

## Product datasheet for **RN216861**

### **Kcna6 (NM\_023954) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kcna6 (NM_023954) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Kcna6
Synonyms:	Kv1.6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>NM\_023954 ORF sequence, RN216861 may differ due to SNPs.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGATCGGAGAAATCCCTGACGCTGGCGGCCCGGGGAGGTCCGTGGCCGGAGGGGGAGCAACAG
GATGCGGGTGAGTTCAGGAGGCCGAGGGCGCGGCTGCTGTAGTAGTGAGAGGCTGGTGATCAAC
ATCTCTGGGCTGCGCTACGAGACGCAGCTGCGCACCTTGTGCTGTTCCCTGACACGCTGCTAGGAGAC
CCTGGCCGCAGAGTCCGCTTCTTTGACCCCTTGAGGAATGAGTACTTCTTTGACCACAACCGACCCAGC
TTCGACGCTATCCTTTACTACCAGTCGGGGGTGCGCTGCGCAGGCCGGTTAACGTGCCCTTGAC
ATCTTTATGGAAGAGATTCGCTTCTATCAGTTGGGAGATGAAGCCCTGGCGGCTTCCGGGAGGATGAG
GGTTGCCTGCCGAAGGTGGTGAGGATGAGAAGCCACTCCCTCCAGCCTTCCAGCGACAGGTCTGG
CTCCTCTTTGAGTATCCGGAGAGTCTGGGCCCGCCGAGGCATTGCCATCGTCTCAGTGTGGTCATC
CTCATCTCCATTGCATCTTTGCTGGAGACCTTGCTCAGTCCGTGCAGATGGGCGCGGTGGAAGC
AACGAGGGGAGTGGGACCGCATGTCCCGGCCCTCCAGGGGAGCCACGAGGAGGAAGATGAAGACGAG
GATTCCTATGCATTTCTGGTAGCATTCCCTCTGGGGGTTGGGGACCGAGGAACCTTCTCATTAGT
ACTCTCGGGGTTCTTCTTACAGACCCCTTCTCTGGTGGAACCTCTGTGTATCGTCTGGTTCACC
TTTGAGCTCCTGGTGCGCTTCTCTGCTGTCCCAGCAAGGCGGCCTTCTTTCGCAATATCATGAACATC
ATTGACTTGGTGGCCATCTCCCTACTTTATCACCTGGGACCCGAGCTAGTGCAACGTCACGAGCAG
CAGCCTGTGAGTGGTGGCAGTGGTCAGAATGGGACGAGGCCATGTCCCTAGCCATCCTCAGGGTGATC
CGCCTGGTCCGGGTGTTTCGGATCTTCAAGCTCTCCGCCACTCAAGGGGTTGCAGATCCTGGGTAAG
ACCTTGAAGCATCCATGCGGGAGCTCGGGTACTCATCTTCTTCTTCTCATTGGAGTCATCCTCTTC
TCCAGCGCTGTCTACTTCGAGAGGCAGATGACGTTGACTCGCTTCCCTAGCATCCAGATGCCTTT
TGGTGGGCTGTGGTTACAATGACCACAGTAGGTTATGGGACATGTACCCCATGACGGTGGGAGGCAAG
ATTGTGGGCTCACTGTGTGCCATTGCTGGGTCCTCACCAATTGCATTACCGGTACCGTCAATTGTCTCC
AATTTCAACTACTTCTACCACCGAGAGACGGAGCAGGAGGAACAAGGCCAGTATACCCACGTCACCTGT
GGGCAGCTACACCGGACCTGAAGGCAACGGACAATGGGCTTGGCAAACCTGACTTTGCGGAGGCTTCA
CGGGAACGGCGTCCAGCTACCTCCAACCTCACATCGAGCTTATGCAGAGAAAAGGATGCTCACCGAG
GTTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

