OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC223544 representing NM_010601
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGCCATGCGGGGGCTCCTGGCGCCGCAGAACACCTTCCTGGACACCATCGCCACCCGCTTCGACG
GGACGCACAGCAACTTCGTGCTGGGCAACGCCCAGGTGGCGGGGCTCTTCCCTGTGGTCTACTGCTCCGA
TGGCTTCTGTGACCTCACGGGTTTCTCCAGAGCTGAGGTCATGCAGCGGGGCTGTGCCTGCTCCTTCCTC
TATGGGCCAGACACCAGTGAGCTGGTCCGCCAACAGATCCGAAAGGCCCTAGATGAGCACAAAGAATTCA
AGGCTGAACTGATCCTGTACCGGAAGAGTGGGCTTCCATTCTGGTGTCTCCTGGATGTGATACCTATAAA
AAATGAGAAGGGGGAGGTGGCCCTCTTCCTGGTCTCTCACAAGGACATCAGCGAGACCAAGAACCGAGGA
GGCCCTGACAACTGGAAGGAGAGAGGCGGTGGCCGGCGCCGATATGGTCGGGCCGGATCCAAAGGCTTCA
ATGCCAATCGGAGGCGGAGCCGGGCAGTTCTCTACCACCTCTCTGGCCATCTGCAGAAGCAACCCAAGGG
CAAGCACAAGCTCAATAAGGGAGTGTTTGGAGAGAAGCCAAATTTGCCTGAATATAAAGTCGCTGCTATC
CGGAAGTCACCCTTTATCCTGCTGCACTGTGGGGCTCTGAGAGCCACCTGGGATGGCTTCATCCTGCTTG
CCACACTCTACGTGGCAGTCACTGTGCCATACAGTGTGTGTGTGAGCACAGCACGGGAACCCAGTGCTGC
CCGTGGCCCACCTAGTGTCTGTGACCTGGCTGTGGAGGTCCTCTTCATCTTAGATATTGTGCTGAATTTT
CGTACTACATTTGTGTCCAAGTCAGGCCAGGTGGTATTTGCCCCAAAGTCCATTTGCCTCCACTACGTCA
CCACCTGGTTCCTGCTGGATGTCATAGCAGCACTGCCCTTTGACCTACTACATGCCTTCAAGGTCAACGT
GTACGTTGGGGCTCACCTCCTGAAGACCGTGCGACTGCTGCGCCTGCTGCGCCTGCTGCCAAGACTGGAC
CGGTACTCACAGTACAGCGCGGTTGTGCTCACCTTGCTCATGGCTGTCTTCGCCCTGCTCGCTCACTGGG
TGGCCTGCGTCTGGTTTTACATCGGCCAGCAAGAGATTGAGAGCAGCGAGTCGGAGCTGCCTGAGATCGG
CTGGCTGCAGGAGCTGGCACGCAGGCTGGAGACCCCCTACTACCTGGTGAGCCGGAGTCCAGATGGAGGG
AACAGCTCTGGCCAGAGTGAAAACTGCAGCAGCAGCAGCAGCAGCAGTGGCAGCGGTGGCGGCAGAGGCA
GCGAAGCCAATGGGACCGGGCTGGAGCTGCTGGGTGGCCCGTCCCTACGCAGCGCCTACATCACCTCCCT
GTACTTCGCGCTCAGCAGTCTCACCAGTGTGGGCTTCGGCAACGTGTCCGCTAACACAGACACGGAGAAG
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ATCTTCTCCATCTGCACCATGCTTATCGGAGCTCTAATGCATGCAGTGGTGTTTGGGAATGTGACGGCCA
TCATCCAGCGCATGTATGCTCGCCGCTTTCTGTACCACAGCCGCACTCGTGACCTGCGAGACTACATCCG
CATCCACCGCATCCCCAAACCCCTCAAACAACGAATGCTGGAGTACTTCCAAGCCACCTGGGCTGTGAAC
