

Product datasheet for **MC223544**

Kcnh3 (NM_010601) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Kcnh3 (NM_010601) Mouse Untagged Clone
Tag: Tag Free
Symbol: Kcnh3
Synonyms: AU019351; C030044P22Rik; Elk; Elk2; Kv12.2; Melk; Melk2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223544 representing NM_010601
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGCCGGCCATGCGGGGGCTCCTGGCGCCGAGAACACCTTCTGGACACCATCGCCACCCGCTTCGACG
 GGACGCACAGCAACTTCGTGCTGGGCAACGCCAGGTGGCGGGGCTTCCCTGTGGTCTACTGCTCCGA
 TGGCTTCTGTGACCTCACGGGTTTCTCCAGAGCTGAGGTATGCAGCGGGGCTGTGCCTGCTCCTCCTC
 TATGGGCCAGACACCACTGAGCTGGTCCGCAACAGATCCGAAAGGCCCTAGATGAGCACAAAGAATTCA
 AGGCTGAACTGATCCTGTACCGGAAGAGTGGGCTTCCATTCTGGTGTCTCCTGGATGTGATACCTATAAA
 AAATGAGAAGGGGGAGGTGGCCCTTCTCCTGGTCTCTACAAGGACATCAGCGAGACCAAGAACCAGGGA
 GGCCCTGACAACCTGGAAGGAGAGAGGGCGGTGGCCGGCGCCGATATGGTCGGGCGGATCCAAAGGCTTCA
 ATGCCAATCGGAGGCGGAGCCGGGCAGTTCTCTACCACCTCTCTGGCCATCTGCAGAAGCAACCAAGGG
 CAAGCACAAAGTCAATAAGGGAGTGTGGGAGAGAAGCCAAATTTGCCTGAATATAAAGTCGCTGCTATC
 CGGAAGTCAACCTTTATCCTGCTGCACTGTGGGCTCTGAGAGCCACCTGGGATGGCTTCATCCTGCTTG
 CCACACTCTACGTGGCAGTCACTGTGCCATACAGTGTGTGTGAGCACAGCAGCGGAACCCAGTGGCTGC
 CCGTGGCCACCTAGTGTCTGTGACCTGGCTGTGGAGGTCTCTCATCTTAGATATTGTGCTGAATTTT
 CGTACTACATTTGTGTCGAAGTCAAGCCAGGTGGTATTTGCCCAAGTCCATTTGCCTCCTACTAGTCA
 CCACCTGGTTCCTGCTGGATGTCATAGCAGCACTGCCCTTGGACCTACTACATGCCTTCAAGGTCAACGT
 GTACGTTGGGGCTCACCTCCTGAAGACCGTGGCAGTGTGCGCCTGCTGCGCCTGCTGCCAAGACTGGAC
 CGGTAACACAGTACAGCGGGTGTGCTCACCTTGTCTCATGGCTGTCTTCGCCCTGCTCGCTCACTGGG
 TGGCCTGCGTCTGGTTTTACATCGGCCAGCAAGAGATTGAGAGCAGCGAGTCGGAGCTGCCTGAGATCGG
 CTGGCTGCAGGAGCTGGCACGCAGGCTGGAGACCCCTACTACCTGGTGGCCGGAGTCCAGATGGAGGG
 AACAGCTCTGGCCAGAGTGAAAAGTGCAGCAGCAGCAGCAGCAGTGGCAGCGGTGGCGGCAGAGGCA
 GCGAAGCCAATGGGACCGGGCTGGAGTGTGGTGGCCCGTCCCTACGAGCGCCTACATCACCTCCCT
 GTACTTCCGCTCAGCAGTCTACCAGTGTGGGCTTCGGCAACGTGTCCGCTAACACAGACAGGAGAAG
 ATCTTCTCCATCTGCACCATGCTTATCGGAGCTAATGCATGCAGTGGTGGGAAATGTGACGGCCA



