

Product datasheet for RC211543L1

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OriGene Technologies, Inc.

KCNN3 (NM_002249) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: KCNN3 (NM 002249) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: KCNN3

Synonyms: hSK3; KCa2.3; SK3; SKCA3; ZLS3

Mammalian Cell None

Selection:

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

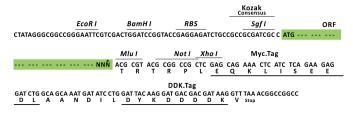
ORF Nucleotide The ORF insert of this clone is exactly the same as(RC211543).

Sequence:

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_002249

ORF Size: 2205 bp



KCNN3 (NM_002249) Human Tagged Lenti ORF Clone - RC211543L1

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 002249.3</u>

 RefSeq Size:
 3075 bp

 RefSeq ORF:
 2196 bp

 Locus ID:
 3782

 UniProt ID:
 Q9UGI6

Cytogenetics: 1q21.3

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

MW: 81.2 kDa

Gene Summary: Action potentials in vertebrate neurons are followed by an afterhyperpolarization (AHP) that

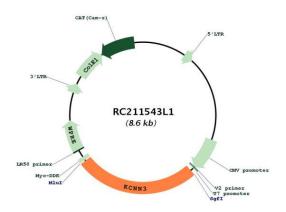
may persist for several seconds and may have profound consequences for the firing pattern of the neuron. Each component of the AHP is kinetically distinct and is mediated by different calcium-activated potassium channels. This gene belongs to the KCNN family of potassium channels. It encodes an integral membrane protein that forms a voltage-independent calcium-activated channel, which is thought to regulate neuronal excitability by contributing to the slow component of synaptic AHP. This gene contains two CAG repeat regions in the coding sequence. It was thought that expansion of one or both of these repeats could lead to an increased susceptibility to schizophrenia or bipolar disorder, but studies indicate that this

is probably not the case. Alternatively spliced transcript variants encoding different isoforms

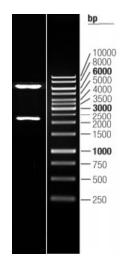
have been found for this gene. [provided by RefSeq, Feb 2011]



Product images:



Circular map for RC211543L1



Double digestion of RC211543L1 using Sgfl and Mlul $\,$