

Product datasheet for **SC309774**

KCNGB (NM_133329) Human Untagged Clone

Product data:


Product Type:	Expression Plasmids
Product Name:	KCNGB (NM_133329) Human Untagged Clone
Tag:	Tag Free
Symbol:	KCNGB
Synonyms:	KV6.3; KV10.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC309774 representing NM_133329. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGACCTTCGGGCGCAGCGGGCGGCCTCGGTGGTGTGAACGTGGGCGGCGCCCGGATTTCGCTGTCC
CGGGAGCTGTGAAGGACTTCCCGCTGCCCGCGTGAGCCGGCTGCACGGCTGCCGCTCCGAGCGCGAC
GTGCTCGAGGTGTGCGACGACTACGACCGCGAGCGCAACGAGTACTTCTCGACCGGCACTCGGAGGCC
TTCGGCTTCATCCTGCTACTGTCGCGGCCACGGCAAGCTGCGCTTCGCGCCGGGATGTGCGAGCTC
TCCTTCTACAACGAGATGATCTACTGGGCCTGGAGGGCGCGCACCTCGAGTACTGCTGCCAGCGCCGC
CTCGACGACCGCATGTCCGACACCTACACCTTCTACTCGGCCGACGAGCCGGGCGTGTGGGCCGCGAC
GAGGCGCGCCCGCGGGGCCGAGGCGGCTCCCTCCAGGCGCTGGCTGGAGCGCATGCGGCGGACCTTC
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TGGTTCAGTCCGAGTGCATCGTGAGGTTCAATGTCTCCAAAAACAAGTGTGAGTTTGTCAAGAGACCC
CTGAACATCATTGATTTACTGGCAATCACGCCGATTACATCTCTGTGTTGATGACAGTGTTTACAGGC
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ATCTCTATGACTACAGTTGGCTATGGAGATATGTATCCTATCACAGTGCCTGGAAGAATCTTGAGGA
GTTTGTGTTGTCAGTGAATTTCTATTGGCATTACCTATCACTTTTATCTACCATAGCTTTGTGCAG
TGTTATCATGAGCTCAAGTTTAGATCTGCTAGGTATAGTAGGAGCCTCTCCACTGAATTCCTGAATTAA

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGCGC
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Restriction Sites:	Sgfl-Mlul
Plasmid Map:	
ACCN:	NM_133329
Insert Size:	1311 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_133329.5
RefSeq Size:	3854 bp
RefSeq ORF:	1311 bp
Locus ID:	170850
UniProt ID:	Q8TAE7
Cytogenetics:	2p21
Domains:	BTB, K_tetra, ion_trans
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
MW:	49.6 kDa
Gene Summary:	<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. This gene encodes a member of the potassium channel, voltage-gated, subfamily G. This member is a gamma subunit functioning as a modulatory molecule. Alternative splicing results in two transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1), also known as Kv10.1b, encodes the longer isoform (1).</p>