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Product datasheet for SC303951

KCNH3 (NM_012284) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNH3 (NM_012284) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNH3
Synonyms:	BEC1; ELK2; Kv12.2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_012284 edited
ATGCCGGCCATGCGGGGCCTCCTGGCGCCGCAGAACACCTTCCTGGACACCATCGCTACG
CGCTTCGACGGCACGCACAGTAACTTCGTGCTGGGCAACGCCCAGGTGGCGGGGCTCTTC
CCCGTGGTCTACTGCTCTGATGGCTTCTGTGACCTCACGGGCTTCTCCCGGGCTGAGGTC
ATGCAGCGGGGCTGTGCCTGCTCCTTCCTTTATGGGCCAGACACCAGTGAGCTCGTCCGC
CAACAGATCCGCAAGGCCCTGGACGAGCACAAGGAGTTCAAGGCTGAGCTGATCCTGTAC
CGGAAGAGCGGGCTCCCGTTCTGGTGTCTCCTGGATGTGATACCCATAAAGAATGAGAAA
GGGGAGGTGGCTCTCTTCCTAGTCTCTCACAAGGACATCAGCGAAACCAAGAACCGAGGG
GGCCCCGACAGATGGAAGGAGACAGGTGGTGGCCGGCGCCGATATGGCCGGGCACGATCC
AAAGGCTTCAATGCCAACCGGCGGCGGAGCCGGGCCGTGCTCTACCACCTGTCCGGGCAC
CTGCAGAAGCAGCCCAAGGGCAAGCACAAGCTCAATAAGGGGGTGTTTGGGGAGAAACCA
AACTTGCCTGAGTACAAAGTAGCCGCCATCCGGAAGTCGCCCTTCATCCTGTTGCACTGT
GGGGCACTGAGAGCCACCTGGGATGGCTTCATCCTGCTCGCCACACTCTATGTGGCTGTC
ACTGTGCCCTACAGCGTGTGTGTGAGCACAGCACGGGAGCCCAGTGCCGCCCGCGGCCCG
CCCAGCGTCTGTGACCTGGCCGTGGAGGTCCTCTTCATCCTTGACATTGTGCTGAATTTC
CGTACCACATTCGTGTCCAAGTCGGGCCAGGTGGTGTTTGCCCCAAAGTCCATTTGCCTC
CACTACGTCACCACCTGGTTCCTGCTGGATGTCATCGCAGCGCTGCCCTTTGACCTGCTA
CATGCCTTCAAGGTCAACGTGTACTTCGGGGCCCATCTGCTGAAGACGGTGCGCCTGCTG
CGCCTGCTGCGCCTGCTTCCGCGGCTGGACCGGTACTCGCAGTACAGCGCCGTGGTGCTG
ACACTGCTCATGGCCGTGTTCGCCCTGCTCGCGCACTGGGTCGCCTGCGTCTGGTTTTAC
ATTGGCCAGCGGGAGATCGAGAGCAGCGAATCCGAGCTGCCTGAGATTGGCTGGCTGCAG
GAGCTGGCCCGCCGACTGGAGACTCCCTACTACCTGGTGGGCCGGAGGCCAGCTGGAGGG
AACAGCTCCGGCCAGAGTGACAACTGCAGCAGCAGCAGCGAGGCCAACGGGACGGGGCTG
GAGCTGCTGGGCGGCCCGTCGCTGCGCAGCGCCTACATCACCTCCCTCTACTTCGCACTC
AGCAGCCTCACCAGCGTGGGCTTCGGCAACGTGTCCGCCAACACGGACACCGAGAAGATC
TTCTCCATCTGCACCATGCTCATCGGCGCCCTGATGCACGCGGTGGTGTTTGGGAACGTG
ACGGCCATCATCCAGCGCATGTACGCCCGCCGCTTTCTGTACCACAGCCGCACGCGCGAC

