

Product datasheet for MC222991

Kcnh1 (NM_010600) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh1 (NM_010600) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Kcnh1
Synonyms:	EAG1; Kv10.1; M-eag
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC222991 representing NM_010600 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCATGGCTGGCGGCCGGGGGACTAGTGGCCCCGAGAACACGTTTCTGGAGAACATCGTGCGGC
GGTCCAACGACACTAATTTTGTGTTGGGAATGCCAGATAGTCGACTGGCCATCGTGTACAGCAATGA
TGGATTCTGCAAGCTGTCTGGCTACCACCGGGCAGAAGTGATGCAGAAAAGCAGCGCCTGCAGTTTTATG
TATGGAGAGCTGACTGACAAGGACACAGTTGAAAAGTTGCCAGACCTTTGAGAACTACGAGATGAATT
CCTTCGAAATTCGATGTACAAGAAGAAGCAGGACACCTGTGTGGTTTTTTGTGAAGATCGCTCCGATCAG
GAACGAACAGGATAAAGTGGTCCTGTTCCCTTTGCACTTTAGCGACATAACTGCATTCAAGCAGCCCATC
GAGGACGACTCCTGCAAAGGTTGGGGAAAGTTGCCCGACTGACCAGAGCTCTGACAAGCAGCAGGGGAG
TCCTGCAGCAGCTGGCCCCAGTGTACAGAAGGGTGAAGATGTTCAAGCACTCGCGCCTGGCAGAGGT
CCTGCAGCTGGGTTACAGACATCCTTCCCGAGTACAAGCAAGAGCGCCAAAGACACCCCTCACATCATC
CTACACTACTGTGCTTTAAGACCAGTGGGATTGGATCATCTTGATCCTGACCTTCTACACAGCCATCT
TGGTCCCTTACAACGTCTCCTTTAAAACCAGGCAGAATAATGTGGCCTGGCTGGTGGTGGACAGCATCGT
GGATGTCATCTTTTTGGTGGACATTGTTTTGAATTTTACACCACCTTTGTCGGGCCAGCGGGGAAAGTG
ATATCTGACCCAAACTATCCGCATGAACACTACCTGAAGACGTTGGTTTTGTGATCGACCTTCTGCTGTT
TGCCGTATGACGTCATCAACGCTTTTGAAGAACGTGGATGAGGTTAGTGCCTTTATGGGTGATCCAGGGAA
GATTGGTTTTGCTGATCAGATCCACCACCACTGGAGGGGAGAGAGAGTCAAGGCATCAGCAGCCTGTTT
AGTTCTCTGAAAGTTGTGCGGCTGCTCCGTCTCGGGCAGTGGCCGCAAAGTGGATCATTACATCGAGT
ATGGAGCCGCGTACTGGTCCTGTTGGTGTGCGTGTGGGCTTGGTCCCACTGGATGGCTGCATCTG
GTACAGCATTGGGGACTATGAGATCTTTGATGAAGACACCAAGACCATCCGCAACAACAGCTGGCTCTAC
CAACTGGCATTGGACATCGCACTCCATACCAGTTTAAATGGGTCTGGTTCAGGGAAGTGGGAAGTGGGC
CAAGCAAGAACTCTGTCTACATCTCCTCGTGTACTTACCATGACAAGTCTCACCAGTGTGGGCTTTGG
TAACATTGCCCATCCACAGACATCGAGAAGATCTTCGAGTGGCCATCATGATGATTGGCTCTCTCTG



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TATGCCACCATCTTTGGGAACGTGACAACCATTTCCAGCAGATGTACGCCAACCAACAGGTACCACG
 AGATGCTCAACAGTGTCCGGGATTTCTGAAGCTCTACCAGGTGCCAAAGGGCTGAGTGAGCGGGTCAT
 GGACTACATTGTGTCCACCTGGTCCATGTCCCAGGCATCGACACAGAGAAGGTCTGCAGATCTGCCCC
 AAGGACATGCGAGCCGACATTTGCGTGCACCTGAACCCGAAAGTGTCAAAGAACACCCTGCCTTCGAT
 TGGCCAGCGATGGCTGCCTGCGGGCCTTGCCATGGAGTTCAGACAGTGCAGTGTGCCCCAGGGGACCT
 CATCTATCATGCTGGAGAGAGTGTGGACAGCCTCTGCTTCGTGGTCTCAGGCTCCCTGGAGGTGATCCAG
 GATGACGAGGTGGTGGCCATCCTAGGGAAGGAGACGTGTTGGGGATGTTTTCTGGAAGGAAGCTACCC
 TTGCACAGTCTGTGCTAATGTCCGGGCCCTTGACCTACTGTGACCTGCAGTGATCAAGAGGGACGCCCT
 TCAGAAAGTGCTAGAATTCTACACAGCCTTCTCCCACTCCTTCTCCCGAACCTGATTCTCACCTACAAC
 CTGAGGAAGAGGATTGTGTTCCGGAAGATCAGCGACGTGAAACGAGAAGAGGAGGAGGATGAAACGGA
 AGAACGAGGCCCCCTTATCCTGCCTCCTGACCACCCCGTCAAGAACTCTTCAAAGGTTCCGCCAGCA
 GAAAGAAGCCAGGCTGGCAGCCGAGAGAGGGGGCCGGGACCTGGATGACCTGGATGTAGAAAAGGGCAAT
 GCCCTCACGGACCATACCTCAGCAACCCACAGCCTGGTGAAGGCCAGTGTGGTACGGTGCCTGAGAGCC
 CCGCCACGCTGTGCTTCCAGGCGGCCACCCTCCACCATGTGACACCAGCAAGCTGCATGCCCC
 CGGATCTGAGTGCCTAGGTCCCAAGGCAGTCACTGTGACCTGCCAAGCGCAAAGGCTGGGCCCGTTTC
 AAAGATGCCTGTGAAAGGGTGAGGATTGGAACAAGGTGTCCAAGGCAGAGTCCAAGGAGAGCTGCCCCG
 AGAGGACAAAGGCACCGGTGAGGCCACCTGAAGAAGACAGACTCCTGTGACAGCGGAATCACCAAGAG
 CGACCTGCGCTTGGACAATGTGGGTGAGACCAGGAGTCCCTCAGGACCGGAGCCCCATCTTGGCTGAGGTC
 AAGCATTCTTTCTACCCATCCCTGAGCAGACGCTGCAGGCCACAGTGTGGAGGTGAAATATGAGCTGA
 AGGAGGATATCAAGGCCTTGAATGCCAAAATGACCTCCATTGAGAAGCAGCTGTCTGAGATACTCAGGAT
 ACTAATGTCCAGAGGGTCCGCCAATCTCCTCAGGAGACGGGTGAGATCTCCAGGCCCCAGTCCCCAGAG
 TCAGACAGAGACATTTTTGGAGCAAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_010600

Insert Size:

2970 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_010600.3](#), [NP_034730.1](#)

RefSeq Size:

7269 bp

RefSeq ORF:

2970 bp

Locus ID: 16510

UniProt ID: [Q60603](#)

Cytogenetics: 1 H6

Gene Summary: Pore-forming (alpha) subunit of a voltage-gated delayed rectifier potassium channel (PubMed:19671703, PubMed:23975098). Channel properties are modulated by subunit assembly. Mediates IK(NI) current in myoblasts. Involved in the regulation of cell proliferation and differentiation, in particular adipogenic and osteogenic differentiation in bone marrow-derived mesenchymal stem cells (MSCs) (By similarity).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).