OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC210303

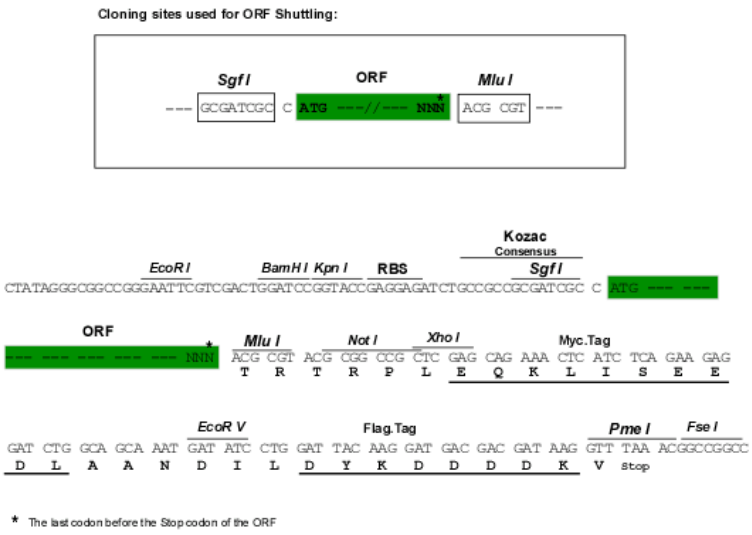
KCNE3 (NM_005472) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KCNE3 (NM_005472) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KCNE3
Synonyms:	BRGDA6; HOKPP; HYPP; MiRP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210303 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGACTACCAATGGAACGGAGACCTGGTATGAGAGCCTGCATGCCGTGCTGAAGGCTCTAAATGCCA CTCTTCACAGCAATTTGCTCTGCCGGCCAGGGCCAGGGCTGGGGCCAGACAACCAGACTGAAGAGAGGCG GGCCAGCCTACCTGGCCGTGATGACAACTCCTACATGTACATTCTCTTTGTCATGTTTCTATTTGCTGTA ACTGTGGGCAGCCTCATCCTGGGATACACCCGCTCCCGCAAAGTGGACAAGCGTAGTGACCCCTATCATG TGTATATCAAGAACCGTGTGTCTATGATC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC210303 protein sequence Red=Cloning site Green=Tags(s) METTNGTETWYESLHAVLKALNATLHSNLLCRPGPGLGPDNQTEERRASLPGRDDNSYMYILFVMFLFAV TVGSLILGYTRSRKVDKRSDPYHVYIKNRVSMI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6005_c09.zip
Restriction Sites:	SgfI-MluI

View online »

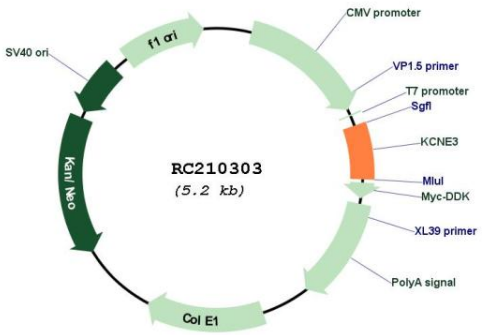
Cloning Scheme:



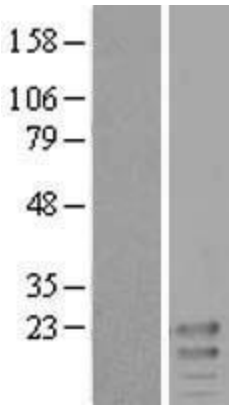
ACCN:	NM_005472
ORF Size:	309 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005472.5
RefSeq Size:	3070 bp
RefSeq ORF:	312 bp

Locus ID:	10008
UniProt ID:	Q9Y6H6
Cytogenetics:	11q13.4
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
MW:	11.7 kDa
Gene Summary:	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, isk-related subfamily. This member is a type I membrane protein, and a beta subunit that assembles with a potassium channel alpha-subunit to modulate the gating kinetics and enhance stability of the multimeric complex. This gene is prominently expressed in the kidney. A missense mutation in this gene is associated with hypokalemic periodic paralysis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC210303



Western blot validation of overexpression lysate (Cat# [LY401689]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210303 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).