

Protein Sequence: >RG206128 representing NM_002242
 Red=Cloning site Green=Tags(s)

MDSSNCKVIAPLLSQRYRRMVTKDGHSTLQMDGAQRGLAYLRDAWGILMDMRWRWMLVFSASFVVHVLV
 FAVLWYVLAEMNGDLELDHDAPPENHTICVKYITSFTAASFSLTQLTIGYGTMFPSGDCPSAIALLAI
 QMLLGLMLEAFITGAFVAKIARPKNRAF SIRFTDIAVVAHMDGKPNLIFQVANTRPSPLTSVRVSAVLYQ
 ERENGKLYQTSVDFHLDGISSDECPFFIFPLTYHHSITPSSPLATLLQHENPSHFELVVFLSAMQEGTGE
 ICQRRTSYLQSEIMLHHCFAALLTRGSKCEYQIKMENFDKTVPEFPTPLVSKSPNRTDLDIHINGQSIDN
 FQISETGLTE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002242

ORF Size: 1080 bp

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: [NM_002242.2](#), [NP_002233.1](#)

RefSeq Size: 2981 bp

RefSeq ORF: 1083 bp

Locus ID: 3769

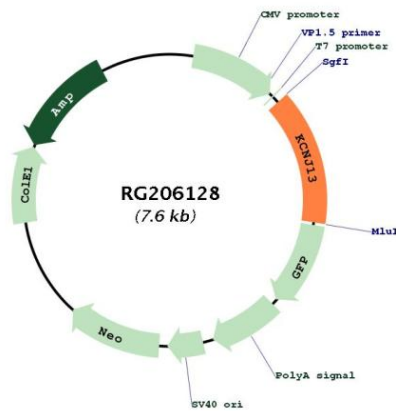
UniProt ID: [O60928](#)

Cytogenetics: 2q37.1

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

Gene Summary: This gene encodes a member of the inwardly rectifying potassium channel family of proteins. Members of this family form ion channel pores that allow potassium ions to pass into a cell. The encoded protein belongs to a subfamily of low signal channel conductance proteins that have a low dependence on potassium concentration. Mutations in this gene are associated with snowflake vitreoretinal degeneration. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2010]

Product images:



Circular map for RG206128