

Product datasheet for **RG239652**

KCNH6 (NM_001278920) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNH6 (NM_001278920) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KCNH6
Synonyms:	ERG-2; ERG2; hERG-2; HERG2; Kv11.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239652 representing NM_001278920.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTATTCTCAACTTCGAGGACCTGGCCAGCTCCTGGCCAAGTGCAGCAGCCGAGCTTGTCCCAG
CGCTGTTGTCCCAGAGCTTCTGGGCTCCGAGGGCTCATGGCAGGCCAGGCGGACCAGGGCCAGGC
ACAGGCAGGGGCAAGTACAGGACCATCAGCCAGATCCCACAGTTCACGCTCAACTTCGTGGAGTTCAAC
TTGGAGAAGCACCCTCCAGCTCCACCACGGAGATTGAGATCATCGCGCCCCATAAGGTGGTGGAGCGG
ACACAGAACGTCCTGAGAAGGTCACCCAGGTCCTGTCCCTGGGCGGGATGTGTGCCGGAGTACAAG
CTGCAGGCGCCGCGCATCCACCCTGGACCATCCTGCACTACAGCCCTTCAAGGCCGTGTGGGACTGG
CTCATCTGTGTGGTCTACACGGCTGTCTTACGCCCTACTCAGCCGCTTCTGCTCAGCGAT
CAGGACGAATCACGGCGTGGGCTGCAGCTATACCTGCAGTCCCCTACTGTGGTGGATCTCATCGTG
GACATCATGTTTCGTGGTGCATCGTCAACTTCCGACCACCTATGTCAACACCAATGATGAGGTG
GTCAGCCACCCCGCCGATCGCCGTCCACTACTTCAAGGGCTGGTTCTTATTGACATGGTGGCCGCC
ATCCCTTTTCGACCTCCTGATCTTCCGACTGGCTCCGATGAGACCACAACCCTGATTGGGCTATTGAAG
ACAGCGCGGCTGCTGCGGCTGGTGCAGTGCAGCGGAAGCTGGACCGCTACTCTGAGTATGGGGCGGCT
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GGCAATGTGGAGCGGCCCTACCTAGAACAAGATCGGCTGGCTGGACAGCCTGGGTGTGCAGCTTGGC
AAGCGCTACAACGGCAGCGACCCAGCCTCGGGCCCTCGGTGCAGGACAAGTATGTCACAGCCCTTAC
TTCACCTTCAGCAGCCTCACCAGCGTGGGCTTCGGCAATGTCTCGCCAAACCAACTCCGAGAAGGTG
TTCTCCATCTGCGTATGCTCATCGGCTCCCTGATGTACGCCAGCATCTCGGGAACGTGTCGGCGATC
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TTCCACCAGATCCCAACCCACTGCGCCAGCGCCTGGAGGAGTATTTCCAGCAGCCTGGTCTACACC
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CTGCACCGCGCACTGCTGCAGCACTGCCAGCTTTCAGCGGCGCCGCAAGGGCTGCCTGCGCGCGCTA
GCCGTCAAGTTCAAGACCACCCAGCGCCGCTGGGGACAGCTGGTGCACCTCGCGACGTGCTCTCC
ACCCTCTACTTCTCCCGAGGCTCCATCGAGATCCTGCGCGACGACGTGGTCTGGCCATCCTAGGA
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GCTCTGACCTACTGCGACCTGCACAAGATCCAGCGGGCAGATCTGCTGGAGGTGCTGGACATGTACCG
GCCTTTGCGGAGAGCTTCTGGAGTAAGCTGGAGGTCACCTTCAACCTGCGGGACGACCCGGGGTCTC
CACTCATCCCCCGACAGGCTCCTGGCAGCCAAGACCACCAAGGTTTCTTCTCAGTGACAACAGTCA
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CCAAGGCACAGCCCCAAAGCCCTCAGGAAGACCCAGATTGCTGGCCTCTGAAGCTGGGCTCCAGGCTA
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CTCCTCCAGAAGCCATGCCCGAGGACGACGAGTACATTCTGGAAGCCCTGCCTCCAATGACCTG
GCCTTGGTTCTATAGCCTCGGAGACGACGAGTCCAGGGCCAGGCTGCCCGAGGCTTCTGCCTCCT
GCACAGACCCCAAGCTATGGAGACTTGGATGACTGTAGTCAAAGCACAGGAACCTCCCCAGGATG
CCTCACCTGGCTGTGGCAACGGACAAAACCTTGGCACCATCCTCAGAACAGGAACAGCCTGAGGGGCTC
TGGCCACCCCTAGCCTCACCTCTACATCCCTGGAAGTACAAGGACTCATCTGTGGTCCCTGCTTCTCC
TCCCTCCCTGAACACCTTGGCTCTGTTCCAAGCAGCTGGACTTCCAGAGACATGGCTCAGATCCTGGA
TTTGCAGGGAGTTGGGGCCAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239652
Blue=ORF Red=Cloning site Green=Tag(s)

MFILNFEDLAQLLAKSSRSLSQRLLSQSFLGSESHGRPGGPGGTGRGKYRTISQIPQFTLNFEFN
LEKHRSSSTTEIEIIAPHKVVVERTQNVTEKVTQVLSLGADVLPYKQLQAPRIHRWTILHYSFKAVWDW
LILLLLVIYTAFTPYSAAFLLSDQDESRRGACSYTCSPLTVVDLIVDIMFVVDIVINFRTTYVNTNDEV
VSHPRRIAVHYFKGWFLIDMVAIIPFDLLIFRTGSDETTLIGLLKTARLLRLRVARKLDRYSEYGAA
VLFLLMCTFALIAHWLACIWIYAIGNVERPYLEHKIGWDSLGVQLGKRYNGSDPASGPSVQDKYVTALY
FTFSSLTSVGFGNVSPNTNSEKVFISICVMLIGSLMYASIFGNVSAIIQRLYSGTARYHTQMLRVKEFIR
FHQIPNPLRQRLEEFQHAWSYTNIDMNAVLKGFPECLQADICLHLHRALLQHCPAFSGAGKGCLRAL
AVKFKTTHAPPGDTLVHLGDVLSLYFISRGSIEILRDDVVVAIILGKNDIFGEPVSLHAQPGKSSADV
ALTYCDLHKIQRADLLEVLDMYPFAESFWSKLEVTFNLRDAAGGLHSSPRQAPGSQDHQGFLLSDNQS
DAAPPLISDASGLWPELLQEMPPRHSPQSPQEDPCWPLKLSRLEQLQAQMNRLSERVSSDLRILQ
LLQKMPQGHASYILEAPASNDLALVPIASETTSPGPRLPQGFLLPQAQTPSYGDLDDCSPKHRNSSPRM
PHLAVATDKTLAPSSEQEPEGLWPPLASPLHPLEVQGLICGPCFSSLPEHLGSVPKQLDFQRHGSDPG
FAGSWG

TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-Mlul

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).
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]