

## Product datasheet for **RC227340**

### Prickle (PRICKLE1) (NM\_001144883) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prickle (PRICKLE1) (NM_001144883) 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)



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**ORF Nucleotide  
Sequence:**

>RC227340 representing NM\_001144883  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCTTTGGAGATGGAGCCCAAGATGAGCAAAGTGGCCTTTGGCTGTGACAGAAAGTCCACATCAGATG  
 ATGACTCTGGCTGTGCATTGGAGGAGTACGCCTGGGTCCCCCGGCCTGAGACCAGAGCAGATCCAGCT  
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 CAGCTTTTGTACCAGTTACCACCACATGATAATGAGGTACGGTATTGCCAGTCTTTGAGTGAAGAGGAGA  
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 GTCCAGAGCAGTCATGCATGCTGTGTGAGCAGTGTGGTTTGAAGATAAATGGAGTGAAGTTGCAGTG  
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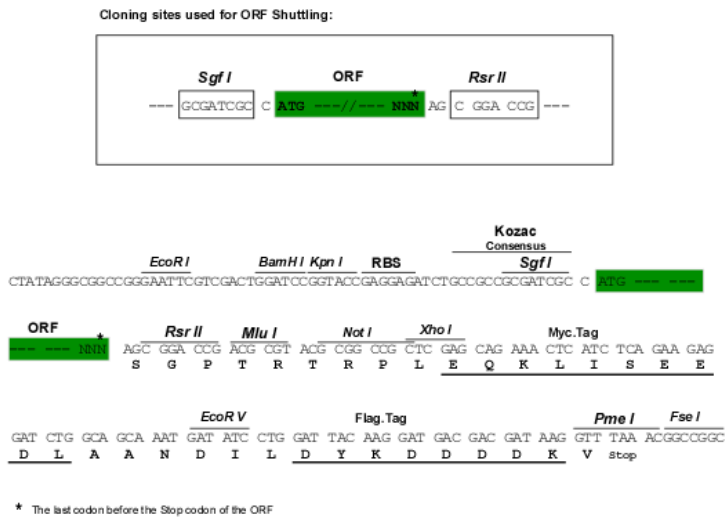
AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227340 representing NM\_001144883  
Red=Cloning site Green=Tags(s)

MPLMEPKMSKLAFGCQRSSTSDDDSGCALEEYAWPPGLRPEQIQLYFACLPEEKVPYVNSPGEKHKRIK  
QLLYQLPPHDNEVRYCQSLSEEEKKELQVFSQRKKEALGRGTIKLLSRAVMHAVCEQCGLKINGGEVAV  
FASRAGPGVCWHPSCFVCFCTCNELLVDLIYFYQDGKIHCGRHHAELLKPRCSACDEIIFADECTEAEGRH  
WHMKHFCCLCEETVLGGQRYIMKDGRPFCCGCFESLYAEYCETCGEHIGVDHAQMTYDGGHWHATEACFS  
CAQCKASLLGCPFLPKQGQIYCSKTCSLGEDVHASDSSDAFQSARSRDSRRSVRMGKSSRSADQCRQSL  
LLSPALNYKFPGLSGNADDTLSRKLDDLSDLRQGTSFASEEFWKGRVEQETPEDPEEWADHEDYMTQLLL  
KFGDKSLFQPQPNEMDIRASEHWISDNMVKSKTELKQNNQSLASKKYQSDMYWAQSQDGLGDSAYGSHPG  
PASSRRLQELELDHGASGYNHDETQWYEDSLECLSDLKPEQSVRDSMDSLALSNITGASVDGENKPRPSL  
YSLQNFEEEMETEDCEKMSNMGTLNSSLHRSAESLKSLSSELCPKILPEEKPVHLVPLRRSKSQSRPQQ  
VKFSDDIVDNGNYDIEIRQPPMSERTRRRVYNFEERGSRSHHRRRRSRKSRSDNALNLVTERKYSKDR  
LRLYTPDNYEKFIQNKSAIEQAYIQNADLYGQYAHATSDYGLQNPGMNRFGLYGEDDDSWCSSSSSSS  
DSEEEGYFLGQPIPPRQRFAYYTDLLSSPPSALPTPQFGQRTTKSKKKKGHKGNKCIIS

SGPTRRRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-RsrII

**Cloning Scheme:**


**ACCN:** NM\_001144883

**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\\_001144883.2](#)

**RefSeq ORF:** 2496 bp

**Locus ID:** 144165

**UniProt ID:** [Q96MT3](#)

**Cytogenetics:** 12q12

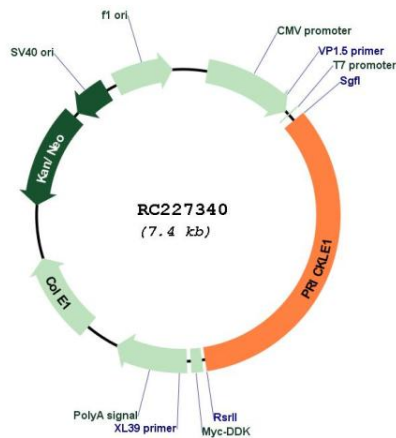
**Protein Families:** Druggable Genome

**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 RC227340