

Product datasheet for **RC222200L1V**

Kv1.2 (KCNA2) (NM_004974) Human Tagged ORF Clone Lentiviral Particle

Product data:

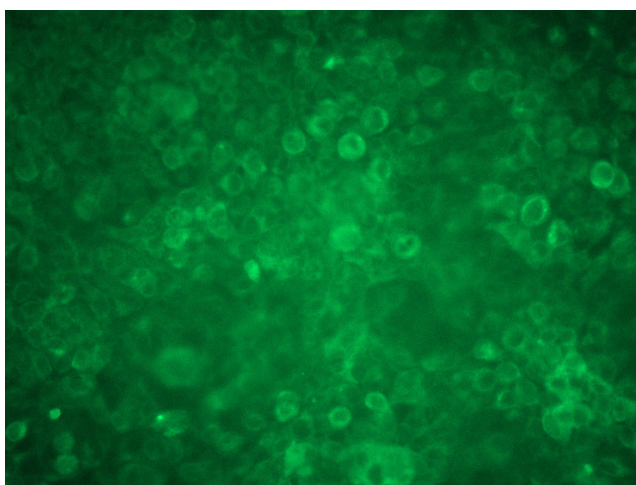
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|---------------------------|--|
| Product Type: | Lentiviral Particles |
| Product Name: | Kv1.2 (KCNA2) (NM_004974) Human Tagged ORF Clone Lentiviral Particle |
| Symbol: | Kv1.2 |
| Synonyms: | DEE32; EIEE32; HBK5; HK4; HUKIV; KV1.2; MK2; NGK1; RBK2 |
| Mammalian Cell Selection: | None |
| Vector: | pLenti-C-Myc-DDK (PS100064) |
| Tag: | Myc-DDK |
| ACCN: | NM_004974 |
| ORF Size: | 1497 bp |
| ORF Nucleotide Sequence: | The ORF insert of this clone is exactly the same as(RC222200). |
| 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. |
| RefSeq: | NM_004974.2 |
| RefSeq Size: | 2142 bp |
| RefSeq ORF: | 1500 bp |
| Locus ID: | 3737 |
| UniProt ID: | P16389 |
| Cytogenetics: | 1p13.3 |
| Protein Families: | Druggable Genome, Ion Channels: Potassium, Transmembrane |
| MW: | 56.5 kDa |



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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:

[RC222200L1] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC222200L1V particle to overexpress human KCNA2-Myc-DDK fusion protein.