

Product datasheet for **RG217540**

KCNH6 (NM_030779) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | KCNH6 (NM_030779) 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:

>RG217540 representing NM_030779
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGGTCCGCAGGGGCCACGTGCTCCCCAAAACACTTACCTGGACACCATCATCCGCAAGTTCGAGG
 GCCAAAGTCGGAAGTTCCTGATTGCCAATGCTCAGATGGAGAAGTGCATCATTACTGCAACGACGG
 CTTCTGCGAACTCTTCGGCTACTCCCGAGTGGAGGTGATGCAGCAACCCTGCACCTGCGACTTCCTCACA
 GGCCCCAACACACCAAGCAGCGCGTGTCCCGCTAGCGCAGGCCCTGCTGGGGCTGAGGAGTGAAGG
 TGGACATCTACTACCGCAAGGATGCCTCCAGCTTCGCTGCCTGGTAGATGTGGTGCCTGGAAGAA
 CGAGGACGGGGTGTATCATGTTCACTTCAACTTCGAGGACCTGGCCAGCTCCTGGCCAAGTGCAGC
 AGCCGACGCTTGTCCAGCGCTGTTGTCCAGAGCTTCTGGGCTCCGAGGGCTCATGGCAGGCCAG
 GCGGACCAGGGCCAGGCACAGGCAGGGCAAGTACAGGACCATCAGCCAGATCCCACAGTTCACGCTCAA
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 AAGGTGGTGGAGCGGACACAGAAGTCACTGAGAAGGTACCCAGGTCTGTCCCTGGGCGCGGATGTGC
 TGCCGGAGTACAAGTGCAGGCGCCGCGCATCCACCGCTGGACCATCCTGCACTACAGCCCTTCAAGGC
 CGTGTGGGACTGGCTCATCTGTGCTGGTCACTACACGGCTGTCTTACGCCCCTACTCAGCCGCTTC
 CTGCTCAGCGATCAGGACGAATCAGGCGTGGGCGCTGCAGTATACCTGCAGTCCCCTCACTGTGGTGG
 ATCTCATCGTGGACATCATGTTCTGCTGGACATCGTCACTCAACTCCGACACCTATGTCAACACCAA
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 TATTGAAGACAGCGGGTGTGCGGCTGGTGGCGTGCAGGAAAGTGGACCGTACTGATGATGG
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 TCATCCAGCGCTGACTCGGGCACCAGCGCTACCACACGAGATGCTGCGTGTCAAGGAGTTCATCCG
 CTTCCACCAGATCCCAACCCACTGCGCCAGCGCTGGAGGATATTTCCAGCACGCTGGTCTACACC
 AATGGCATTGACATGAACGCGGTGCTGAAGGGCTTCCCGAGTGCCTGCAGGCTGACATCTGCCTGCACC
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 CTCTACTTCACTCTCCCGAGGCTCCATCGAGATCCTGCGCGACGACGTGGTCTGGCCATCTAGGAAAGA
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 GACCTACTGCGACCTGCAACAAGTCCAGCGGGCAGATCTGCTGGAGGTGCTGGACATGTACCCGGCTTT
 GCGGAGAGCTTCTGGAGTAAGCTGGAGGTACCTTCAACTGCGGGACGACGCGGGGTCTCCACTCAT
 CCCCCGACAGGCTCCTGGCAGCCAAGACCACCAAGGTTTCTTCTCAGTGACAACCAAGTCCAGGGTCTCC
 CCATGAGCTGGGCCCCAGTCCCCTTAAGGGCTACAGCCTCCTGGGCTCCTGGGACCCAGAACTCCATG
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 TCTGGCCTGAGCTACTGCAGGAAATGCCCCAAAGGCACAGCCCCAAAGCCCTCAGGAAGACCCAGATTG
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 AACAGGAACAGCCTGAGGGGCTCTGGCCACCCCTAGCCTCACCTACATCCCCTGGAAGTACAAGGACT
 CATCTGTGGTCCCTGCTTCTCCTCCCTGAACACCTTGGCTCTGTTCCCAAGCAGCTGGACTCCAG
 AGACATGGCTCAGATCCTGGATTTCAGGGAGTTGGGGCCAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG217540 representing NM_030779
 Red=Cloning site Green=Tags(s)

MPVRRGHVAPQNTYLDTIIRKFEGQSRKFLIANAQMENCAIICYNDGFCELFGYSRVEVMQPCTCDFLT
 GPNTSSAVSRLAQALLGAECKVDILYYRKDASSFRCLVDVVPVKNEGDGAVIMFILNFEDLAQLLAKCS
 SRSLSQRLLSQSFLGSEGSHRPGGPGGTGRGKYRTISQIPQFTLNFEFNLEKHRSSSTTEIEIIAPH
 KVVVERTQNVTEKVTQVLSLGADVLPYKQLQAPRIHRWTILHYSFPKAVWDWLILLVIYTAVFPTPYSAF
 LLSQDESRRGACSYTCSPLTVVDLIVDIMFVVDIVINFRTTYVNTNDEVVSHPRRIAVHYFKGWFLIDM
 VAAIPFDLLIFRTGSEDETTTLIGLLKTARLLRLVRVARKLDRYSEYGA AVL FLLMCTFALIAHWLACIWIY
 AIGNVERPYLEHKIGWLDLGVQLGKRYNGSDPASGPSVQDKYVTALYFTFSSLTSVGFGNVSPNTNSEK
 VFSICVMLIGSLMYASIFGNVSAIIQRLYSGTARYHTQMLRVKEFIRFHQIPNPLRQRLEEFQHAWSYT
 NGIDMNAVLKGFPECLQADICLHLHRALLQHCPAFSGAGKGLRALAVKFKTTHAPPGDTLVHLGDVLS
 LYFISRGSIEILRDDVVVAAILGKNDIFGEPVSLHAQPGKSSADVRLTYCDLHKIQRADLLEVLDMYPAF
 AESFWSKLEVTFLNRDAAGGLHSSPRQAPGSQDHQGFLLSDNQSGSPHELGPQFPKGYSLGPGSQNSM
 GAGPCAPGHPDAAPPLSISDASGLWPELLQEMPPRHSPQSPQEDPDCWPLKLGSRLEQLQAQMNRLSERV
 SSDLSRIQLLQKPMQGHASYILEAPASNDLALVPIASETTSPGPRLPQGLPQAQTPSYGDLDDCSPK
 HRNSSPRPHLAVATDKTLAPSSSEQEPEGLWPPLASPLHPLEVQGLICGPCFSSLPEHLGSPVKQLDFQ
 RHGSDPGFAGSWG

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

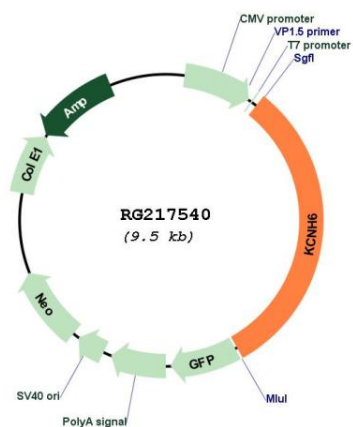


ACCN: NM_030779

ORF Size: 2982 bp

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| 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_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 |
| 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 RG217540