

Product datasheet for RC211000L3

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Product data:

Product Type: Expression Plasmids

Product Name: KCNA1 (NM_000217) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: KCNA1

Synonyms: AEMK; EA1; HBK1; HUK1; KV1.1; MBK1; MK1; RBK1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

KCNA1 (NM 000217) Human Tagged Lenti ORF Clone

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC211000).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_000217

ORF Size: 1485 bp





KCNA1 (NM_000217) Human Tagged Lenti ORF Clone - RC211000L3

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.

RefSeq: <u>NM 000217.2</u>

 RefSeq Size:
 7983 bp

 RefSeq ORF:
 1488 bp

 Locus ID:
 3736

 UniProt ID:
 009470

Cytogenetics: 12p13.32

Protein Families: Druggable Genome, Ion Channels: Potassium, Transmembrane

MW: 56.5 kDa

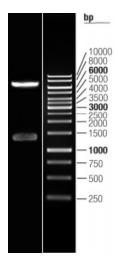
Gene Summary: This gene encodes a voltage-gated delayed potassium channel that is phylogenetically related

to the Drosophila Shaker channel. The encoded protein has six putative transmembrane segments (S1-S6), and the loop between S5 and S6 forms the pore and contains the conserved selectivity filter motif (GYGD). The functional channel is a homotetramer. The N-terminus of the channel is associated with beta subunits that can modify the inactivation properties of the channel as well as affect expression levels. The C-terminus of the channel is complexed to a PDZ domain protein that is responsible for channel targeting. Mutations in this gene have been associated with myokymia with periodic ataxia (AEMK). [provided by

RefSeq, Jul 2008]



Product images:



Double digestion of RC211000L3 using Sgfl and Mlul $\,$