

Product datasheet for **MC224040**

Kcnt1 (NM_175462) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnt1 (NM_175462) 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: >MC224040 representing NM_175462
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGCGGGCCAAGCTGCCGCGCTCGCCGTCGAGGGCAAGGCGGGTCCGGGGACACCCAGCCGGCG
 CTGCAGCCCTGAGGAGCCACACGGGCTCAGCCGCTACTGCCGCCCGCGGGGGCTCCGTGGCGAG
 CGACGTGGGCCAGAGGCTTCATGTGGAAGATTTACGCCTGGACTCTCCCTTTCTCAGGTCCAGGTGGAG
 TTCTATGTCAATGAGAACACCTTCAAAGAGCGGCTCAAGCTGTTCTTCATCAAAAACAAAGATCCAGCC
 TGAGGATCCGGCTGTTCAACTTCTCCCTCAAGCTCCTCACCTGCCTGCTGTATATCGTCCGTGTCCTGCT
 TGACAACCCAGACCAGGGCATCGGATGCTGGGGTGCACGAAGTATAACTACACTTTCAATGGCTCATCC
 TCTGAGTTCCTGAGGCTCCCATCCTGTGGGTGGAGAGGAAAAATGGCTCTGTGGGTGATCCAGGTCAATTG
 TGGCCACAATAAGCTTCTTAGAGACCATGCTCATCATTTACCTCAGCTACAAAGGCAACATCTGGGAGCA
 GATATTCATGTGCTTTTCGCTTGGAGATGATCAACACACTGCCCTTCATCATCACGGTCTTCTGGCCA
 CCTCTGCGGAACCTGTTTCATCCCGTGTTTCTCAACTGCTGGCTGGCCAAGCATGCGCTGGAGAACATGA
 TTAATGACTTCCACCGTGCCATCCTACGCACACAGTCAGCCATGTTCAACCAGGTGCTCATCTGTTCTG
 CACCCTGCTGTGCTGGTCTTACAGGGACCTGTGGGATCCAGCACCTGGAGCGAGCAGGTGGCAACTTG
 AACCTGCTGACCTCCTTCTACTTCTGCATCGTGACTTTCTCAACTGTGGGCTTCGGTGATGTGACGCCCA
 AGATCTGGCCATCCCAGCTCCTGGTGGTATCCTGATCTGTGTCACCCCTGTGGTCTCCCACTGCAATT
 TGAAGAGCTTGTACTCTGGATGGAGCGTCAGAAGTCAGGGGGCAACTATAGCCGCCACCGAGCACGG
 ACGGAGAAGCACGTAGTCTGTGTGAGCTCCCTCAAGATTGATCTCCTCATGGACTTCTGAATGAGT
 TCTATGCCATCCCCGGCTCCAGGACTACTACGTGGTATCCTGTGTCCTCTGAAATGGACGTCCAGGT
 GCGCAGGGTGTGCAGATTCCCCTGTGGTCCCAGCGGGTATCTACCTCCAGGGCTCTGCCCTCAAGGAC
 CAGGATCTCATGCGAGCCAAGATGGACAACGGAGAGGCCTGCTTTATCCTCAGCAGCAGGAATGAGGTGG
 ACCGCACAGCTGCGGATACCAGACCATCTTCGAGCCTGGGCTGTGAAGGACTTTGCCCCAACTGTCC
 CCTCTATGTCCAGATCCTCAAGCCCAGAAACAAGTTTACGTCAAATTTGCTGACCACGTGGTATGCGAG
 GAAGAGTGCAAGTACGCCATGCTGGCCCTGAAGTGCATCTGCCGGCCACCTCCACCCTCATCACCTGC