**Protein Sequence:**

```
MRSEKSL TLAAPGEVVRGPEGEQQDAGEFQEAEGGGGCCSSERLVINISGLRYETQLRTLSPFDLLGD
PGRRVRFDFPLRNEYFFDRNRPSFDAILYYYQSGGRLRRPVNPLDIFMEEIRFYQLGDEALAFREDE
GCLPEGGEDEKPLPSQPFQRQVWLLFEYPSSGPARGIAIVSVLVILISIVIFCLELTPQFRADGRGGS
NEGSGTRMSPASRGSHEEEDDEDSDYAFPGSIPSGGLTGGTSSFSTLGGSFFTDPFFLVETLCIVWFT
FELLVRFVRFIFKLSRHSKGLQILGKTLQASMRELGLLIFFLFIGVILFSSAVYFAEADDVDSLFPSPIDAF
WWAVVTMTTVGYGDMYPMTVGGKIVGSLCAIAGVLTIALPVPVIVSNFNFYHRETEQEEQGQYTHVTC
GQPTPDLKATDNGLGKPDFAEASRERRSSYLPTPHRAYAEKRMLTEV*
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

**Fully Sequenced ORF:** >RN216861 representing NM\_023954  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGATCGGAGAAATCCCTGACGCTGGCGGCCCGGGGAGGTCCGTGGCCGGAGGGGAGCAACAGG  
 ATGCGGGTGAGTTCCAGGAGGCCGAGGGCGGCCGGCTGCTGTAGTAGTGAGAGGCTGGTGATCAACAT  
 CTCTGGGCTGCGCTACGAGACGCAGCTGCGCACCTTGTGCTGTTCCCTGACACGCTGCTAGGAGACCT  
 GGCCGAGAGTCCGCTTCTTTGACCCCTTGAGGAATGAGTACTTCTTTGACCGCAACCGACCCAGCTTCG  
 ACGCTATCCTTTACTACTACCAGTCGGGGGTCGCTGCGCAGGCCGGTTAACGTGCCCTTGACATCTT  
 TATGGAAGAGATTCGCTTCTATCAGTTGGGAGATGAAGCCCTGGCGCCCTCCGGGAGGATGAGGGTTGC  
 CTGCCGAAGGTGGTGGAGATGAGAAGCCACTCCCCTCCAGCCTTCCAGCGACAGGTCTGGCTCTCT  
 TTGAGTATCCGGAGAGTCTGGGCCCGCCGAGGCATTGCCATCGTCTCAGTGTGGTTCATCTCATCTC  
 CATTGTCACTTTTGCCTGGAGACCTTGCCTCAGTTCCTGTCAGATGGGCGCGGTGAAGCAACGAGGGG  
 AGTGGGACCCGCATGTCCCGGCCCTCAGGGGGAGCCACGAGGAGGAAGATGAAGACGAGGATTCCTATG  
 CATTTCCTGGTAGCATTCCCTCTGGGGGTTGGGGACCGAGGAACCTTCTCATTAGTACTCTCGGGG  
 TTCTTCTTACAGACCCCTTCTTCTGGTGAAACTCTGTGTATCGTCTGGTTCACCTTTGAGCTCCTG  
 GTGCGCTTCTCTGCTGTCCCAGCAAGCGGCCTTCTTTCGCAATATCATGAACATCATTGACTTGGTGG  
 CCATCTTCCCCTACTTTATCACCTGGGCACCGAGCTAGTGCAACGTACGAGCAGCAGCCTGTGAGTGG  
 TGGCAGTGGTCAAGTGGCAGCAGGCCATGTCCCTAGCCATCCTCAGGGTATCCGCTGGTCCGGGTG  
 TTTGGATCTTCAAGCTCTCCGCCACTCCAAGGGTTGCAGATCCTGGGTAAGACCTTGAAGCATCCA  
 TGCGGGAGCTCGGGCTACTCATCTTCTTCTTCTTATTGGAGTCATCTTCTCCAGCGCTGTACTT  
 CGCAGAGCAGATGACGTTGACTCGCTTCCCTAGCATCCAGATGCCTTTTGGTGGGCTGTGGTTACA  
 ATGACCACAGTAGGTTATGGGGACATGTACCCATGACGGTGGGAGGCAAGATTGTGGGCTCACTGTGTG  
 CCATTGTGGGGTCTCACCATTTGCATTACCGGTACCGGTATTGTCTCCAATTTCAACTACTTCTACCA  
 CCGAGAGACGGAGCAGGAGGAACAAGGCCAGTATACCCACGTCACTTGTGGGCAGCCTACACCGACCTG  
 AAGGCAACGGACAATGGGCTTGGCAAACCTGACTTTGCGGAGGCTTACGGGAACGGCGGTCCAGCTACC  
 TTCCAACCTCACATCGAGCTTATGCAGAGAAAAGGATGCTCACCGAGGTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_023954
- Insert Size:** 1593 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_023954.2](#)

**RefSeq Size:** 6696 bp

**RefSeq ORF:** 1593 bp

**Locus ID:** 64358

**Cytogenetics:** 4q42

**MW:** 58.8 kDa

**Gene Summary:** voltage-gated potassium channel [RGD, Feb 2006]