AATGGCATCGATACCACTGAGCTGCTGCAGAGCCTCCCGGATGAGCTTCGTGCAGACATCGCCATGCACC
TGCACAAGGAAGTCCTGCAGCTGCCGCTGTTCGAGGCCGCCAGCCGTGGCTGCCTGCGGGCGCTGTCCCT
GGCCCTGAGGCCGGCCTTCTGCACGCCGGGCGAGTACCTCATTCACCAAGGCGATGCTCTCCAGGCCCTC
TATTTTGTCTGCTCGGGTTCCATGGAGGTCCTCAAAGGTGGCACCGTGCTCGCCATTCTAGGGAAGGGTG
ACCTGATCGGCTGCGAGCTGCCCCAGCGGGAACAAGTAGTGAAGGCCAATGCAGACGTGAAGGGGCTGAC
ATACTGCGTCCTACAGTGTCTGCAGTTGGCTGGGCTGCATGAGAGCCTTGCTCTGTACCCTGAGTTTGCC
CCACGCTTTAGCCGTGGCCTCCGAGGGGAGCTCAGCTACAACCTGGGAGCTGGTGGAGTCTCTGCGGAGG
TGGATACCAGCTCCCTGAGTGGTGACAACACCCTCATGTCCACACTGGAGGAGAAGGAGACAGATGGGGA
GCAGGGACACACGGTCTCACCAGCCCCAGCAGATGAGCCCTCCAGTCCCCTGCTGTCGCCCGGCTGTACC
TCCTCCTCCTCAGCCGCCAAACTACTCTCCCCACGTCGAACTGCGCCTCGGCCGAGGTTGGGTGGCAGAG
GGCGGCCAAGTAGGGCAGGGGTTTTGAAGCCTGAGGCTGGTCCTTCTGCTCATCCACGGTCACTTGATGG
GCTGCAGCTACCCCCCATGCCATGGAATGTACCCCCAGACCTGAGCCCCAGGGTCGTAGATGGCATTGAA
GATGGCTGCAGCTCTGACCAGCCCAAGTTCTCTTTCCGAGTGGGTCAGTCTGGCCCAGAATGTAGCAGCA
GCCCCTCCCCAGGAACAGAGAGCGGCCTGCTTACAGTCCCCTTGGGGCCCAGTGAAGCAAGAAACACAGA
CACGCTGGACAAGCTACGGCAGGCGGTGATGGAGCTGTCTGAACAGGTGCTGCAGATGCGGGAGGGACTG
CAGTCACTTCGCCAGGCTGTGCAGCTCATCCTGGTGCCCCAAGGGGAAGGCCAGTGTCCCCGGGGATCAG
GAGAGGAGCCGTGCCCAGCCACCGCCTCTGGGCTCCTACAACCCCTGCGTGTGGACACTGGGGCATCGTC
CTACTGCCTGCAGCCCCCAGCAGGTTCGGTTTTGAGTGGGACCTGGCCTCACCCCCGTCCAGGGCAACCC
CCTCCCCTCATGGCGCCCTGGCCCTGGGGCCCCCCAGCATCTCAGAGCTCCCCTTGGCCTCGAGCCACAG
CTTTATGGACCTCCACTTCAGACTCGGAGCCCCCTGGCTCTGGAGATCTCTGCTCTGAGCCCAGCACACC
AGCCTCACCCCCTCCTTCTGAGGAAGGGGCTAGGACTGGGACCCCAGCACCTGTGAGCCAGGCTGAGGCT
ACCAGTACTGGAGAGCCCCCTCCGGGGCCAGGAGGCCGAGCCTTGCCCTGGGATCCCCACAGCCTAGAGA
TGGTGCTCATTGGCTGCCACGGTCCTGGCACGGTCCAGTGGACCCAGGAAGAAGGCACAGGGGTCTGA

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

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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]

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