TGGTGCACACGTCCCCTGGCCAGGAAGGACAGGAGTCTCCCAGCAGTGGCAGCGCACGTACGGGAGGTG
 CTCGGGCAACGAGGTGTACCACATTCGCATGGGTGACAGTAAATCTTCCGGGAGTATGAGGGCAAGAGC
 TTCACCTACGCAGCCTTCCACGCGCACAAGAAATATGGGGTGTGCCTCATCGGGCTGAAGCGTGAGGAGA
 ACAAGAGTATCCTGCTGAACCCAGGACCACGGCACATCCTGGCTGCCTCCGACACCTGCTTCTATATCAA
 TATTACCAAGGAGGAGAAGTCACTTTCATCTTCAAACAGGAGGAGAAGCAGAAGAGACGGGGCCTTGCA
 GGGCAGGCACTATATGAAGGGCCCTCCCAGTCCCAGTGCATAGCATCATCGCTCTATGGGGACAGTGG
 CCATGGACCTGCAGAACACAGATTGCCGGCCCTCCCAGGGTGGCAGTGGCGGGGACGGCACAAAGCTGAC
 TCTGCCACCGAGAACGGCTCTGGTAGTCGACGCCCCAGCATCGCACCCGTTCTGGAGTTGGCAGACAGC
 TCAGCCCTGTTGCCCTGCGACCTGCTGAGTGACCAGTCAGAGGATGAGGTGACACCCTCGGACGACGAGG
 GGCTCTCTGTGGTTGAGTACGTGAAGGGCTATCCCCCAACTCACCTACATTGGCAGCTCCCCGACTTT
 ATGCCACCTCCTGCCTGTGAAAGCCCCCTTCTGCTGCCTGCGGTTGGACAAGGGGTGAAACACAACAGC
 TACGAGGATGCCAAGGCCTATGGGTTCAAGAACAAGCTGATTATTGTCTCTGCTGAGACGGCAGGCAACG
 GGCTCTACAACTCATCGTGCCTCTGCGCGCTACTACCGGTCCCAGGGAGCTCAACCCTATCGTGT
 GCTGCTTGACAACAAGCCTGACCACCCTTCTGGAGGCCATCTGTTGCTTCCCATGGTCTACTACATG
 GAGGGATCCGTGGACAACCTGGACAGCTTACTGCAGTGTGCATCATCTATGCTGACAACCTGGTGGTGG
 TGGACAAGGAGAGCACTATGAGCGCTGAAGAGGACTACATGGCAGATGCCAAGACCATCGTCAATGTGCA
 AACCATGTTCCGGCTTTTCCCCAGTCTCAGCATACCACGGAGCTCACACACCCTTCCAACATGCGGTTT
 ATGCAAGTCCGTGCCAAGGACAGCTACTCTGCTGCTTTTCCAACTTGAAGCAAGAACGGGAGAACG
 GCTCCAACCTGGCCTTATGTTCCGCTGCCATTTGCTGCTGGTTCGAGTATTTAGTATCAGCATGTTGGA
 TACTGCTCTACCAGTCTTGTGAAGGACTACATGATCACCATCACCAGGCTGCTCTTGGGCCTTGAT
 ACTACACCAGGCTCCGGCTACCTCTGTGCAATGAAGGTAACCGAGGACGACCTGTGGATCCGCACCTACG
 GCCGCCTTCCAGAACTCTGCTCCTCAGCGCCGAGATCCCCATCGGCATCTACAGGACCGAGTGCCA
 TGCTTTCTCGGAGCCCCATGACGTCAGAGCCAGTCTCAGATCTCGGTGAACATGGAGGACTGCGAGGAT
 ACTCGGGAGGCCAAGGGACCCTGGGGCACACGAGCTGCATCTGGCAGTGGCAGCACCCATGGCCGTCACG
 GGGCAGTGTGACCCAGTGGAGCACCCACTACTCGTCGCAAGAGCCTGCAAGTGGGCCCGCAAGCTGAG
 TCGCAAGAGCACCAAGCAGGACGGGAAGGCACCTGTGGCCACAGACTGGATCACCCAGCAGCGGCTCAGC
 CTGTACCAGCCTCAGAGCGCCAGGAGCTCTCAGAGCTGGTCAAGAACCAGTGAAGCACCTGGGACTGC
 CCACCCTGGCTATGAGGACGTAGCAAATTTAACAGCCAGTGTGTGATGAATCGGGTAAACCTGGGATA
 TTTGCAAGATGAGATGAACGATCATCACCAGAACCCTTTCTATGTACTCATCAACCCCCGCCAGAC
 ACAAGACTGGAACCAACGACATTGTGTACCTCATCCGTTCCGACCCCTGGCCATGTGGCCAGCAGCT
 CCCAGAGTCGAAAAGCAGCTGCAGCAACAAGCTCTCATCTGTAACTCCTGAGACCAGGGATGAGACCCA
 GCTCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

Sgfl-MluI

ACCN:

NM_175462

Insert Size:

3717 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_175462.4](#), [NP_780671.2](#)

RefSeq Size: 5987 bp

RefSeq ORF: 3717 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 (1) encodes the longest isoform (1).