

## Product datasheet for **RN209809**

### **Kcnh2 (NM\_053949) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Kcnh2 (NM\_053949) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Kcnh2  
**Synonyms:** ERG1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN209809 representing NM\_053949  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCGGTGGGAGGGGCCACGTGCGCCGCAGAACACCTTCTCGACACCATCATCCGAAGTTTGAGG  
GCCAGAGCCGCAAGTTCATCATCGCTAACGCTCGTGTAGAGAAGTGCAGCCGTCATCTACTGCAACGACGG  
CTTCTGCGAACTGTGCGGCTACTCTCGGGCCGAGGTGATGCAGCGGCCCTGCACCTGCGATTTCTGCAT  
GGGCCCGCAGCAGCGCCGTGCCGCCGCGCAGATCGCGCAGGCCCTGCTGGGCGCGGAGGAGCGCAAAG  
TGGAGATCGCCTTCTACCGAAAAGATGGGAGCTGCTTCTGTGTTTGGTGGATGTGGTGCCTGTAAGAA  
TGAGGATGGGGCTGTCATCATGTTTATCCTCAACTTTGAAGTGGTGGTGGAGAAGGACATGGTAGGGTCG  
CCAGCTCATGACACCAATCACAGGGGGCCCTCTACCAGCTGGCTAGCTTCTGGCCGGGCAAGACCTTCC  
GCCTGAAGCTGCCTGCCTTGTGGCACTGACTGCCAGGGAATCGCCATGCGGACAGGAAGCAGGGGCGAG  
TCCTGGAGCCCCGGGGCAGTGGTGGTGGATGTGGACCTGACGCCGCGCAGCAGCCAGCAGTGAAGTCCCTG  
GCCTTGGATGAGGTTTCTGCCATGGACAACCATGTGGCTGGACTTGGCCCTGCAGAAGAGAGGGCGAGCAC  
TGGTGGGCCAGCGTCTGCTTACCGGTAGCCAGCATCCCAGGCCCTCACCCGTCCTCGAGCTCAGAG  
CCTTAACCCGTGACGCCTCTGGTTCCAGCTGCAGTCTGGCCGAACACGCTCACGGGAGAGCTGCGCTAGT  
GTGCGCCGGGCGTCTTCCGAGATGACATCGAGGCAATGCGGGCTGGGGCGCTGCCCTCCCGCCCCGAC  
ATGCTAGTACAGGGGCCATGCACCCCTGCGCAGTGGCCTGCTTAACTCCACCTCAGACTCTGACCTCGT  
GCGCTACCGAACCATTAGCAAGATACCCCAAATCACCCCTCAACTTTGTGGACCTCAAAGGCGACCCCTTTC  
CTGGCTTACCCACCAAGTACCGGGAAATCATAGCACCAGATAAAAGAGCGGACCCACAATGTCACCG  
AGAAGGTACCCAGTCTGTCTTGGGAGCCGATGTGCTTCTGAATATAAGCTGCAGGCCCAAGAAT  
ACACCGCTGGACCATCTACACTACAGCCCTTCAAGGCAGTGTGGGACTGGCTCATTCTGCTGCTGGTC  
ATCTACACAGCCGTCTTACACCGTACTCGGCTGCCTTCTGCTGAAGGAGACTGAAGATGGGTCCCAAG  
CCCTGACTGCGCTATGCCTGCCAGCCTCTGGCTGTAGTGGACCTCCTGTTGGACATCATGTTTATTGT  
GGACATCCTTATCAATTTCCGCACCACCTACGTTAACGCCAATGAAGAGGTGGTCAAGCATCCTGGCCGC  
ATCGCTGTGCACTACTTCAAGGGCTGGTCTCTCATCGACATGGTGGCTGCCATCCCTTCGACCTGCTCA



