

# Product datasheet for RC207223L1

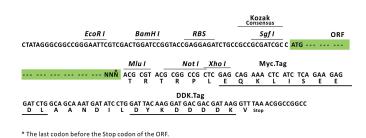
# KCNA3 (NM\_002232) Human Tagged Lenti ORF Clone

# **Product data:**

### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	KCNA3 (NM_002232) Human Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	KCNA3
Synonyms:	HGK5; HLK3; HPCN3; HUKIII; KV1.3; MK3; PCN3
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC207223).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:



ACCN: ORF Size: NM\_002232 1725 bp



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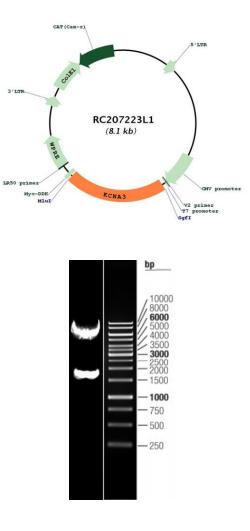
<b>GRIGENE</b> KCNA3 (NM_002232) Human Tagged Lenti ORF Clone – RC207223L1	
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 002232.3</u>
RefSeq Size:	3346 bp
RefSeq ORF:	1728 bp
Locus ID:	3738
UniProt ID:	<u>P22001</u>
Cytogenetics:	1p13.3
Domains:	BTB, K_tetra, ion_trans
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
MW:	63.7 kDa

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### CRIGENE KCNA3 (NM\_002232) Human Tagged Lenti ORF Clone – RC207223L1

# Gene Summary:Potassium channels represent the most complex class of voltage-gated ion channels from<br/>both functional and structural standpoints. Their diverse functions include regulating<br/>neurotransmitter release, heart rate, insulin secretion, neuronal excitability, epithelial<br/>electrolyte transport, smooth muscle contraction, and cell volume. Four sequence-related<br/>potassium channel genes - shaker, shaw, shab, and shal - have been identified in Drosophila,<br/>and each has been shown to have human homolog(s). This gene encodes a member of the<br/>potassium channel, voltage-gated, shaker-related subfamily. This member contains six<br/>membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to<br/>the delayed rectifier class, members of which allow nerve cells to efficiently repolarize<br/>following an action potential. It plays an essential role in T-cell proliferation and activation.<br/>This gene appears to be intronless and it is clustered together with KCNA2 and KCNA10 genes<br/>on chromosome 1. [provided by RefSeq, Jul 2008]

# **Product images:**



Circular map for RC207223L1

Double digestion of RC207223L1 using Sgfl and Mlul

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