

Product datasheet for **SC109364**

Kv3.2 (KCNC2) (NM_153748) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kv3.2 (KCNC2) (NM_153748) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNC2
Synonyms:	KV3.2
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_153748, the custom clone sequence may differ by one or more nucleotides

```

ATGGGCAAGATCGAGAACAACGAGAGGGTATCTCTCAATGTCTGGGGGACCCGGCAGAACTACCGCA
GCACCCTCAAGACCCTGCCTGGAACACGCCTGGCCCTTCTTGCCTCCTCCGAGCCCCAGGCGACTGCTT
GACCACGGCGGGGACAAGCTGCAGCCGTCCGCGCTCCACTGTGCGCCGCGCCGAGAGCGCCCCGCTG
TCCCCCGGGCCAGGCGGCTGCTTCGAGGGCGCGCGGCAACTGCAGTTCGCGCGCGGAGGGCCAGCG
ACCATCCCGGTGGCGGCGGAGTTCTTCTCGACCGGCACCCGGGCGTCTTCGCTATGTGCTCAATTA
CTACCGCACCGGCAAGCTGCACTGCCCCGAGACGTGTGCGGGCCGCTCTTCGAGGAGGAGCTGGCCTTC
TGGGGCATCGACGAGACCAGCTGGAGCCCTGCTGCTGGATGACCTACCGGCAGCACCCGCGACGCCGAGG
AGGCGCTGGACATCTTCGAGACCCCGACCTATTGGCGGCGACCCGGCGACGACGAGGACCTGGCGGC
CAAGAGGCTGGGCATCGAGGACGCGCGGGGCTCGGGGGCCCCGACGGCAAATCTGGCCGCTGGAGGAGG
CTGCAGCCCCGCATGTGGGCCCTCTCGAAGACCCTACTCGTCCAGAGCCGCCAGGTTTATTGCTTTTG
CTTCTTTATTCTTCATCCTGGTTTCAATTAACAATTTTTGCCTGGAACACATGAAGCTTCAATATTGT
TAAAAACAAGACAGAACCAGTCAATGGCACAAAGTGTGTTCTACAGTATGAAATTGAAACGGATCCT
GCCTTGACGTATGTAGAAGGAGTGTGTGGTGTGGTTACTTTTGAATTTTAGTCCGATTGTTTTT
CACCCAATAAACTTGAATTCATCAAAAATCTCTTGAATATCATTGACTTTGTGGCCATCCTACCTTTCTA
CTTAGAGGTGGGACTCAGTGGGCTGTATCCAAAGCTGTAAAGATGTGCTTGGCTTCTCAGGGTGGTA
AGGTTTGTGAGGATCCTGAGAATTTTCAAGCTCACCCGCCATTTTGTAGGTCTGAGGGTGGTGGACATA
CTCTTCGAGCTAGTACTAATGAATTTTGTCTGTGATAATTTTCTGGCTCTAGGAGTTTGTATTTGC
TACCATGATCTACTATGCCGAGAGAGTGGGAGCTCAACCTAACGACCCTCAGCTAGTGACACACACAG
TTCAAAAACATTCCCATTGGGTTCTGGTGGGCTGTAGTACCATGACTACCCTGGGTTATGGGATATGT
ACCCCCAAACATGGTCAGGCATGCTGGTGGGAGCCCTGTGTGCTTGGCTGGAGTGTGACAATAGCCAT
GCCAGTGCCTGTATTGTCAATAATTTTGAATGTACTACTCCTTGGCAATGGCAAAGCAGAACTTCCA
AGGAAAAGAAAGAAGCACATCCCTCCTGCTCCTCAGGCAAGCTCACCTACTTTTTGCAAGACAGAATTAA
ATATGGCTGCAATAGTACACAGAGTGACACATGTCTGGGCAAAGACAATCGACTTCTGGAACATAACAG
ATCAGATAACTGCAAAGAGGTTGCTACTACTGTTACACGCAAGCCGAGGCCAGATCTCTTACTTAA
    
```

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_153748 unedited

```

TATACGACTCATATAGGCGGCCGNAATTCGCACGAGGGCGGGGAGGTTGATGGCGA
GTGGTGTGAAGGGACAGCTCCAGCAGTGGCTGATTTGGGGGAGAAACAAAATCTGCAGA
TGAATCCGAGCAGGGGACTTCACCTTCAAGTGGTGAGCTCTCCTGACCTGCGGCCAGT
CTCCACTCCATTACGGCCAGCCGATCTGCCCGCTCCCGGAGGGGTGGGCGAGTCCGGC
TGGACCCGCCCGAGCTCCATGGTTTGCCCAACCCTGCGCGATGGTACTCTGGGCGCGG
AGGTTGGCGACTGGCAAATCCGCAGATCACAGAATGAAGGCGGGGAGCGCGGCCGGCGG
CGGCGGGGGCTTCTCCCCACCCAGCGCCAGGGAAGCGGCTCAACCACCTGAATCCG
GAAAACGCCAACAAAGTAGTTTCTCGTGGAGAAGGGCGGCTCACCTGGGCGCCAAGACTC
AGTCCCCTGCCAGAGAACCTCGTCCACTCGGAAACCAAGCAGAACCACTTTTTCTC
GGTCTCGTTAAGTCATGTCTGAGTCACAGAGATGGGCAAGATCGAGAACAACGAGAGGT
GATCCTCAATGTGGGGGACCCGGCACGAAACCTACCGCAGCACCCCTAAGACCCTGCC
TGAACACGCCTGGCCCTTCTTGCTCCTCCGAGCCCCAGGCGACTGCTTGACCACGGC
GGGCGACAAGCTGCAGCCGTGCGCCGCTCCACTGTGCGCCGCCGCGAGAGCGCCCCGCTG
TCCCCGGCCAGGCGGCTGCTTCGAGGGCGCGGGGCAACTGCAGNTCCCCGGGGCGGCA
GGCCAGCGACATNCCNGTGGGCGCCGCAAGTCTTTCTCGACGCACCCGGGCGTCTCGCC
TAGTGCTCAATACTACCGACCGCAGCTGACTGCCNNA
    
```

Restriction Sites:

NotI-NotI

ACCN:

NM_153748

Insert Size:

900 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:	<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:	NM_153748.1 , NP_715624.1
RefSeq Size:	3345 bp
RefSeq ORF:	1677 bp
Locus ID:	3747
UniProt ID:	Q96PR1
Cytogenetics:	12q21.1
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (3) lacks an alternate in-frame exon and differs in the 3' UTR and coding sequence compared to variant 2. The resulting isoform (KV3.2c) lacks an alternate internal segment and differs in the 3' UTR and coding sequence compared to isoform KV3.2b.</p>