

Product datasheet for **RR205637**

Kcnh1 (NM_031742) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh1 (NM_031742) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnh1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RR205637 representing NM_031742
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCATGGCTGGCGGCCGGCGGGACTAGTGGCCCCGAGAACACATTTCTGGAGAACATCGTCCGGC
 GGTCCAACGACACTAATTTTGTGTTGGGAATGCCAGATCGTGGACTGGCCATCGTGTACAGCAATGA
 TGGATTCTGCAAGCTGTCTGGCTACCACCGAGCGGAAGTGATGCAAAAAGAGTAGCGCCTGCAGTTTTATG
 TATGGAGAGCTGACCGACAAGGACACGGTTGAAAAGGTTCCGACAGACCTTTGAGAACTACGAGATGAACT
 CCTTCGAAATTCTGATGTACAAGAAGAACAGGACACCTGTGTGGTTTTTTGTGAAGATCGCTCCAATCAG
 GAACGAACAGGATAAAGTGGTCTGTTCCTTTGCACTTTCAGTGACATAACGGCATTCAAGCAGCCATT
 GAGGACGACTCCTGCAAAGTTGGGGGAAGTTTGCTCGACTGACGAGAGCTCTGACAAGCAGCAGGGGAG
 TCCTGCAGCAGCTGGCCCCAGTGTGCAAGGGTGAGAATGTTACAAGCACTCGCCCTGGCAGAGGT
 CCTGCAGCTGGTTCAGACATCCTCCCCAGTACAAGCAAGAGGGCCAAAGACACCCCTCACATCATC
 CTACACTACTGTGCTTTAAGACCACATGGGATTGGATCATCTTGATCCTGACCTTCTACACAGCCATCC
 TGGTCCCTTACAACGTCTCCTTTAAAACCAGGCAGAATAACGTGGCCTGGCTGGTGGTGGACAGCATCGT
 GGATGTCACTTTTTGGTGGACATTGTCTTGAATTTTACACCACCTTTGTGGGCCAGCGGGGGAAGTG
 ATCTCTGACCCCAAATATCCGCATGAACTACCTGAAGACGTGGTTTGTGATCGACCTTCTCCTCTGT
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 GGAATTATGAGACTTTTATGAAGACACCAAGACCATCCGTAACAACAGCTGGCTCTACCAAGTGGCATT
 GGACATTGGCACTCCATACCAGTTTAATGGGTCTGGTTTCGGGGAAGTGGGAAGCGGGCCAAGCAAGAAC
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 CTTTGGGAATGTGACGACCATTTTCCAGCAGATGTATGCCAACCAACAGGTATCATGAGATGCTCAAC
 AGCGTCCGGGATTTCTGAAGCTCTACCAGGTGCCAAGGGGCTGAGCGAGCGGGTATGGACTACATTG
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 AGCTGACATTTGCGTACACCTGAACCGAAAAGTGTCAAAGAACACCCCGCTTCCGGCTGGCCAGCGAT
 GGTTCCTGAGGGCCTTGCCATGGAGTCCAGACAGTACACTGCCCCAGGGACCTCATCTATCACG
 CCGGGGAGAGTGTGGACAGCCTCTGCTTCGTGGTCTCGGGCTCCCTGGAGGTGATCCAGGATGATGAGGT
 GGTGGCCATCCTAGGAAAGGAGATGTGTTGGGGATGTTTTCTGGAAGGAGGCTACCCTTGACAGTCC
 TGCGCTAATGTCCGGCCTTGACCTACTGTGACCTGCACGTGATCAAGAGGGATGCCCTGCAAAAAGTGC
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 GATTGTGTTCCGGAAGATCAGCGACGTGAAACGAGAAGAAGAGGAGAGGATGAAACGGAAGAACGAGGCC
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 GGCTGGCAGCCGAGAGAGGTGGCCGGGACCTGGATGACCTGGATGTAGAGAAGGGCAATGCCCTCACGGA
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 AAGGCCTTGAATGCCAAAATGACCTCCATTGAGAAGCAGCTGTCTGAGATCCTCAGGATACTCATGTCCA
 GAGGGTCTCCAGTCTCCGACGACACGTGTGAGGTCTCCAGGCCCCAGTCCCAGAGTACAGACAGAGA
 CATTTTTGGGGCAAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR205637 representing NM_031742
 Red=Cloning site Green=Tags(s)

MTMAGGRRGLVAPQNTFLENIVRRSNDTNFVLGNAQIVDWPPIVYSNDGFCKLSGYHRAEVMQKSSACSFMYGELTDKDTVEKVRQTFENYEMNSFEILMYKKNRTPVWFFVKIAPIRNEQDKVFLFCTFSDITAFKQPIEDDSCKGWGKFARLTRALTSRGLVQLAPSVQKGENVHKHSRLAEVLQLGSDILPQYKQEAPKTPPHIILHYCVFKTTWDWIILILTFYTAILVPYVNSFKTRQNNVAWLVDVSDVDFLVDIVLNFHTTFVGPAGEVISPDKLIRMNYLKTWFVIDLLSCLPYDVINAFENVDEGISSLFSSLKVVRLRLGRVARKLDHYIEYGAAVLVLLVCFVGLAAHWMACIWYSIGDYEIFDEDTKTIRNNSWLYQLALDIGTPYQFNGSGSGKWEVGGPSKNVYISSLYFTMTSLTSVGFNGNIAPSTDIEKIFAVAIMMIGSLLYATIFGNVTTIFQQMYANTNRYHEMLNSVRDFLKLQVPGKLSERVMDYIVSTWSMSRGIDTEKVLQICPKDMRADICVHLNRKVFKEHPAFRLASDGCLRALAMEFQTVHCAPGDLIYHAGESVDSL CFVVSLSLEVIQDDEVVAILGKGDVFGDVFWEATLAQSCANVRALTYCDLHVIKRDALQKVFYTFASHFSRNLILTYNLRKRIVFRKISDVKREEEERMKRKNEAPLILPPDHPVRRLFQRFQKQEARLAAERGGRLDLDLVEKGNALTDHTSANHSLVKASVTVRESPATPVSFQAASTSTVSDHAKLHAPGSECLGPKAGGGDPAKRKGWARFKDACGKGEDWNKVSKAESMETLPERTKASGEATLKKTDSCDSGITKSDLRLDNVGEARSPQDRSPILAELVHSFYPIPEQTLQATVLEVKHELKEDIKALNAKMTSIEKQLSEILRILMSRGSSQSPQDCEVSRPQSPESDRDIFGAS

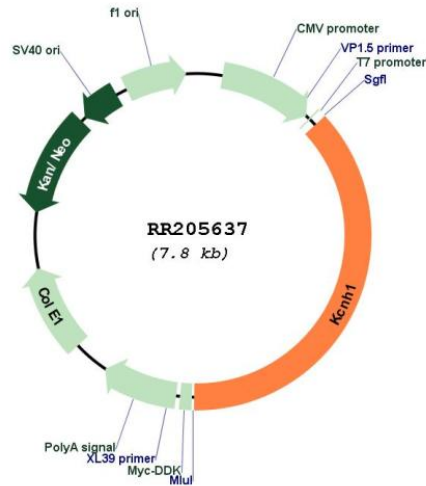
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_031742

ORF Size: 2886 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:

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_031742.1](#), [NP_113930.1](#)

RefSeq Size: 4569 bp

RefSeq ORF: 2889 bp

Locus ID: 65198

UniProt ID: [Q63472](#)

Cytogenetics: 13q27
MW: 108.3 kDa
Gene Summary: pore forming subunit of voltage gated potassium channel [RGD, Feb 2006]