

## Product datasheet for RC232592

### Kv beta 2 (KCNA2) (NM\_001199860) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Kv beta 2 (KCNA2) (NM_001199860) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kv beta 2
Synonyms:	AKR6A5; HKvbeta2; HKvbeta2.1; HKvbeta2.2; KCNA2B; KV-BETA-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC232592 representing NM_001199860 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTATCCAGAATCAACGACGGGCTCCCCGGCTCGGCTCTCGCTGCGGCAGACGGGCTCCCCGGGATGA  
TCTACAGTACTCGGTATGGGAGTCCAAAAGACAGCTCCAGTTTTACAGGAACCTGGGCAAGTCTGGCCT  
GCGGGTCTCTGCCTGGGACTTGAACATGGGTGACCTTCGGAGGCCAGATCACCGATGAGATGGCAGAG  
CAGCTCATGACCTTGGCCTATGATAATGGCATCAACCTCTCGATACAGCAGAAGTCTACGCAGCCGGCA  
AGGCTGAAGTGGTACTGGGAAACATCATTAAAGAAGAAAGGATGGAGGCGGTCCAGCCTCGTCATCACCAC  
CAAGATCTTCTGGGGCGAAAGGCGGAGACGGAGCGGGGCTGTCCAGGAAGCACATAATCGAAGGTCTG  
AAAGCTTCCCTGGAGCGACTGCAGCTGGAGTACGTGGATGTGGTGTGGCAACCGCCGGACCCCAACA  
CCCCGATGGAAGAGACCGTCCGCGCCATGACCCACGTCATCAACCAGGGGATGGCCATGTAAGGGGAC  
GTCACGCTGGAGCTCCATGGAGATCATGGAGGCCACTCCGTGGCCCGCAGTTC AACCTGACCCCGCCC  
ATCTGCGAGCAGGCTGAGTACCACATGTTCCAGCGTGAGAAAGTGGAGGTGCAGCTGCCGGAGCTGTTCC  
ACAAGATAGGAGTGGGCGCCATGACCTGGTCCCCTCTGGCCTGTGGCATTGTTTCTGGCAAGTACGACAG  
TGGCATCCCACCCTACTCAAGAGCCTCCTTGAAGGGCTACCAGTGGCTGAAGGACAAGATCCTCAGTGAG  
GAGGGCCGCGCCAGCAAGCCAAGCTGAAGGAGCTGCAGGCCATCGCCGAGCGCTGGGTCACCCCTGC  
CCAGCTGGCCATAGCCTGGTGCCTGAGGAATGAGGGAGTCAGCTCCGTGCTCCTGGGGGCTCCAATGC  
GGACCAGCTCATGGAGAATTGGGGCAATACAGTCTTCCGAAACTGTCGTCTTCCATTATCCACGAG  
ATTGATAGTATTTGGGCAATAAACCTACAGCAAAAAGGACTACAGATCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

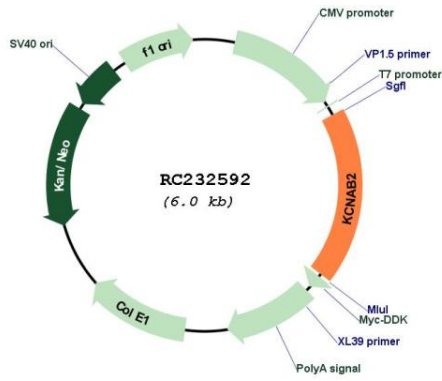


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<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001199860.1, NP_001186789.1</u>
<b>RefSeq Size:</b>	4298 bp
<b>RefSeq ORF:</b>	1104 bp
<b>Locus ID:</b>	8514
<b>UniProt ID:</b>	<u>Q13303</u>
<b>Cytogenetics:</b>	1p36.31
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other
<b>MW:</b>	41 kDa
<b>Gene Summary:</b>	<p>Voltage-gated potassium (Kv) channels represent the most complex class of voltage-gated ion channels from both functional and structural standpoints. Their diverse functions include regulating neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila, and each has been shown to have human homolog(s). This gene encodes a member of the potassium channel, voltage-gated, shaker-related subfamily. This member is one of the beta subunits, which are auxiliary proteins associating with functional Kv-alpha subunits. This member alters functional properties of the KCNA4 gene product. Alternative splicing of this gene results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Dec 2010]</p>

Product images:



Circular map for RC232592