

## Product datasheet for **RC234492**

### **Kv3.2 (KCNC2) (NM\_001260499) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Kv3.2 (KCNC2) (NM_001260499) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kv3.2
Synonyms:	KV3.2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RC234492 representing NM\_001260499  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGCAAGATCGAGAACAACGAGAGGGTGATCCTCAATGTCGGGGGCACCCGGCACGAAACCTACCGCA  
 GCACCCTCAAGACCCTGCCTGGAACACGCCTGGCCCTTCTTGCCTCCTCGAGCCCCAGGGGACTGCTT  
 GACCACGGCGGGCGACAAGCTGCAGCCGTCGCCGCCCTCCACTGTCGCGCGCCGCGAGAGCGCCCCGCTG  
 TCCCCGGGCCAGGGCGGCTGCTTCGAGGGCGCGCGGCAACTGCAGTCCCGCGCGGCAGGGCCAGCG  
 ACCATCCCGGTGGCGCCGCGAGTTCTTCTCGACCGGCACCCGGGCGTCTTCGCTATGTGCTCAATTA  
 CTACCGCACCGGCAAGCTGCACTGCCCCGAGACGTGTGCGGGCCGCTCTTCGAGGAGGAGCTGGCTTC  
 TGGGGCATCGACGAGACCGACGTGGAGCCCTGCTGCTGGATGACCTACCGGCAGCACCGCGACGCCGAGG  
 AGGCGCTGGACATCTTCGAGACCCCGACCTATTGGCGGCGACCCGGGCGACGACGAGGACCTGGCGGC  
 CAAGAGGCTGGGCATCGAGGACGCGCGGGGCTCGGGGGCCCCGACGGCAAATCTGGCCGCTGGAGGAGG  
 CTGCAGCCCCGCATGTGGGCCCTCTTGAAGACCCTACTCGTCCAGAGCCGCCAGGTTTATTGCTTTTG  
 CTCTTTATTCTTCATCCTGGTTTCAATTACAACTTTTTGCCTGGAAACACATGAAGCTTCAATATTGT  
 TAAAAACAAGACAGAACCAGTCATCAATGGCACAAAGTGTGTTCTACAGTATGAAATTGAAACGGATCCT  
 GCCTTGACGTATGTAGAAGGAGTGTGTGGTGTGGTTACTTTTGAATTTTAGTCCGTATTGTTTTT  
 CACCCAATAAACTTGAATTCATCAAAAATCTCTTGAATATCATTGACTTTGTGGCCATCCTACCTTTCTA  
 CTTAGAGGTGGGACTCAGTGGGCTGTATCAAAGCTGCTAAAGATGTGCTTGGCTTCTCAGGGTGGTA  
 AGGTTTGTGAGGATCCTGAGAATTTTCAAGCTCACCCGCCATTTTGTAGGCTGAGGGTGGTGGACATA  
 CTCTTCGAGCTAGTACTAATGAATTTTGGCTGCTGATAATTTTCCCTGGCTTAGGAGTTTGTATTTTGC  
 TACCATGATCTACTATGCCGAGAGAGTGGGAGCTCAACCTAACGACCCTCAGCTAGTGAGCACACACAG  
 TTCAAAAACATCCCATGGTTCTGGTGGGCTGTAGTGACCATGACTACCCTGGTTATGGGGATATGT  
 ACCCCCAAACATGGTCAGGCATGCTGGTGGGAGCCCTGTGTGCTCGGCTGGAGTGTGACAATAGCCAT  
 GCCAGTGCCTGTCTTGTCAATAATTTTGAATGTACTACTCCTTGGCAATGGCAAAGCAGAAAATTCCA  
 AGGAAAAGAAAGAAGCACATCCCTCCTGCTCCTCAGGCAAGCTCACCTACTTTTTGCAAGACAGAATTA  
 ATATGGCCTGCAATAGTACACAGAGTGACACATGTCTGGGCAAAGACAATCGACTTCTGGAACATAACAG  
 ATCAGGATATGAAAAATCCGAAGCTTAAACAACATAGCGGGCTTGGCAGGCAATGCTCTGAGGCTCTCT  
 CCAGTAACATCACCTACAACCTCCTTGTCTCTGAGGGCTCTCGATCTCCATCCCATCTATCTTG

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234492 representing NM\_001260499  
 Red=Cloning site Green=Tags(s)

MGKIENNERVILNVGGTRHETYRSTLKLTPGTRLALLASSEPPGDCLTTAGDKLQSPSPPLSPPPRAPPL  
 SPGPGGCFEGGAGNCSSRGGGRASDHPPGGREFFDRHPGVFAYVLNYYRTGKLHCPADVCGPLFEEELAF  
 WGIDETDVEPCCWMTYRQHRDAEEALDIFETPDLIIGDPPGDDLAAKRLGIEDAAGLGGPDGKSGRWRR  
 LQPRMWALFEDPYSSRAARFIAFASLFFILVSITTFCLETHEAFNIVKNKTEPVINGTSVVLQYEIETDP  
 ALTYVEGVVWFVTFEFLVRIVFSNPKLEFIKLLNIIDFVAILPFYLEVGLSGLSSKAAKDVLFGLRVV  
 RFVRIIRIFKLTRHFVGLRVLGHTLRASNEFLLLIIFLALGVLIFATMIYYAERVAQPNDPSASEHTQ  
 FKNIPIGFWAVVTMTTLGYGDMYPQWWSGMLVGCALAGVLTAMPVPVIVNNFMYYSLAMAKQKLP  
 RKRRKKHIPPAPQASSPTFCKTELNMACNSTQSDTCLGKDNRLLEHNRSGYEKSRSLNNIAGLAGNALRLS  
 PVTSPYNSPCPLRRSRSPISIL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001260499

**ORF Size:** 1749 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:**

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\\_001260499.2](#)
**RefSeq Size:** 5347 bp

**RefSeq ORF:** 1752 bp

**Locus ID:** 3747

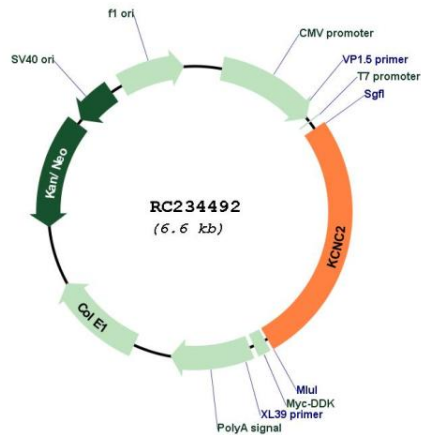
**UniProt ID:** [Q96PR1](#)
**Cytogenetics:** 12q21.1

**Protein Families:** Druggable Genome, Ion Channels: Potassium, Transmembrane

**MW:** 64.7 kDa

**Gene Summary:** The Shaker gene family of *Drosophila* encodes components of voltage-gated potassium channels and is comprised of four subfamilies. Based on sequence similarity, this gene is similar to one of these subfamilies, namely the Shaw subfamily. The protein encoded by this gene belongs to the delayed rectifier class of channel proteins and is an integral membrane protein that mediates the voltage-dependent potassium ion permeability of excitable membranes. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]

**Product images:**



Circular map for RC234492