

Product datasheet for RC217540

KCNH6 (NM_030779) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNH6 (NM_030779) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNH6
Synonyms:	ERG-2; ERG2; hERG-2; HERG2; Kv11.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217540 representing NM_030779 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTCCGCAGGGGCCACGTCGCTCCCCAAAACACTTACCTGGACACCATCATCCGCAAGTTCGAGG
GCCAAAGTCGGAAGTTCCTGATTGCCAATGCTCAGATGGAGAAGTGCGCCATCATTTACTGCAACGACGG
CTTCTGCGAACTTTCGGCTACTCCGAGTGGAGGTGATGCAGCAACCCTGCACCTGCGACTTCCTCACA
GGCCCCAACACACCAAGCAGCGCCGTGTCCCGCTAGCGCAGGCCCTGCTGGGGGCTGAGGAGTGAAGG
TGGACATCTCTACTACCGCAAGGATGCCTCCAGCTTCCGCTGCCTGGTAGATGTGGTGCCTGTAAGAA
CGAGGACGGGGTGTATCATGTTCACTTCAACTTCGAGGACCTGGCCAGCTCCTGGCCAAGTGCAGC
AGCCCGAGCTTGTCCCAGCGCCTGTTGTCCCAGAGCTTCTGGGCTCCGAGGGCTCTCATGGCAGGCCAG
GCGGACCAGGGCCAGGCACAGGCAGGGGCAAGTACAGGACCATCAGCCAGATCCCACAGTTCACGCTCAA
CTTCGTGGAGTTCAACTTGGAGAAGCACCGCTCCAGCTCCACCACGGAGATTGAGATCATCGCGCCCAT
AAGGTGGTGGAGCGGACACAGAAGTCACTGAGAAGGTCAACCCAGGTCTGTCCCTGGGCGCGGATGTGC
TGCCGGAGTACAAGCTGCAGGCGCCGCGCATCCACCGTGGACCATCCTGCACTACAGCCCTTCAAGGC
CGTGTGGGACTGGCTCATCTGCTGCTGGTCACTACACGGCTGTCTTACGCCCCACTCAGCCGCCTTC
CTGCTCAGCGATCAGGACGAATCAGGGCTGGGGCTGCAGCTATACCTGCAGTCCCCTCACTGTGGTGG
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TGATGAGTGGTCAAGCACCCCGCCGATCGCGTCCACTACTTCAAGGGCTGGTTCCTATTGACATG
GTGGCCGCCATCCCTTTCGACCTCCTGATCTTCCGCACTGGCTCCGATGAGACCACAACCCTGATTGGGC
TATTGAAGACAGCGCGGCTGCTGCGGCTGGTGCAGTAGCACGGAAGCTGGACCGCTACTCTGAGTATGG
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CTACTTACCTTACGAGCCTACCAGCGTGGGCTTCGGCAATGTCTCGCCAACACCAACTCCGAGAAG



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GTCTTCTCCATCTGCGTCATGCTCATCGGCTCCCTGATGTACGCCAGCATCTTCGGGAACGTGTCCGCGA
 TCATCCAGCGCCTGACTCGGGCACC GCGCGCTACCACACGCAGATGCTGCGTGTCAAGGAGTTCATCCG
 CTTCCACCAGATCCCAACCCACTGCGCCAGCGCCTGGAGGAGTATTTCCAGCACGCCTGGTCTACACC
 AATGGCATTGACATGAACGCGGTGCTGAAGGGCTTCCCGAGTGCCTGCAGGCTGACATCTGCCTGCACC
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 CCCCCGACAGGCTCCTGGCAGCCAAGACCACCAAGGTTTCTTTCTCAGTGACAACCAGTCAGGGTCTCC
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 GCTGCCCCAGGGCTTTCTGCCTCCTGCACAGACCCCAAGCTATGGAGACTTGGATGACTGTAGTCCAAA
 CACAGGAACTCCTCCCCAGGATGCCTCACCTGGCTGTGGCAACGGACAAAACCTTGGCACCATCCTCAG
 AACAGGAACAGCCTGAGGGGCTCTGGCCACCCCTAGCCTCACCTTACATCCCCTGGAAGTACAAGGACT
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 AGACATGGCTCAGATCCTGGATTTGCAGGGAGTTGGGGCCAC

ACGCGTACGCGCGCCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC217540 representing NM_030779
 Red=Cloning site Green=Tags(s)

MPVRRGHVAPQNTYLDTIIRKFEGQSRKFLIANAQMENCAIICYNDGFCELFYGSRVEVMQPCTCDFLT
 GPNTPSSAVSRLAQALLGAECKVDILYYRKDASSFRCLVDVVPVKNEGDGAVIMFLNFEDLAQLLAKCS
 SRLSQRLLSQSFLGSEGSHPGPGPGTGRGKYRTISQIPQFTLNFVEFNLEKHRSSSTTEIEIIAPH
 KVERTQNVTEKVTQVLSLGADVLPEYKLQAPRIHRWTILHYSFKA VWDWLILLVIYTA VFTPYSAAF
 LLSQDESRGACSYTCSPLTVVDLIVDIFVVDIVINFRTTYVNTNDEVVSHPRRIAVHYFKGWFLIDM
 VAAIPFDLLIFRTGSDTTTTLIGLLKTARLLRLVRVARKLDRYSEYGA AVL FLLMCTFALIAHWLACI
 WIY AIGNVERPYLEHKIGWLDLGVQLGKRYNGSDPASGPSVQDKYVTALYFTFSSLTSVGFGNVSPNTNSEK
 VFSICVMLIGSLMYASIFGNVSAIQRLYSGTARYHTQMLRVKEFIRFHQIPNPLRQRLEEFQHAWSYT
 NGIDMNAV LKGFPECLQADICLHLHRALLQHCPAFSGAGKGCLRALAVKFKTTHAPPGDTLVHLGDVLS
 TYFISRGSIEILRDDVVVA I LGNDIFGEPVSLHAQPGKSSADVRALTYCDLHKIQRADLLEVLDMYPAF
 AESFWSKLEVTFLNRDAAGGLHSSPRQAPGSQDHQGFFLSDNQSGSPELGPQFP SKGYSLLGPGSQNSM
 GAGPCAPGHPDAAPPLSISDASGLWPELLQEMPPRHSPQSPQEDPDCWPLKLSRLEQLQAQMNRLSERV
 SSDLSRILQLLQKMPQGHASYILEAPASNDLALVPIASETTSPGPRLPQGFLPPAQTPSYGDLDDCSPK
 HRNSSPRMPLAVATDKTLAPSSSEQEPEGLWPPLASPLHPLEVQGLICGPCFSSLPEHLGSPVKQLDFQ
 RHGSDPGFAGSWG H

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_030779

ORF Size: 2982 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).

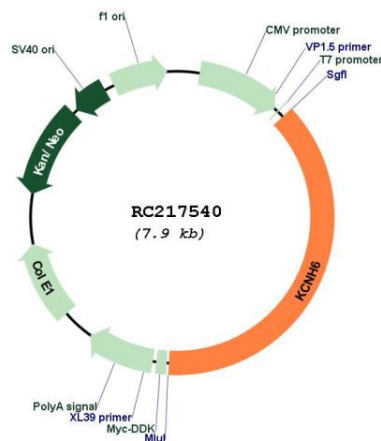
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_030779.4](#)

RefSeq Size: 3421 bp

RefSeq ORF:	2985 bp
Locus ID:	81033
UniProt ID:	Q9H252
Cytogenetics:	17q23.3
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
MW:	109.7 kDa
Gene Summary:	Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. This gene encodes a member of the potassium channel, voltage-gated, subfamily H. This member is a pore-forming (alpha) subunit. Alternative splicing results in multiple transcript variants that encode different isoforms. [provided by RefSeq, Jul 2013]

Product images:



Circular map for RC217540