

Product datasheet for RC213543L1

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Kir4.1 (KCNJ10) (NM_002241) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Kir4.1 (KCNJ10) (NM_002241) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: Kir4.1

Synonyms: BIRK-10; KCNJ13-PEN; KIR1.2; KIR4.1; SESAME

Mammalian Cell None

Selection:

Vector:pLenti-C-Myc-DDK (PS100064)E. coli Selection:Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC213543).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_002241

ORF Size: 1137 bp





Kir4.1 (KCNJ10) (NM_002241) Human Tagged Lenti ORF Clone - RC213543L1

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 002241.2</u>

RefSeq Size: 4515 bp
RefSeq ORF: 1140 bp
Locus ID: 3766

 UniProt ID:
 P78508

 Cytogenetics:
 1q23.2

Domains: IRK

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

MW: 42.3 kDa

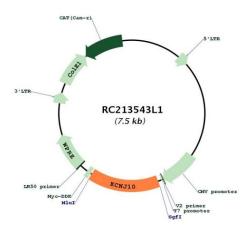
Gene Summary: This gene encodes a member of the inward rectifier-type potassium channel family,

characterized by having a greater tendency to allow potassium to flow into, rather than out of, a cell. The encoded protein may form a heterodimer with another potassium channel protein and may be responsible for the potassium buffering action of glial cells in the brain. Mutations in this gene have been associated with seizure susceptibility of common idiopathic

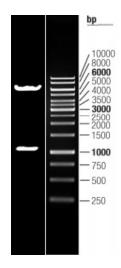
generalized epilepsy syndromes. [provided by RefSeq, Jul 2008]



Product images:



Circular map for RC213543L1



Double digestion of RC213543L1 using Sgfl and Mlul $\,$