

Product datasheet for **RR200598**

Kcnh4 (NM_053630) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh4 (NM_053630) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kcnh4
Synonyms:	Bec2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR200598 representing NM_053630 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGTCATGAAGGGTTGCTGGCCCCGAAAACACCTTTCTGGACACCATCGCCACTCGCTTTGACG
GCACGCACAGCACTTTCTTCTGGCCAATGCCAGGGCCACGGGTTTTCCCATCGTCTACTGCTCTGA
CGGCTTCTGTGAGCTCACAGGCTACGGCCGACCGAGGTCATGCAGAAAACCTGTAGCTGCCGGTTCCTC
TATGGCCAGAGACCAGTGAGCCGGCCTTGCAACGGTTACAAAAAGCCCTGGAGGGCCACCAAGAACACA
GAGCTGAAATCTGCTTTACCGAAAGGATGGCTCGGCCTTTTGGTGTCTTCTGGACATGATGCCATCAA
AAATGAGCTGGGGGAGGTGGTGCTTTCTATTTCTTTAAGGACATCTCTCAGAGTGGAGGCCAGGA
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CAAGACTTAGGTCCACGAGGAGGCAGAACCGGACAGTTCTACACCGTTGACTGGCCACTTTGGTCGCCG
GGACCAGGAAGCGTGAAAGCCAATAGTAACGTGTTTGGCCAAAGCCATCAGTGCCTGAGTACAAAGTG
GCCTCCGTGGGGGCTCCCGCTGCCTGCTCCTCACTACAGCATCCCCAAGGCTGTCTGGACGGTCTCA
TCCTTCTCGTACGTTCTACGTGCGGTCACCGTCCCTTACAACGTCTGCTTCGTTGATGACGACAC
CCCCATCAGTCCCGACACACCCTTGTAGTGACATCGCTGTGGAGATGCTTTCATCCTGGACATCATC
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TCGAGTACTTCCAGACTACATGGGCCGTCAACAGCGGCATCGATGCCAACGAGTTACTGCGTGACTTCCC
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 TCCTGAAGCACAGCTTCCAGTCTGGGTGAGACACATTCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200598 representing NM_053630
 Red=Cloning site Green=Tags(s)

MPVMKGLLAPQNTFLDTIATRFDGTHSNFLLANAQGRGFPPIVYCSDFCELTGYGRTEVMQKTCSCRFL
 YGPETSEPALQRLQKALEGHQEHRAEICFYRKDGSFAFWCLLDMMPIKNELGEVVLFLFSFKDISQSGGPG
 LGSPGIHGDNHNSLGRRGASSRLRSTRRQNRVTLHRLTGHFGRRDQGSVKANSNVFEPKPSVPEYKV
 ASVGGSRCLLLHYSIPKAVWDGLILLATFYVAVTPYNVCFAGDDDPITSRHTLVSDIAVEMFLILDII
 LNFRTTYVSQSQVVSAPRSIGLHYLATWFFVDLIAALPFDLLYVFNITVTSLVHLLKTVRLLRLLRLLQ
 KLERYSQCSAVVLTLLMSVFALLAHWMAVWYVIGRREMEANDPLLWDIGWLHELKRLPEEYVNGSAGG
 PSRRSAYIAALYFTLSSLTSVGFNVCAANTDAEKIFSICTMLIGALMHAVVFGNVTAI IQRMYSRRSLYH
 SRMKDLKDFIRVHRLPRPLKQRMLEYFQTTWAVNSGIDANELLRDFDELADIAMHLNREILQLPLFGA
 ASRGCLRALSLHIKTSFCAPGEFLLRRGDALQAHYYVCSGSLEVL RDNTVLAAILGKGD LIGADIPELGQE
 PGAGAGCVLKTSADV KALTYCGLQQLSSRGLAEVLRLYPEYVAAFRAGLPRDLTFNL RQGSENNGLGRFS
 RSPRLSQARSDTLGSSSDKTLPSITETEGMEPGAGSKPRRPLLLPNLSPARPRGSLVSLGEELEPPFSA
 LVSSPSLSPTSPALAGRSSPSLHGPPRGSAAWKPPQLLTPPLGTFGPPDLSPRIVDGIEDSSNTAEAP
 TFRFSKRPEPTRRSQAPL SGPRLSRELATEAAEEVKEKVCRLNQEISRLNQEVSQLSREL RQVMGLLQA
 RLGPPSHPPDSTWLPDLPCPHQRPPCISPHMSGPPPGLQNTTLAVVHCPASVGTVEIGATPSELRSSMVP
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

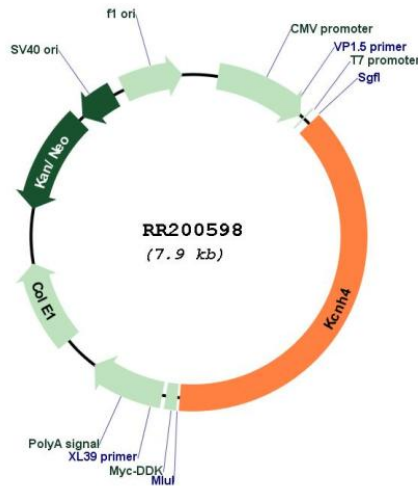
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053630

ORF Size: 3051 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:	<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:	<u>NM_053630.1</u> , <u>NP_446082.1</u>
RefSeq Size:	3736 bp
RefSeq ORF:	3054 bp
Locus ID:	114032
UniProt ID:	<u>Q9R1T9</u>
Cytogenetics:	10q31
MW:	111.4 kDa
Gene Summary:	involved in cellular excitability of neurons [RGD, Feb 2006]