

OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 2

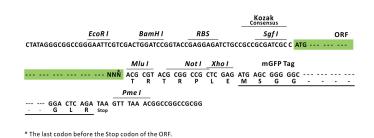
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Product datasheet for RC222200L2

Kv1.2 (KCNA2) (NM_004974) Human Tagged Lenti ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kv1.2 (KCNA2) (NM_004974) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Kv1.2
Synonyms:	DEE32; EIEE32; HBK5; HK4; HUKIV; KV1.2; MK2; NGK1; RBK2
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC222200).
Restriction Sites:	Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling:
	Sgf I ORF Mlu I GCG ATC GC ATG// NNN ACG CGT



ACCN: ORF Size: NM_004974 1497 bp



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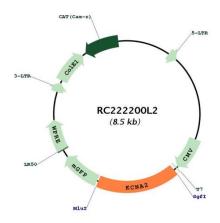
ORÎGENE Kv1.2 (KCNA2) (NM_004974) Human Tagged Lenti ORF Clone – RC222200L2
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee 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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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:	<u>NM 004974.2</u>
RefSeq Size:	2142 bp
RefSeq ORF:	1500 bp
Locus ID:	3737
UniProt ID:	<u>P16389</u>
Cytogenetics:	1p13.3
Protein Families:	Druggable Genome, Ion Channels: Potassium, Transmembrane
MW:	56.5 kDa

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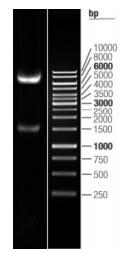
CRIGENE Kv1.2 (KCNA2) (NM_004974) Human Tagged Lenti ORF Clone – RC222200L2

Gene Summary:Potassium 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 contains six
membrane-spanning domains with a shaker-type repeat in the fourth segment. It belongs to
the delayed rectifier class, members of which allow nerve cells to efficiently repolarize
following an action potential. The coding region of this gene is intronless, and the gene is
clustered with genes KCNA3 and KCNA10 on chromosome 1. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222200L2



Double digestion of RC222200L2 using Sgfl and Mlul

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