TCATCCAGCGCATGTATGCTCGCCGCTTTCTGTACCACAGCCGCACTCGTGACCTGCGAGACTACATCCG
 CATCCACCGCATCCCCAAACCCCTCAAACAACGAATGCTGGAGTACTTCCAAGCCACCTGGGCTGTGAAC
 AATGGCATCGATAACCACTGAGCTGCTGCAGAGCCTCCCGGATGAGCTTCGTGCAGACATCGCCATGCACC
 TGCACAAGGAAGTCTGCAGCTGCCGCTGTTTCGAGGCCGCCAGCCGTGGCTGCCTGCGGGCGCTGTCCCT
 GGCCCTGAGGCCGGCCTTCTGCACGCCGGGCGAGTACCTATTACCAAGGCGATGCTCTCCAGGCCCTC
 TATTTTGTCTGCTCGGGTCCATGGAGGTCTCAAAGTGGCACCGTCTCGCCATTCTAGGGAAGGGTG
 ACCTGATCGGCTGCGAGCTGCCAGCGGGAACAAGTAGTGAAGGCCAATGCAGACGTGAAGGGGTGAC
 ATACTGCGTCTACAGTGTCTGCAGTTGGCTGGGCTGCATGAGAGCCTTGCTCTGTACCCTGAGTTTGC
 CCACGCTTTAGCCGTGGCTCCGAGGGGAGCTCAGCTACAACCTGGGAGCTGGTGGAGTCTCTGCGGAGG
 TGGATACCAGCTCCCTGAGTGGTGAACAACCCCTCATGTCCACACTGGAGGAGAAGGAGACAGATGGGGA
 GCAGGGACACACGGTCTCACCAGCCCAGCAGATGAGCCCTCCAGTCCCCTGCTGTGCGCCGGCTGTACC
 TCCTCCTCCTCAGCCGCAAACTACTCTCCCCACGTGCAACTGCGCCTCGGCCGAGGTTGGGTGGCAGAG
 GCGGCCAAGTAGGGCAGGGTTTTGAAGCCTGAGGCTGGTCTTCTGCTCATCCACGGTCACTTGATGG
 GCTGCAGTACCCCCATGCCATGGAATGTACCCAGACCTGAGCCCCAGGGTCGTAGATGGCATTGAA
 GATGGCTGCAGCTCTGACCAGCCAAGTTCTTTCCGAGTGGGTGAGTCTGGCCAGAATGTAGCAGCA
 GCCCTCCCAGGAACAGAGAGCGGCCTGCTTACAGTCCCCTGGGGCCAGTGAAGCAAGAAACACAGA
 CACGCTGGACAAGCTACGGCAGGCGGTGATGGAGCTGTCTGAACAGGTGCTGCAGATGCGGGAGGGACTG
 CAGTCACTTCGCCAGGCTGTGCAGCTCATCTGGTGCCTCAAGGGGAAGGCCAGTGTCCCGGGGATCAG
 GAGAGGAGCCGTGCCAGCCACCGCCTCTGGGCTCCTACAACCCCTGCGTGTGGACACTGGGGCATCGTC
 CTACTGCTGCAGCCCCAGCAGTTCCGGTTTTGAGTGGGACCTGGCCTCACCCCGTCCAGGGCAACCC
 CCTCCCCTCATGGCGCCTGGCCCTGGGGCCCCCAGCATCTCAGAGTCCCCTTGGCCTCGAGCCACAG
 CTTTATGACCTCACTTCAGACTCGGAGCCCCCTGGCTCTGGAGATCTCTGCTGAGCCAGCAGCACC
 AGCCTCACCCCTCCTTCTGAGGAAGGGGCTAGGACTGGGACCCAGCACCTGTGAGCCAGGCTGAGGCT
 ACCAGTACTGGAGAGCCCTCCGGGGCCAGGAGGCCAGCCTTGCCCTGGGATCCCACAGCCTAGAGA
 TGGTGCTCATTGGCTGCCACGGTCTGGCACGGTCCAGTGGACCCAGGAAGAAGGCACAGGGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_010601

Insert Size:

3288 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_010601.3](#), [NP_034731.3](#)

RefSeq Size: 3583 bp

RefSeq ORF: 3288 bp

Locus ID: 16512

UniProt ID: [Q9WVJ0](#)

Cytogenetics: 15 F1

Gene Summary: The protein encoded by this gene is a voltage-gated potassium channel alpha subunit predominantly expressed in the forebrain. An increase in cognitive function was observed when this gene was knocked out, while deletion of the gene resulted in hippocampal hyperexcitability and epilepsy. [provided by RefSeq, Sep 2015]