTCCTGCTTGACAACCCAGACCAGGGCATCGGATGCTGGGCTGCACGAA
 GTAACTACACTTTCAATGGCTCATCCTCTGAGTTCCTGAGTCCCTCCATCCTGTGGGTGGAGAGGAAA
 ATGGCTCTGTGGGTGATCCAGGTCATTGTGGCCACAATAAGCTTCTTAGAGACCATGCTCATATTTACC
 TCAGCTACAAAGGCAACATCTGGGAGCAGATATCCATGTGTCTTTCGTCTTGGAGATGATCAACACACT
 GCCCTTCATCATCAGGTCTTCTGGCCACCTCTGCGGAACCTGTTTCATCCCCGTGTTTCTCAACTGCTGG
 CTGGCCAAGCATGCGCTGGAGAACATGATTAATGACTTCCACCGTGCCATCCTACGCACACAGTCAGCCA
 TGTTCAACCAGGTGCTCATCCTGTCTGCACCCGCTGCTGTCCTTTCACAGGGACCTGTGGGATCCA
 GCACCTGGAGCGAGCAGGTGGCAACTTGAACCTGCTGACCTCCTTCTACTTCTGCATCGTGACTTTCTCA
 ACTGTGGGCTTCCGTGATGTGACGCCAAAGATCTGGCCATCCCAGCTCCTGGTGGTCATCCTGATCTGTG
 TCACCCTGTGGTGTCCACTGCAATTTGAAGAGCTTGTCTACCTCTGGATGGAGCGTCAGAAGTCAGG
 GGGCAACTATAGCCGCCACCGAGCAGGACGGAGAAGCACGTAGTCTGTGTGTGAGCTCCCTCAAGATT
 GATCTCCTCATGGACTTCTGAATGAGTCTATGCCCATCCCCGGCTCCAGGACTACTACGTGGTCATCC
 TGTGTCCCTCTGAAATGGACGTCCAGGTGCGCAGGGTGTGCAGATTCCCCTGTGGTCCCAGCGGGTCAT
 CTACCTCCAGGGCTCTGCCCTCAAGGACCAGGATCTCATGCGAGCCAAGATGGACAACGGAGAGGCCTGC
 TTTATCCTCAGCAGCAGGAATGAGGTGGACCGCACAGCTGCGGATCACCAGACCATCCTTCGAGCCTGGG
 CTGTGAAGGACTTTGCCCAACTGTCCCTCTATGTCCAGATCCTCAAGCCGAAAACAAGTTTACAGT
 CAAATTTGCTGACCACGTGGTATGCGAGGAAGAGTGCAAGTACGCCATGCTGGCCCTGAAGTGCATCTGC
 CCGGCCACCTCCACCCTCATACCCTGCTGGTGCACACGTCCCCTGGCCAGGAAGGACAGGAGTCTCCCG