TCTTTGGCTCTGGCTCTGAGGAGCTCATCGGACTGCTGAAAAGTCCAGGCTGCTGCGGCTGGTGCAGT  
 GGCTCGGAAGCTGGACCGCTACTCGGAGTATGGGGCAGCAGTGTCTTTCCTGCTCATGTGCACCTTCGCG  
 CTCATTGCACACTGGTTGGCCTGCATCTGGTACGCCATCGGCAACATGGAACAGCCTCACATGGACTCAC  
 ACATTGGCTGGCTGCACAACCTGGGGCAGCAGATCGGCAAGCCCTACAACAGCAGCGGCTGGGAGGCC  
 CTCCATCAAGGACAAGTACGTACAGCGCTCTACTTCACCTTCAGCAGCCTCACCAGCGTGGGCTTTGGC  
 AATGTCTCTCCCAACACCAACTCAGAAAAGATCTTCTCCATCTGTGTATGCTCATTGGCTCCCTCATGT  
 ATGCCAGCATCTTCGGCAACGTGTCCGCCATCATCCAGCGGCTGTACTCGGGCACGGCCCGCTACCACAC  
 ACAGATGCTCCGGGTGCGGGAGTTTATCCGCTTCCATCAGATTCCAACCCGCTACGCCAGCGCCTCGAG  
 GAGTACTTCCAGCAGCTTGGTCTACACCAACGGCATCGACATGAATGCGGTGCTGAAGGGTTTCCCCG  
 AGTGCCTGCAGGCTGACATCTGCCTACATCTAAACCGCTCACTGCTGCAGCACTGCAAACATTCCGAGG  
 GGCCACTAAAGGCTGCCTGAGGGCCCTGGCCATGAAATTCAGACCACACATGCGCCACCAGGGGACACG  
 CTGGTGCACGCTGGGACCTGCTTACTGCCCTCTACTTCATCTCCAGGGGCTCCATCGAGATCCTGCGGG  
 GTGATGTCGTGGTGGCCATCTTGGGAAGAACGACATCTTTGGAGAGCCTCTGAACCTGTATGCACGTCC  
 TGGGAAGTCCAATGGGGATGTGAGGGCCCTCACTTACTGTGACCTGCACAAGATCCATCGAGACGATCTG  
 CTGGAGGTGTTGGACATGTACCCGAGTCTCAGACCCTTTTGGTCTAGCCTGGAGATCACCTTCAACC  
 TTGAGATACCAACATGATTCTGGCTCCCCAGCAGTGCGGAAGTAGAGAGCGGCTTCAACAGGCAGCG  
 AAAGCGCAAACCTGTCTTCCGCAGGCGTACTGACAAGGACACAGAGCAGCCAGGGGAGGTGTACGCCCTG  
 GGGCAAGGCCCTGCCGAGTTGGGCCAGGGCCGAGTTGCCGGGGACAGCCGGGAGGGCCATGGGGGGAGA  
 GCCCATCCAGTGGCCCTTCCAGCCCAGAGAGCAGTGAAGATGAGGGCCAGGTGCGAGCTCCAGCCCCCT  
 CCGCTGGTGCCCTTCTCCAGCCCCAGGCTCCCGGAGACTCCCCAGGTGGGGAGCCTTTGACAGAGGAT  
 GGAGAGAAAAGCAGTGACACTTGAATCCCCTGTCAAGTGCCTTCTCTGGGGTGTCCAATATTTTCAGCT  
 TCTGGGGGACAGTCGGGGGCGCCAGTACCAGGAGCTGCCTCGATGCCCTGCCCGGCCCTAGCCTCCT  
 CAACATCCCCTTGTCTAGCCCTGGCCGGCTTCCCGGGTGCAGTGGAGAGCAGGCTGGATGCACCTCCAG  
 AGACAGCTGAACAGGCTGGAACCCCGGCTAAGTGCAGACATGGCCACTGTCTACAGCTGCTACAGAGGC  
 AAATGACCCTGGTCCCTCCTGCCTACAGTGTGTGACCACCCCTGGGCCTGGCCCACTTCCACGTCCCC  
 TTTGTTGCTGTGCGCCCGTCCCCTCTCACCTGGACTCGCTTTCTCAGTTTCCCAGTTCTGTGGCG  
 TTTGAGGAGCTTCTGCAGGAGCCCCAGAGCTCCCCAAGATGGCCCACTCGACGCCTCTCCCTGCCGG  
 GCCAGTGGGGGCCCTCACCTCCAGCCCTGCACAGACATGGCTCAGATCCAGGCAGT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_053949
- Insert Size:** 3492 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\\_053949.1](#), [NP\\_446401.1](#)

**RefSeq Size:** 3889 bp

**RefSeq ORF:** 3492 bp

**Locus ID:** 117018

**UniProt ID:** [O08962](#)

**Cytogenetics:** 4q11

**Gene Summary:** voltage gated potassium channel pore forming subunit [RGD, Feb 2006]