

Product datasheet for **RC239652**

KCNH6 (NM_001278920) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNH6 (NM_001278920) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNH6
Synonyms:	ERG-2; ERG2; hERG-2; HERG2; Kv11.2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC239652 representing NM_001278920
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTCATTCTCAACTTCGAGGACCTGGCCAGCTCCTGGCCAAGTGCAGCAGCCGAGCTTGTCACAGC
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AGGCAGGGGCAAGTACAGGACCATCAGCCAGATCCACAGTTCACGCTCAACTTCGTGGAGTTCAACTTG
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AGAACGCTCACTGAGAAGGTCAACCAGGTCTGTCCCTGGGCGGGATGTGCTGCCGGAGTACAAGCTGCA
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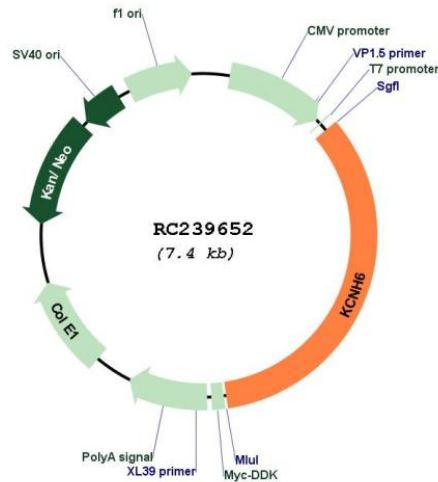
Protein Sequence: >RC239652 representing NM_001278920
Red=Cloning site Green=Tags(s)

MFILNFEDLAQLLAKCSSRSLSQRLLSQSFLGSESHGRPGGPGTGRGKYRTISQIPQFTLNFEVFNLEKHRSSSTTEIEIIAPHKVVERTQNVTEKVTQVLSLGADVLPEYKLQAPRIHRWTILHYSFPKAVWDWLI
LLLVIYTAVFTPYSAAFLLSDQDESRRGACSYTCSPLTVVDLIVDIMFVVDIVINFRTTYVNTNDEVVSH
PRRIAVHYFKGWFLIDMVAIIPFDLLIFRTGSDETTTLIGLLKTARLLRLVRVARKLDRYSEYGAAVLFL
LMCTFALIAHWLACIWYAIGNVERPYLEHKIGWLDLGLVQLGKRYNGSDPASGPSVQDKYVTALYFTFSS
LTSVGFVGNVSPNTNSEKVFVSIKVMIGSLMYASIFGNVSAIIQRLYSGTARYHTQMLRVKEFIRFHQIPN
PLRQRLEEYFQHAWSYTNGIDMNAVLKGFPECLQADICLHLHRALLQHCPAFSGAGKGLRALAVKFKTT
HAPPGDTLVHLGDVLTLYFISRGSIEILRDDVVVAILGKNDIFGEPVSLHAQPGKSSADVRALTYCDLH
KIQRADLLEVLDMYPAFAESFWSKLEVTFNLRDAAGGLHSSPRQAPGSQDHQGFLLSDNQSDAAPPLSIS
DASGLWPELLQEMPPRHSPQSPQEDPDCWPLKLSRLEQLQAQMNRLSERVSSDLSRILQLLQKMPQGH
ASYILEAPASNDLALVPIASETTSPGPRLPQGFLLPQAQTPSYGDLDDCSPKHRNSSPRMPHLAVATDKTL
APSSEQEQPEGLWPPLASPLHPLEVQGLICGPCFSSLPEHLGSVPKQLDFQRHGSDPGFAGSWG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Plasmid Map:



ACCN: NM_001278920

ORF Size: 2505 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_001278920.2](#)

RefSeq Size: 3650 bp

RefSeq ORF: 2508 bp

Locus ID: 81033

UniProt ID: [Q9H252](#)

Cytogenetics: 17q23.3

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

MW: 93.2 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]