

Product datasheet for **MC222864**

Kcnh1 (NM_001038607) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh1 (NM_001038607) 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)



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Fully Sequenced ORF: >MC222864 representing NM_001038607
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCATGGCTGGCGGCCGGCGGGACTAGTGGCCCCGAGAACACGTTTCTGGAGAACATCGTGGCGG
 GGTC AACGACACTAATTTGTGTTGGGAATGCCAGATAGTCGACTGGCCATCGTGTACAGCAATGA
 TGGATTCTGCAAGCTGTCTGGCTACCACCGGGCAGAAGTGATGCAGAAAAGCAGCGCCTGCAGTTTTATG
 TATGGAGAGCTGACTGACAAGGACACAGTTGAAAAGGTTCCGACAGACCTTTGAGAACTACGAGATGAATT
 CCTTCGAAATTCTGATGTACAAGAAGAACAGGACACCTGTGTGGTTTTTTGTGAAGATCGCTCCGATCAG
 GAACGAACAGGATAAAGTGGTCTGTTCCTTTGCACTTTCAGCGACATAACTGCATTCAAGCAGCCCATC
 GAGGACGACTCCTGCAAAGGTTGGGGGAAGTTGCCGACTGACCAGAGCTCTGACAAGCAGCAGGGGAG
 TCCTGCAGCAGCTGGCCCCAGTGTACAGAAGGGTGAGAAATGTTACAAGCACTCGCGCCTGGCAGAGGT
 CCTGCAGCTGGGTTGAGACATCCTTCCCAGTACAAGCAAGAGGGCCAAAGACACCCCTCACATCATC
 CTACACTACTGTGCTTTAAGACCACGTGGGATTGGATCATCTTGATCCTGACCTTCTACACAGCCATCT
 TGGTCCCTTACAACGTCTCCTTTAAAACCAGGCAGAATAATGTGGCCTGGCTGGTGGTGGACAGCATCGT
 GGATGTCACTTTTTGGTGGACATTGTTTTGAATTTTACACCACCTTTGTGGGCCAGCGGGGGAAGTG
 ATATCTGACCCCAAATATCCGCATGAACTACCTGAAGACGTGGTTTGTGATCGACCTTCTGTCCTGTT
 TGCCGTATGACGTCATCAACGCTTTTGAGAACGTGGATGAGGGCATCAGCAGCCTGTTCAAGTTCTCTGAA
 AGTTGTGGCGCTGCTCCGTCTCGGGCAGTGGCCCGAAACTGGATCATTACATCGAGTATGGAGCCCGG
 GTACTGGTCTGTTGGTGTGCGTGTGGGCTTGTGCCACTGGATGGCCTGCATCTGGTACAGCATTG
 GGACATGAGACTTTTGTGGAAGACCAAGACCATCCGCAACAACAGCTGGCTCTACCAAGTGGCATT
 GGACTCGGCACTCCATACCAGTTTAATGGGTCTGGTTTACAGGGAAGTGGGAAGGTGGGCCAAGCAAGAAC
 TCTGTCTACATCTCCTCGCTGTACTTACCATGACAAGTCTACCAGTGTGGGCTTTGGTAACTTGCCC
 CATCCACAGACATCGAGAAGATCTTCGAGTGGCCATCATGATGATTGGCTCTTCTGTATGCCACCAT
 CTTTGGGAACGTGACAACATTTTCCAGCAGATGTACGCCAACCAACAGGTACCACGAGATGCTCAAC
 AGTGTCCGGGATTTCTGAAGCTCTACCAGGTGCCAAAGGGCTGAGTGAGCGGGTCATGGACTACATTG
 TGTCACCTGGTCCATGTCCGAGGCATCGACACAGAGAAGGCTCCTGCAGATCTGCCCAAGGACATGCG
 AGCCGACATTTGCGTGCACCTGAACCGCAAAGTGTCAAAGAACCCTGCCTTTGATTGGCCAGCGAT
 GGCTGCCTGCGGGCCTTGCCATGGAGTCCAGACAGTGCAGTGTGCCAGGGGACCTCATCTATCATG
 CTGGAGAGAGTGTGGACAGCCTCTGCTTGGTCTCAGGCTCCCTGGAGGTGATCCAGGATGACGAGGT
 GGTGGCCATCCTAGGAAAGGAGACGTGTTGGGGATGTTTTCTGGAAGGAAGCTACCCTTGACAGTCC
 TGTGCTAATGTCCGGGCCTTGACCTACTGTGACCTGCACGTGATCAAGAGGGACGCCCTTCCAGAAAGTGC
 TAGAATTCTACACAGCCTTCTCCCACTCCTTCTCCCGAACCTGATTCTCACCTACAACCTGAGGAAGAG
 GATTGTGTTCCGGAAGATCAGCGACGTGAAACGAGAAGAGGAGGAGAGGATGAAACGGAAGAACGAGGCC
 CCCCTTATCCTGCCTCCTGACCACCCGTCAGAAGACTTCCAAAGGTTCCGCCAGCAGAAAGAAGCCA
 GGCTGGCAGCCGAGAGAGGGGGCCGGGACCTGGATGACCTGGATGTAGAAAAGGGCAATGCCCTCACGGA
 CCATACCTCAGCAACCACAGCCTGGTGAAGGCCAGTGTGGTACGGTGCCTGAGAGCCCGCCACGCT
 GTGTCTTCCAGCGGCCACCACCTCCACATGTCAGACCACGCCAAGCTGCATGCCCCGGATCTGAGT
 GCCTAGGTCCCAAGGCAGTCACTGTGACCCTGCCAAGCGCAAAGCTGGGCCCGTTTCAAAGATGCCTG
 TGGAAAGGGTGAAGATTGGAACAAGGTGTCCAAGGCAGAGTCCATGGAGACGCTGCCGAGAGGACAAAAG
 GCACCGGGTGAAGCCACGCTGAAGAAGACAGACTCCTGTGACAGCGGAATCACCAGAGCGACCTGCGCT
 TGGACAATGTGGGTGAGACCAGGAGTCTCAGGACCGGAGCCCATCTTGGGTGAGGTCAAGCATTCTTT
 CTACCCCATCCCTGAGCAGACGCTGCAGGCCACAGTGTGGAGGTGAAATATGAGCTGAAGGAGGATATC
 AAGGCCCTGAATGCCAAAATGACCTCCATTGAGAAGCAGCTGTCTGAGATACTCAGGATACTAATGTCCA
 GAGGGTCCGCCAATCTCCTCAGGAGACGGGTGAGATCTCCAGGCCCCAGTCCCCAGAGTCAGACAGAGA
 CATTTTTGGAGCAAGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001038607
Insert Size:	2889 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:	<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:	<u>NM_001038607.2</u> , <u>NP_001033696.1</u>
RefSeq Size:	7188 bp
RefSeq ORF:	2889 bp
Locus ID:	16510
Cytogenetics:	1 H6
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. The encoded isoform (2) is shorter than isoform 1.</p>