

Product datasheet for **MR219261**

Kcnh1 (NM_001038607) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh1 (NM_001038607) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR219261 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

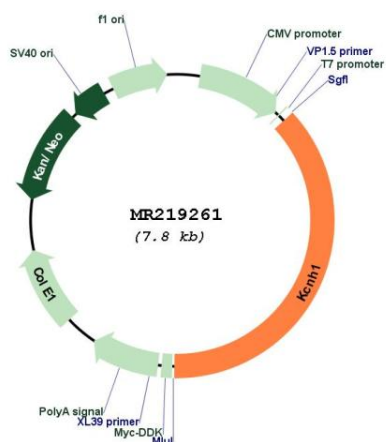
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

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 GGTC AACGACACTAATTTTGTGTTGGGAATGCCAGATAGTCGACTGGCCATCGTGTACAGCAATGA
 TGGATTCTGCAAGCTGTCTGGCTACCACCGGGCAGAAGTGATGCAGAAAAGCAGCGCCTGCAGTTTTATG
 TATGGAGAGCTGACTGACAAGGACACAGTTGAAAAGGTTCCGACAGACCTTTGAGAACTACGAGATGAATT
 CCTTCGAAATTCTGATGTACAAGAAGAACAGGACACCTGTGTGGTTTTTTGTGAAGATCGCTCCGATCAG
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 CCTGCAGCTGGGTTGAGACATCCTTCCCAGTACAAGCAAGAGGGCCAAAGACACCCCTCACATCATC
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 GAGGGTCCGCCAATCTCCTCAGGAGACGGGTGAGATCTCCAGGCCCCAGTCCCAGAGTCAAGACAGAGA
 CATTTTTGGAGCAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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_001038607.2 , NP_001033696.1
RefSeq Size:	7188 bp
RefSeq ORF:	2889 bp
Locus ID:	16510
Cytogenetics:	1 H6
MW:	108.5 kDa
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]

Product images:



Circular map for MR219261