

Product datasheet for MR217120

Kcnh7 (NM_133207) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnh7 (NM_133207) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Kcnh7
Synonyms: 9330137111Rik; erg3; Kv11.3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR217120 representing NM_133207
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCTGTTCGACGGGGCATGTGGACCACAAAACACCTTCTGGGGACCATCATACGGAATTTGAAG
 GGCAGAATAAAAAATTTATCATTGCAAATGCCAGAGTGCAGAAGTGTCTATCATCTACTGCAATGATGG
 CTTCTGTGAGATGACGGTTTCTCCAGGCCAGATGTCATGCAGAAGCCGTGTACCTGTGACTTTTCCAT
 GGGCCTGAGACCAAGAGGCATGATATTGCCAGATTGCCAGGCCGTGCTGGGGTACAGAGGAGGAAAG
 TGGAGGTACCTACTATCACAAGATGGTTCACCTTTATTTGTAACACTCACATAATCCCAGTAAAGAA
 CCAAGAGGGTGTGGCTATGATGTTTCATTAATTTTGTAGTATGTGACAGATGAAGAAAATGCTGCCACT
 CCAGAGAGGGTCAACCCGATATTACCAGTCAAGACTGTAACCCGAAACTTTTTGGGTTCAAATTTCTG
 GACTGAGAGTTCTAACATACAGAAAACAGTCTTGCCACAGGAAGACCCGGATGTGGTAGTTATTGATTC
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 CACCATTAACAAGATCCCACAACACTCTGAATTTCTCAGATGTCAAACAGAAAAGAAGAATACATCC
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CAGGTTCTGATGAGACAACGACACTAATTGGTCTTTTGAAGACTGCACGACTCCTGCGTCTTGTCGCGCT
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Protein Sequence: >MR217120 representing NM_133207
 Red=Cloning site Green=Tags(s)

MPVRRGHVAPQNTFLGTIIRKFEQNKFFIIANARVQNCAIICYNDGFCEMTGFSRPDVMQKPCDFLH
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 PERVNPILPVKTVNRKLFGFKFPLRVLYRQKQSLPQEDPDVVVIDSSKHSDSVAMKHFKSPTKESCSP
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 GFSVHPKNI FRDRHASEDN GRNVKGFNFHKSLLGSTDSDNLNKYSTINKIPQLTLNFSVKTEKNTS
 PPSSDKTIIAPKVKERTHNVTEKVTQVLSLGADVLPEYKLTQPRINKFTILHYSFKA VDWLILLVIY
 TAIFTPYSA AFLNDREEQKRRECGYSCSPLNVVDLIVDIMFIIIDILINFRTTYVNQNEEVVSDPAKIAI
 HYFKGWF LIDMVA AIPFDLLIFGSGSDETTTLIGLLKTARLLRLVRVARKLDRYSEYGA AVLMLLMCIFA
 LIAHWLACI WYAIGNVERPYLTDKIGWLDLGTQIGKRYNDS DSSSGPSIKDKYVTALYFTFSSLTSVGF
 GNVSPNTSEKIF SICVMLIGSLMYASIFGNVSAIIQRLYSGTARYHMQLRVKEFIRFHQIPNPLRQRL
 EEFYQHAWTYTNGIDMNMVLKGFPECLQADICLHLNQTLLQNCKAFRGASKGCLRALAMFKTTHAPPGD
 TLVHCGDVL TAYFLSRGSIEILKDDIVVAILGKNDIFGEMVHL YAKPGKSNADVRALTYCDLHKIQRED
 LLEVLDMPYEFSDHFLT NLELTFNLRHESAKSQSVNDSEGDTGKLRRRRLSFESEGEKDFSKENSANDAD
 DSTDTIRRYQSSKHFEEKSRSSSFISSIDDEQKPLFLGTVDSTPRMVKATRLHGEETMPHSGRIHTEK
 RSHSCRDITDTHSWEREPARAQPEECSPSGLQRAAWGVSETESDLTYGEVEQRLDLLQEQLNRLESQMTT
 DIQAILQLLQKQTTVVPAYSMVTAGAEYQRPI LRLRLRTSHPRASIKTDRSFSPSSQCPEFLDLEKSKLQ
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 GLPGK

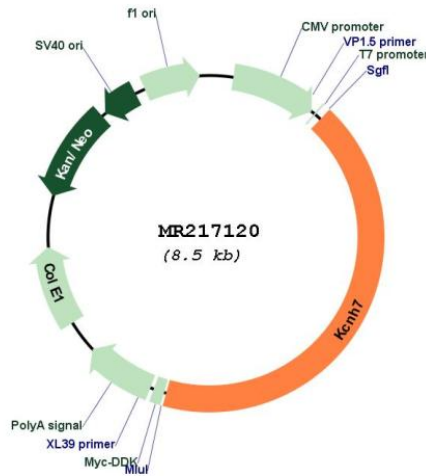
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_133207

ORF Size: 3585 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_133207.2](#), [NP_573470.2](#)

RefSeq Size: 3798 bp

RefSeq ORF: 3588 bp

Locus ID: 170738

UniProt ID: [Q9ER47](#)

Cytogenetics: 2 C1.3

MW: 135.5 kDa

Gene Summary: Pore-forming (alpha) subunit of voltage-gated potassium channel (By similarity). Channel properties may be modulated by cAMP and subunit assembly.[UniProtKB/Swiss-Prot Function]