

Product datasheet for MR223804

Kcnt1 (NM_175462) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnt1 (NM_175462) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>MR223804 representing NM_175462 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCGGGCCAAGCTGCCGCGCTCGCCGTCCGAGGGCAAGGCGGGTCCGGGGACACCCAGCCGGCG
CTGCAGCCCTGAGGAGCCACACGGGCTCAGCCCGCTACTGCCGGCCCGGGCGGGGGCTCCGTGGGCAG
CGACGTGGGCCAGAGGCTTCATGTGGAAGATTTACGCCTGGACTCTTCCCTTTCTCAGGTCCAGGTGGAG
TTCTATGTCAATGAGAACACCTCAAAGAGCGGCTCAAGCTGTTCTTTCATCAAAAACCAAGATCCAGCC
TGAGGATCCGGCTGTTCAACTTTCCTCAAGCTCCTCACCTGCCTGCTGTATATCGTCCGTGTCCTGCT
TGACAACCCAGACCAGGGCATCGGATGCTGGGGCTGCACGAAGTAACTACACTTTCATGGCTCATCC
TCTGAGTTCACCTGGGCTCCCATCCTGTGGGTGGAGAGGAAAATGGCTCTGTGGGTGATCCAGGTATTG
TGGCCACAATAAGCTTCTTAGAGACCATGCTCATCATTTACCTCAGCTACAAAGGCAACATCTGGGAGCA
GATATTCATGTGTCTTTCGTCTTGAGATGATCAACACACTGCCCTTCATCATCACGGTCTTCTGGCCA
CCTCTGCGGAACCTGTTTCATCCCGTGTTCCTCAACTGCTGGCTGGCCAAGCATGCGCTGGAGAACATGA
TTAATGACTTCCACCGTGCCATCCTACGCACACAGTCAGCCATGTTCAACCAGGTGCTCATCCTGTTCTG
CACCTGCTGTGCTGGTCTTACAGGGACCTGTGGGATCCAGCACCTGGAGCGAGCAGGTGGCAACTTG
AACCTGCTGACCTCCTTCTACTTCTGCATCGTGACTTTCTCAACTGTGGGCTTCGGTGATGTGACGCCCA
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GAAGAGTGCAAGTACGCCATGCTGGCCCTGAACTGCATCTGCCCGGCCACCTCCACCCTCATCACCTGC
TGGTGCACACGTCCCGTGGCCAGGAAGGACAGGAGTCTCCCGAGCAGTGGCAGCGCACGTACGGGAGGTG
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CCACCCTGGCTATGAGGACGTAGCAAATTTAACAGCCAGTGTGTGATGAATCGGGTAAACCTGGGATA
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GCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA

Protein Sequence: >MR223804 representing NM_175462
 Red=Cloning site Green=Tags(s)

MARAKLPRSPSEKAGPGDTPAGAAAPEEPHGLSPLLPARGGGSVGSVDVGQRLHVEDFSLDSSLSQVQVE
 FYVNTFKERLKLFFIKNQRSSLRIRLFNFSKLLTCLLYIVRVLLDNDPDQIGCWGCTKYNFTNGSS
 SEFHWAPILWVERKMLWVIQVIVATISFLETMLIIYLSYKGNIEQIFHVSFVLEMINTLPIITVFWP
 PLRNLFIPIVFLNCWLAKHALENMINDFHRAILRTQSAMFNQVILFCTLLCLVFTGTGCGIQHLERAGNL
 NLLTSFYFCIVTFSTVGFVDVTPKIIWPSQLLVILICVTLVVLPLQFEELYLWMERQKSGNYSRHRAR
 TEKHVVLCVSSKIDLLMDFLNEFYAHPRLQDYVYVILCPSEMDVQVRRVLIPIPLWSQRVIYLQGSALKD
 QDLMRAKMDNGEACFILSSRNEVDRTAADHQITLRAWAVKDFAPNCPLYVQILKPENKFHYKFADHVVCE
 EECKYAMLALNCICPATSTLITLLVHTSRGQEQESPEQWQRTYGRCSGNEVYHIRMGDSKFFREYEGKS
 FTYAFAHAKKYGVCLIGLKREENKSILLNPGPRHILAASDTCFYINITKEENSAFIFKQEEKQRRGLA
 GQALYEGPSRLPVHSIIASMGTVAMDLONTDCRPSQGGSGDGTCLTLPTEGSGSRRPSIAPVLELADS
 SALLPCDLLSDQSEDEVTPSDDEGLSVVEYVKGYPNPNPYIGSSPTLCHLLPVKAPFCCLRLDKGCKHNS
 YEDAKAYGFKNKLIIVSAETAGNLYNFIVPLRAYYRSRRELNPVLLLDNKPDDHFLAICCFPMVYYM
 EGSVDNLDSSLQCGIIYADNLVVVDKESTMSAEEDYMAKTIIVNVQTMFRLFPSLSITTELTHPSNMR
 MQFRAKDSYSLALSKLEQERENSNLAFMFRLPFAAGRVSISMLDTLLYQSFVKDYMITITRLLGLD
 TTPGSGYLCAKMTEDDLWIRTYGRLFQKLCSSSAEIPIGIYRTECHVFSEPHDVRAQSQISVNMEDCED
 TREAKPGWTRAASGSGSTHGRHGSADPVEHPLLRRKSLQWARKLSRKSTKQAGKAPVATDWITQQRLS
 LYRRSERQELSELVKNRMKHLGLPTTGIEDVANLTASDVMNRVNLGYLQDEMNDHHQNTLSYVLINPPDP
 TRLEPNDIVYLRSDPLAHVASSQSRKSSCSNKLSSCNPETRDETQL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9001_f06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

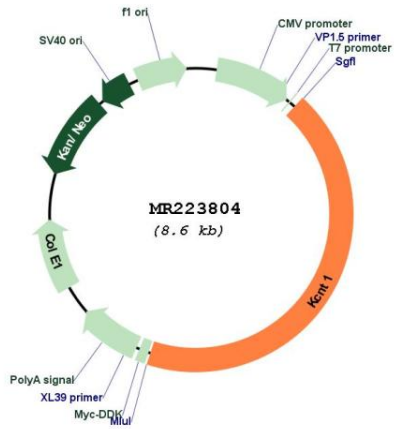


ACCN: NM_175462

ORF Size: 3714 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_175462.4 , NP_780671.2
RefSeq Size:	5893 bp
RefSeq ORF:	3717 bp
Locus ID:	227632
UniProt ID:	Q6ZPR4
Cytogenetics:	2 A3
MW:	140.1 kDa
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]

Product images:



Circular map for MR223804