

## Product datasheet for RN200598

### Kcnh4 (NM\_053630) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kcnh4 (NM_053630) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcnh4
Synonyms:	Bec2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN200598 representing NM_053630 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCCGGTCATGAAGGGTGTGGCCCCGAAAACACCTTTCTGGACACCATCGCCACTCGCTTTGACG  
GCACGCACAGCACTTTCTTCTGGCCAATGCCAGGGCCACGGGTTTTCCCATCGTCTACTGCTCTGA  
CGGCTTCTGTGAGCTCACAGGCTACGGCCGACCGAGGTCATGCAGAAAACCTGTAGCTGCCGGTCTCT  
TATGGCCAGAGACCAGTGAGCCGGCCTTGCAACGGTTACAAAAAGCCCTGGAGGGCCACCAAGAACACA  
GAGCTGAAATCTGCTTTACCGAAAGGATGGCTCGGCCTTTTGGTGTCTTCTGGACATGATGCCATCAA  
AAATGAGCTGGGGGAGGTGGTGCTTTCTATTTCTTTAAGGACATCTCTCAGAGTGGAGGCCAGGA  
CTTGGCTCACCAGGGATCCATGGGGACAATAATAATCATGAAAACCTCCCTGGGAGGAGAGGAGCTAGCT  
CAAGACTTAGGTCCACGAGGAGGCAGAACCGGACAGTTCTACACCGTTGACTGGCCACTTTGGTCGCCG  
GGACCAGGAAGCGTGAAAGCCAATAGTAACGTGTTTGGCCAAAGCCATCAGTGCCTGAGTACAAAGTG  
GCCTCCGTGGGGGCTCCCGCTGCCTGCTCCTCACTACAGCATCCCAAGGCTGTCTGGACGGTCTCA  
TCCTTCTCGTACGTTCTACGTCGCGGTACCGTCCCTTACAACGTCTGCTTCGCTGGTATGACGACAC  
CCCCATCAGTCCCGACACACCCTTGTAGTGACATCGCTGGGAGATGCTCTTATCCTGGACATCATC  
TTGAACTTCCGCACCACCTACGTGTCCAGTCCGGCCAGGTGGTTTCTGCTCCTCGGTCCATTGGCCTCC  
ACTACCTGGCCACCTGGTTCTTCTGTTGACCTCATTGCTGCTTTGCCCTTTGACCTGCTGTATGCTTCAA  
CATCACTGTGACCTCGTGGTACATCTGCTGAAAACCGTCCGGCTCCTGCGGTTGCTGAGGCTGCTGCAG  
AAGCTAGAGCGGTACTCTCAGTGCAGCGCGGTGGTGTCTACGCTGCTCATGTCCGCTTTGCACTCCTTG  
CCCCTGGATGGCTGCTGCTGATGTCATCGGGCGCCGGGAGATGGAGCCAATGACCCGCTGCTCTG  
GGACATTGGTTGGTTGCATGAGCTGGTAAGCGGCTGGAGGAGCCTTATGTCAATGGCTCGGCCGGTGA  
CCATCTCGGCGCAGTGCCTACATCGCCGCGCTGTACTTACGCTGAGCAGCCTCACCAGTGTAGGCTTCG  
GCAACGTTTGTGCAACACTGACGCTGAGAAGATCTTCTCCATCTGCACGATGCTCATAGGCGCGCTGAT  
GCACGCGGTGGTGTGGGAATGTCACAGCCATCATCCAGCGCATGTACTCCCGACGCTCGCTCTACCAC  
AGCCGCATGAAGGATCTCAAGGACTTCCAGTGCATCGTCTGCCCGCCCACTCAAGCAGCGCATGC



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TCGAGTACTTCCAGACTACATGGGCCGTCAACAGCGGCATCGATGCCAACGAGTTACTGCGTGACTTCCC  
 GGATGAGCTGCGAGCTGACATCGCCATGCACCTGAATCGGGAGATCCTGCAGCTGCCTTTGTTGGAGCA  
 GCAAGCAGGGGCTGCCTTCGTGCCCTCTCCCTGCACATCAAGACCTCATTTTGTGCTCCTGGGGAGTTCC  
 TGCTACGCCGTGGGGATGCCCTGCAGGCACACTACTATGTCTGCTCTGGCTCTCTTGAGGTGCTCCGAGA  
 CAACACGGTGTGGCCATCCTTGGAAAGGGGACTTGATTGGGGCAGACATCCCTGAGTTGGGGCAGGAG  
 CCTGGGGCAGGGCAGGCTGCGTGTGAAGACCAGCGCTGATGTGAAAGCACTGACTTACTGCGCCTGC  
 AGCAGCTGAGCAGCCGAGGGCTGGCCGAGTCTTCGGTTGTATCCGGAATATGTGGCTGCCTTCAGGGC  
 TGGCCTACCCCGGACCTAACCTTCAACCTGCGCCAAGGCTCTGAAAACAATGGCCTCGGCCGCTTCTCA  
 CGTTCTCCTCGACTCTCCAGGCACGCTCCGACACTCTTGGTTCTCCTCAGACAAGACTCTGCCATCCA  
 TCACAGAAACCGAGGGTGGCATGGAGCCTGGGGCTGGTTCCAAGCCCCGTCGGCCCTCCTGCTGCCAA  
 CCTCAGTCCAGCAGACCTCGGGGTCCCTGGTCAGCCTTTTGGGCGAAGAGCTGCCCCATTCTCAGCC  
 CTTGTCTCCTCCTTCCCTGTCCCAACTCCTTCCCCTGCCCTGGCTGGCCGGGTTCAAGTCCCTCCC  
 TGCACGGGCCCCCAGGGGCTCTGCTGCCTGGAAGCCCCCAGCTCCTACCCCCCACTGGGAACATT  
 TGGACCTCGGACCTCAGTCCCCGATCGTGGATGGCATTGAGGACTCCAGTAACACAGCTGAGGCTCCT  
 ACATTCGGTTTCAGCAAGAGGCCGAGCCACCAGAACCCTTACAGGCTCCCTTTTCAGGCCCTAGGC  
 TCAGCCGGGAACCTGGCCACAGAGGCAGCAGAGGAGGTGAAGGAAAAGGTCTGCAGGCTGAACCAAGAGAT  
 TTCCAGACTCAACCAGGAAGTGTCTCAGCTGAGCCGGGAGCTTCGCCAAGTATGGGCTCTTACAGGCC  
 AGGCTGGGTCCCCAAGTCACCCACCTGACTCCACTTGGCTCCCAGACCTTCTTGTCCCATCAGAGAC  
 CGCCATGCATCTCTCTCATATGTCTGGACCTCCACCTGGTCTCCAGAATACTACACTTGTGTAGTCCA  
 CTGTCCAGCCAGTGTGGGACAGTGGAGATAGGGGCCACCCCTCAGAGCTGAGGTCTTCCATGGTGCCA  
 CCCTTTCCTCAGAACCTGATCCTTGGACCTCTCCAGTGCCAGAGGCTTCTCCTCTGACCCCAAGCC  
 TCCTGAAGCACAGCTTCCAGTCTGGGTGAGACACATTCCACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_053630
- Insert Size:** 3054 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\\_053630.1](#), [NP\\_446082.1](#)
- RefSeq Size:** 3736 bp
- RefSeq ORF:** 3054 bp

Locus ID: 114032  
UniProt ID: [Q9R1T9](#)  
Cytogenetics: 10q31  
Gene Summary: involved in cellular excitability of neurons [RGD, Feb 2006]