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AGCAGTGGCAGCGCACGTACGGGAGGTGCTCGGGCAACGAGGTGTACCACATTCGCATGGGTGACAGTAA
 ATTCTTCCGGGATATGAGGGCAAGAGCTTCACCTACGCAGCCTTCCACGCGCACAAAGAAATATGGGGTG
 TGCCTCATCGGGCTGAAGCGTGAGGAGAACAAGAGTATCTGTGAACCCAGGACCACGGCACATCCTGG
 CTGCTCCGACACCTGCTTCTATATCAATATTACCAAGGAGGAGAAGTACAGTTCATCTTCAAACAGGA
 GGAGAAGCAGAAGAGACGGGGCCTTGCAGGGCAGGCATATATGAAGGGCCCTCCCGGCTCCCAGTGCAT
 AGCATCATCGCTCTATGGGACAGTGGCATGGACCTGCAGAACACAGATTGCCGGCCCTCCCAGGGTG
 GCAGTGGCGGGGACGGCACAAAGCTGACTGTCCACCGAGAACGGCTCTGGTAGTCGACGCCACAGCAT
 CGCACCCGTTCTGGAGTTGGCAGACAGCTCAGCCCTGTTGCCCTGCGACCTGCTGAGTGACCAGTCAGAG
 GATGAGGTGACACCCTCGGACGACGAGGGGCTCTCTGTGGTTGAGTACGTGAAGGGCTATCCCCCAACT
 CACCCTACATTGGCAGCTCCCCGACTTTATGCCACCTCCTGCCTGTGAAAGCCCCCTTCTGCTGCCTGCG
 GTTGGACAAGGGCTGAAACACAACAGCTACGAGGATGCCAAGGCCTATGGGTTCAAGAACAAGCTGATT
 ATTGTCTCTGCTGAGACGGCAGGCAACGGGCTCTACAACCTCATCGTGCCTCTGCGCGCCTACTACCGGT
 CCCGCCGGGAGCTCAACCCTATCGTGTGCTGCTTGACAACAAGCCTGACCACCCTTCTGGAGGCCAT
 CTGTTGCTTCCCATGGTCTACTACATGGAGGGATCCGTGGACAACCTGGACAGCTTACTGCAGTGTGGC
 ATCATCTATGCTGACAACCTGGTGGTGGTGACAAGGAGAGCACTATGAGCGCTGAAGAGGACTACATGG
 CAGATGCCAAGACCATCGTCAATGTGCAAACCATGTTCCGGCTTTTCCCCAGTCTCAGCATCACCACGGA
 GCTCACACACCCTTCAAACATGCGGTTTCATGCAGTTCCTGCAAGGACAGCTACTCTCTGGCTCTTTCC
 AAATTGAAAAGCAAGAACGGGAGAACGGCTCCAACTGGCCTTCATGTTCCGCCTGCCATTTGCTGCTG
 GTCGAGTATTTAGTATCAGCATGTTGGATACACTGCTCTACCAGTCCCTCGTGAAGGACTACATGATCAC
 CATCACCAGGCTGCTCTTGGGCCCTTGATACTACACCAGGCTCCGGCTACCTCTGTGCAATGAAGTAACC
 GAGGACGACCTGTGGATCCGCACCTACGGCCGCTTCCAGAACTCTGCTCCTCCAGCGCCGAGATCC
 CCATCGGCATCTACAGGACCGAGTGCCATGTCTTCTCGGAGCCCCATGACGTGAGGCCAGTCTCAGAT
 CTCGGTGAACATGGAGGACTGCGAGGATACTCGGGAGGCCAAGGGACCTGGGGCACACGAGCTGCATCT
 GGCAGTGGCAGCACCCATGGCCGTCACGGGGCAGTGCTGACCCAGTGGAGCACCCACTACTACGTGCA
 AGAGCCTGCAGTGGGCCGCAAGCTGAGTCGCAAGAGCACCAAGCAGGCAGGGAAGGCACCTGTGGCCAC
 AGACTGGATCACCCAGCAGCGGCTCAGCCTGTACCGACGCTCAGAGCGCCAGGAGCTCTCAGAGCTGGTC
 AAGAACCGAATGAAGCACCTGGGACTGCCACCCTGGCTATGAGGACGTAGCAAATTTAACAGCCAGTG
 ATGTGATGAATCGGGTAAACCTGGGATATTTGCAAGATGAGATGAACGATCATCACCAGAACACCCTTTC
 CTATGTACTCATCAACCCCGCCAGACACAAGACTGGAACCAACGACATTGTGTACCTCATCCGTTCC
 GACCCCTGGCCATGTGGCCAGCAGCTCCAGAGTGGAAAAGCAGCTGCAGCAACAAGCTCTCATCCT
 GTAATCCTGAGACCAGGGATGAGACCCAGCTTGA

ACGGGTACGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001302351
- Insert Size:** 3675 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:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001302351.1](#), [NP_001289280.1](#)

RefSeq Size: 5945 bp

RefSeq ORF: 3675 bp

Locus ID: 227632

UniProt ID: [Q6ZPR4](#)

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 (3) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1.