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CTGCGCGACTACATCCGCATCCACCGTATCCCCAAGCCCCTCAAGCAGCGCATGCTGGAG
TACTTCCAGGCCACCTGGGCGGTGAACAATGGCATCGACACCACCGAGCTGCTGCAGAGC
CTCCCTGACGAGCTGCGCGCAGACATCGCCATGCACCTGCACAAGGAGGTCCTGCAGCTG
CCACTGTTTGAGGCGGCCAGCCGCGGCTGCCTGCGGGCACTGTCTCTGGCCCTGCGGCCC
GCCTTCTGCACGCCGGGCGAGTACCTCATCCACCAAGGCGATGCCCTGCAGGCCCTCTAC
TTTGTCTGCTCTGGCTCCATGGAGGTGCTCAAGGGTGGCACCGTGCTCGCCATCCTAGGG
AAGGGCGACCTGATCGGCTGTGAGCTGCCCCGGCGGGAGCAGGTGGTAAAGGCCAATGCC
GACGTGAAGGGGCTGACGTACTGCGTCCTGCAGTGTCTGCAGCTGGCTGGCCTGCACGAC
AGCCTTGCGCTGTACCCCGAGTTTGCCCCGCGCTTCAGTCGTGGCCTCCGAGGGGAGCTC
AGCTACAACCTGGGTGCTGGGGGAGGCTCTGCAGAGGTGGACACCAGCTCCCTGAGCGGC
GACAATACCCTTATGTCCACGCTGGAGGAGAAGGAGACAGATGGGGAGCAGGGCCCCACG
GTCTCCCCAGCCCCAGCTGATGAGCCCTCCAGCCCCCTGCTGTCCCCTGGCTGCACCTCC
TCATCCTCAGCTGCCAAGCTGCTATCCCCACGTCGAACAGCACCCCGGCCTCGTCTAGGT
GGCAGAGGGAGGCCAGGCAGGGCAGGGGCTTTGAAGGCTGAGGCTGGCCCCTCTGCTCCC
CCACGGGCCCTAGAGGGGCTACGGCTGCCCCCCATGCCATGGAATGTGCCCCCAGATCTG
AGCCCCAGGGTAGTAGATGGCATTGAAGACGGCTGTGGCTCGGACCAGCCCAAGTTCTCT
TTCCGCGTGGGCCAGTCTGGCCCGGAATGTAGCAGCAGCCCCTCCCCTGGACCAGAGAGC
GGCCTGCTCACTGTTCCCCATGGGCCCAGCGAGGCAAGGAACACAGACACACTGGACAAG
CTTCGGCAGGCGGTGACAGAGCTGTCAGAGCAGGTGCTGCAGATGCGGGAAGGACTGCAG
TCACTTCGCCAGGCTGTGCAGCTTGTCCTGGCGCCCCACAGGGAGGGTCCGTGCCCTCGG
GCATCGGGAGAGGGGCCGTGCCCAGCCAGCACCTCCGGGCTTCTGCAGCCTCTGTGTGTG
GACACTGGGGCATCCTCCTACTGCCTGCAGCCCCCAGCTGGCTCTGTCTTGAGTGGGACT
TGGCCCCACCCTCGTCCGGGGCCTCCTCCCCTCATGGCACCCTGGCCCTGGGGTCCCCCA
GCGTCTCAGAGCTCCCCCTGGCCTCGAGCCACAGCTTTCTGGACCTCCACCTCAGACTCA
GAGCCCCCTGCCTCAGGAGACCTCTGCTCTGAGCCCAGCACCCCTGCCTCCCCTCCTCCT
TCTGAGGAAGGGGCTAGGACTGGGCCCGCAGAGCCTGTGAGCCAGGCTGAGGCTACCAGC
ACTGGAGAGCCCCCACCAGGGTCAGGGGGCCTGGCCTTGCCCTGGGACCCCCACAGCCTG
GAGATGGTGCTTATTGGCTGCCATGGCTCTGGCACAGTCCAGTGGACCCAGGAAGAAGGC
ACAGGGGTCTGA

Restriction Sites: Please inquire

ACCN: NM_012284

Insert Size: 3300 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_012284.1, NP_036416.1
RefSeq Size:	3853 bp
RefSeq ORF:	3252 bp
Locus ID:	23416
UniProt ID:	Q9ULD8
Cytogenetics:	12q13.12
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	The protein encoded by this gene is a voltage-gated potassium channel alpha subunit predominantly expressed in the forebrain. Studies in mice have found that cognitive function increases when this gene is knocked out. In humans, the encoded protein has been shown to be capable of binding glycoprotein 120 of the human immunodeficiency virus type 1 (HIV-1) envelope. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2015] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).