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Product datasheet for RC227300

Prickle (PRICKLE1) (NM_001144881) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prickle (PRICKLE1) (NM_001144881) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prickle
Synonyms:	EPM1B; RILP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227300 representing NM_001144881
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTTTGGAGATGGAGCCCAAGATGAGCAAACTGGCCTTTGGCTGTCAGAGAAGTTCCACATCAGATG
ATGACTCTGGCTGTGCATTGGAGGAGTACGCCTGGGTCCCCCCGGGCCTGAGACCAGAGCAGATCCAGCT
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GTCCAGAGCAGTCATGCATGCTGTGTGTGAGCAGTGTGGTTTGAAGATAAATGGAGGTGAAGTTGCAGTG
TTCGCCTCCCGTGCGGGCCCTGGTGTGTGCTGGCACCCATCCTGTTTTGTCTGTTTCACGTGTAATGAGC
TGCTGGTCGACCTCATCTATTTTTATCAGGATGGAAAAATTCACTGTGGCAGGCACCATGCAGAACTGCT
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CAAGAAGAAAAAGGGACACAAGGGCAAAAATTGTATTATTTCT

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227300 representing NM_001144881
Red=Cloning site Green=Tags(s)

MPLEMEPKMSKLAFGCQRSSTSDDDSGCALEEYAWVPPGLRPEQIQLYFACLPEEKVPYVNSPGEKHRIK
QLLYQLPPHDNEVRYCQSLSEEEKKELQVFSAQRKKEALGRGTIKLLSRAVMHAVCEQCGLKINGGEVAV
FASRAGPGVCWHPSCFVCFTCNELLVDLIYFYQDGKIHCGRHHAELLKPRCSACDEIIFADECTEAEGRH
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LLSPALNYKFPGLSGNADDTLSRKLDDLSLSRQGTSFASEEFWKGRVEQETPEDPEEWADHEDYMTQLLL
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PASSRRLQELELDHGASGYNHDETQWYEDSLECLSDLKPEQSVRDSMDSLALSNITGASVDGENKPRPSL
YSLQNFEEMETEDCEKMSNMGTLNSSMLHRSAESLKSLSSELCPEKILPEEKPVHLPVLRRSKSQSRPQQ
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LRLYTPDNYEKFIQNKSAREIQAYIQNADLYGQYAHATSDYGLQNPGMNRFLGLYGEDDDSWCSSSSSSS
DSEEEGYFLGQPIPQPRPQRFAYYTDDLSSPPSALPTPQFGQRTTKSKKKKGHKGKNCIIS

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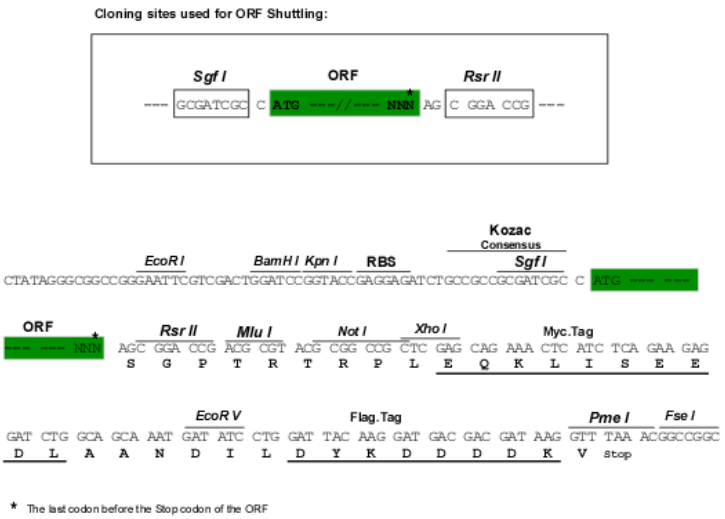
Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_001144881

ORF Size: 2493 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_001144881.2

RefSeq ORF: 2496 bp

Locus ID: 144165

UniProt ID: Q96MT3

Cytogenetics: 12q12

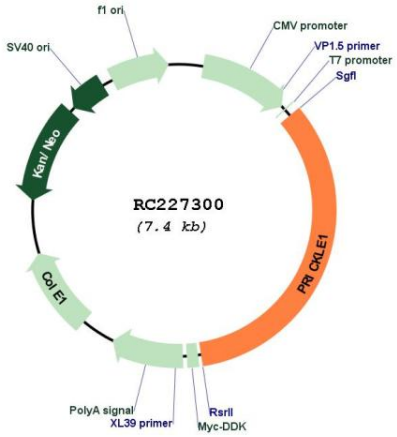
Protein Families: Druggable Genome

Protein Pathways: Wnt signaling pathway

MW: 94.1 kDa

Gene Summary: This gene encodes a nuclear receptor that may be a negative regulator of the Wnt/beta-catenin signaling pathway. The encoded protein localizes to the nuclear membrane and has been implicated in the nuclear trafficking of the transcription repressors REST/NRSF and REST4. Mutations in this gene have been linked to progressive myoclonus epilepsy. Alternate splicing results in multiple transcript variants. A pseudogene of this gene is found on chromosome 3. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RC227300