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Product datasheet for MC208813

Kcnk4 (NM_008431) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnk4 (NM_008431) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnk4
Synonyms:	MLZ-622; Tex40; TRAAK; TRAAKt
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

Fully Sequenced ORF:

>MC208813 representing NM_008431
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCAGCACCACACTCCTGGCTCTGCTGGCACTGGTGCTGCTTTACTTGGTATCTGGGGCTCTAGTGT
TCCAGGCTCTGGAGCAGCCTCACGAGCAGCAGGCTCAGAAGAAAATGGATCATGGCCGAGACCAGTTTCT
GAGGGACCATCCCTGTGTGAGCCAGAAGAGCCTGGAGGATTTCATCAAGCTCCTGGTTGAAGCCCTGGGA
GGGGGCGCAAACCCAGAAACCAGCTGGACCAATAGCAGCAACCACTCATCAGCTTGGAACCTGGGCAGCG
CCTTCTTTTTCTCGGGGACCATCATCACTACCATCGGCTATGGCAATATAGTCTTACACACAGATGCCGG
GCGTCTCTTTTGTATCTTCTATGCACTGGTGGGGATCCCACTGTTCGGGATGCTGCTGGCGGGAGTCGGG
GACCGGCTGGGCTCCTCTCTGCGCCGGGGCATCGGCCACATCGAAGCAATCTTCTTGAAGTGGCATGTGC
CACCGGGGCTGGTGAGAAGTCTGTCCGCAGTGCTCTTCCTGCTGATCGGCTGCCTGCTCTTTGTCCTCAC
TCCTACCTTCGTGTTCTCCTACATGGAGAGCTGGAGCAAGTTAGAAGCCATCTACTTTGTTATAGTGACT
CTCACCACTGTAGGCTTTGGCGATTATGTACCCGGCGATGGCACCGGGCAGAACTCTCCAGCCTACCAGC
CGCTGGTGTGGTTCTGGATCTTGTTTGGCCTAGCCTACTTCGCCTCAGTGCTCACCACCATCGGCAACTG
GTTGCGAGCAGTGTCCCGCCGAACTCGGGCAGAGATGGGTGGCCTAACGGCACAGGCTGCTAGCTGGACC
GGCACAGTGACAGCGCGAGTGACCCAGCGAACTGGGCCCAGCGCCCCGCCGCCAGAGAAGGAGCAACCAC
TCCTGCCCTCCTCTTTGCCGGCACCGCCTGCTGTTGTTGAGCCAGCCGGCAGGCCCGGCTCCCCTGCACC
CGCAGAGAAGGTTGAGACTCCGTCCCCGCCCACGGCCTCAGCTCTGGATTACCCCAGTGAGAATCTGGCC
TTCATCGACGAGTCCTCAGACACGCAGAGTGAGCGTGGCTGTGCCCTGCCTCGGGCTCCTCGGGGTCGCC
GCCGACCCAACCCATCCAAAAAGCCTTCCAGACCCCGGGGTCCTGGGCGACTCCGAGACAAGGCCGTGCC
GGTGTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_008431
Insert Size:	1197 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_008431.2, NP_032457.1
RefSeq Size:	1757 bp
RefSeq ORF:	1197 bp
Locus ID:	16528
UniProt ID:	O88454
Cytogenetics:	19 5.08 cM
Gene Summary:	Voltage-insensitive potassium channel (PubMed:9628867). Channel opening is triggered by mechanical forces that deform the membrane. Channel opening is triggered by raising the intracellular pH to basic levels (By similarity). The channel is inactive at 24 degrees Celsius (in vitro); raising the temperature to 37 degrees Celsius increases the frequency of channel opening, with a further increase in channel activity when the temperature is raised to 42 degrees Celsius (By similarity). Plays a role in the sensory perception of pain caused by pressure (PubMed:19279663). Plays a role in the perception of pain caused by heat (PubMed:19279663).[UniProtKB/Swiss-Prot Function]