

OriGene Technologies, Inc.

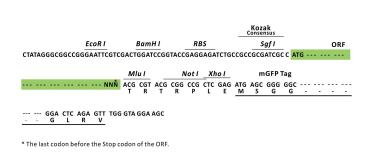
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Product datasheet for RC207384L4

Kv beta 1 (KCNAB1) (NM_172159) Human Tagged Lenti ORF Clone

Product data:

| Product Type: | Expression Plasmids |
|------------------------------|---|
| Product Name: | Kv beta 1 (KCNAB1) (NM_172159) Human Tagged Lenti ORF Clone |
| Tag: | mGFP |
| Symbol: | Kv beta 1 |
| Synonyms: | AKR6A3; hKvb3; hKvBeta3; KCNA1B; KV-BETA-1; Kvb1.3 |
| Mammalian Cell Selection: | Puromycin |
| Vector: | pLenti-C-mGFP-P2A-Puro (PS100093) |
| E. coli Selection: | Chloramphenicol (34 ug/mL) |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC207384). |
| Restriction Sites: | Sgfl-Mlul |
| Cloning Scheme: | |
| | Cloning sites used for ORF Shuttling: |
| | Sgf I ORF Mlu I GCG ATC GC ATG // NNŇ ACG CGT |



ACCN: ORF Size: NM_172159 1203 bp



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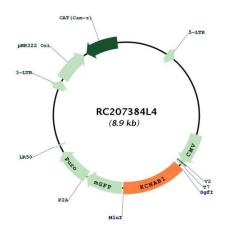
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| Service Servic | |
|--|--|
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring 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. <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 172159.2</u> |
| RefSeq Size: | 4518 bp |
| RefSeq ORF: | 1206 bp |
| Locus ID: | 7881 |
| UniProt ID: | <u>Q14722</u> |
| Cytogenetics: | 3q25.31 |
| Protein Families: | Druggable Genome, Ion Channels: Other |
| MW: | 44.7 kDa |
| 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 includes distinct isoforms which are encoded by alternatively spliced transcript variants of this gene. Some of these isoforms are beta subunits, which form heteromultimeric complexes with alpha subunits and modulate the activity of the pore-forming alpha subunits. [provided by RefSeq, |

Apr 2015]

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Product images:



Circular map for RC207384L4

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