

Product datasheet for MR227000

Kcnh2 (NM_013569) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh2 (NM_013569) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnh2
Synonyms:	AI326795; ERG1; LQT; Lqt2; M-erg; Merg1; merg1a; merg1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227000 representing NM_013569 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTGCGGAGGGGCCACGTCGCGCCGAGAACACCTTCCTCGACACCATCATCCGCAAGTTTGAGG
GCCAGAGCCGCAAGTTCATCATCGCTAACGCGCGCGTAGAGAAGTGCCTGTCTACTGCAACGACGG
CTTCTGCGAACTGTGTGGCTACTCGCGGGCCGAGGTGATGCAGCGGCCCTGCACCTGCGATTTCTGCAT
GGGCCGCGCACGACGCGCGTCCCGCCGCGCAGATCGCGCAGGCCCTGCTGGGCGCAGAGGAGCGCAAAG
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TGAAGATGGGGCTGTGATCATGTTTCATCCCTCAACTTTGAAGTAGTATGGAGAAGGACATGGTAGGGTCC
CCGGCTCATGACACCAACCACAGGGGCCCTCTACCAGCTGGCTAGCTTCTGGCCGGGCCAAGACTTTCC
GCCTGAAGCTGCCTGCCTTGTGGCACTGACGGCCAGGAATCATCTGTGCGGACAGGAAGCATGCGCAG
TGCTGGAGCCCTGGGGCGGTGGTGGTGGATGTGGACCTGACGCCGCGCAGCACCAGCAGTGAAGTCCCTG
GCCTTGGATGAGGTTTCTGCCATGGACAACCATGTGGCAGGGCTTGGCCCTGCAGAAGAGAGGGCAGCAC
TGGTGGGCCCGGGTCTGCTTACCAGTAGCCAGCATCCGAGGCCCTCACCCATCGCCACGAGCTCAGAG
CCTTAACCCTGATGCCTCAGTTCCAGCTGCAGCCTGGCCCGACACGCTCCCGTGAGAGCTGCGCTAGC
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CTGGCTTACCCACCAAGTACCGGGAGATTATAGCACCCAAGATAAAGAGCGGACCCACAATGTACCCG
AGAAGGTACCCAGTCTGTCTTGGGAGCAGATGTGCTGCCTGAGTATAAGCTGCAGGCCCAAGAAT
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CCCCTGACTGTGGCTACGCTGCCAGCCCTGGCTGTAGTGGACCTCATCGTGGACATCATGTTTCATTGT
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ATTGCTGTGCACTACTTCAAGGGCTGGTTTCTATTGACATGGTGGCTGCCATCCCCTTCGACCTGCTCA
TCTTTGGCTCTGGCTCCGAGGAGCTGATCGGGCTGCTGAAAACCTGCGAGGCTGCTGCGGCTGGTGC GCGT
GGCTCGGAAGCTGGACCGCTACTCGGAGTACGGGGCAGCAGTGCTCTTCTGCTCATGTGCACCTTCGCC
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CATCCCCCTGTCTAGCCCTGGTCCGCGATCCCGGGGTGATGTGGAGAGCAGGCTGGACGCACTCCAGAGA
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TGACCCTGGTCCCTCCTGCCTACAGTGTGTGACCACCCCTGGGCCCGGCCCACTTCCGCATCCCCCTT
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ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227000 representing NM_013569
 Red=Cloning site Green=Tags(s)

MPVRRGHVAPQNTFLDTIIRKFEQSRKFIANARVENCAVIYCNDFCELCGYSRAEVMQRPCTCDFLH
 GPRTQRRAAAQIAQALLGAEERKVEIAFYRKDGCFLCLVDVVPVKNEGAVIMFILNFEVMEKDMVGS
 PAHDTNHRGPSTSWLASGRAKTFRLKLPALLALTARESSVRTGSMRSAGAPGAVVDVLDLTPAAPSSSEL
 ALDEVSAMDNHVAGLGAPEERRALVGPASPVASIRGPHSPRAQSLNPDASGSSCSLARTRSRESCAS
 VRRASSADDIEAMRAGALPPPRHASTGAMHPLRSGLLNSTSDSLVRYRTISKIPQITLNFVDLKGDPF
 LASPTSREIIAPKIKERTHNVTEKVTQVLSLGADVLPEYKLQAPRIHRWTILHYSFPKAVWDWLI LLLV
 IYTAVFTPYSAFLLKETEDGSQAPDCGYACQPLAVVDLIVDIMFIVDILINFRTTYVNANEVVSHPGR
 IAVHYFKGWFLIDMVAIPFDLLIFGSGSEELIGLLKTARLLRLVRVARKLDRYSEYGAAVLFLMCTFA
 LIAHWLACIWIYAIGNMEQPHMDSHIGWLHNLGDQIGKPYNSSGLGGPSIKDKYVTALYFTFSSLTSVGF
 NVSPNTNSEKIFSI CVM LIGSLMYASIFGNVSAIIQRLYSGTARYHTQMLRVREFIRFHQIPNLRQRLE
 EYFQHAWSYTNIDMNAVLKGFPECLQADICLHLNRSLLQHCKPFRGATKGLRALAMFKTTHAPPGDT
 LVHAGDLLTALYFISRGSIEILRGDVVVAILGKNDIFGEPLNLYARPGKSNQDVRALTYCDLHKIHRDDL
 LEVLDMYPEFSDFWSSLEITFNLRDNTMIPGSPGSAELESFNRQRKRLSFRRRDVKDTEQPGEVSAL
 GQGPARGVGPSPCRGQPGGPWGESPPSSGPSPESSEDEGPRSSSPLRLVPFSSPRPPGDPGPEPLTED
 GEKSDTCNPLSGAFSGVSNIFSWGDSRGRQYQELPRCPAPAPALLNIPLSSPGRRSRGDVESRLDALQR
 QLNRLRETRLADMATVLLQRLQMTLVPPAYSAVTTPGPGPTSASPLLPVGPVPTLTLDSLQVSVQFVAV
 EELPAGAPELPQDGPTRRLSLPGQLGALTSQPLHRHGS DPGS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9002_a02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

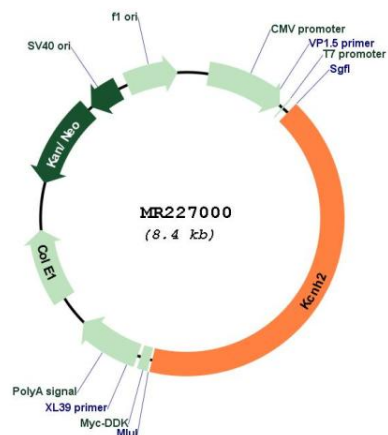


ACCN: NM_013569

ORF Size: 3486 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:	<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_013569.2 , NP_038597.2
RefSeq Size:	4221 bp
RefSeq ORF:	3489 bp
Locus ID:	16511
Cytogenetics:	5 10.94 cM
MW:	127.4 kDa
Gene Summary:	Pore-forming (alpha) subunit of voltage-gated inwardly rectifying potassium channel. Channel properties are modulated by cAMP and subunit assembly. Mediates the rapidly activating component of the delayed rectifying potassium current in heart (IKr) (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR227000