

Product datasheet for **RG223861**

Prickle (PRICKLE1) (NM_153026) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prickle (PRICKLE1) (NM_153026) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prickle
Synonyms:	EPM1B; RILP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG223861 representing NM_153026
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCTTTGGAGATGGAGCCCAAGATGAGCAAAGTGGCCTTTGGTGTGTCAGAGAAGTTCACATCAGATG
 ATGACTCTGGCTGTGCATTGGAGAGTACGCCTGGGTCCCCCGGCCTGAGACCAGAGCAGATCCAGCT
 CTATTTTGCTTGCTTACCAGAGGAAAAAGTTCCTTACGTTAACAGCCCCGGAGAGAAGCATCGGATTA
 CAGCTTTTGTACCAGTTACCACCACATGATAATGAGGTACGGTATTGCCAGTCTTTGAGTGAAGAGGAGA
 AAAAGAGTTGCAGGTGTTCAAGTCTCAGCGGAAGAAAGAAGCACTGGGAAGAGGAACAATTAAGCTTCT
 GTCCAGAGCAGTCATGCATGCTGTGTGAGCAGTGTGGTTTGAAGATAAATGGAGGTGAAGTTCAGTGT
 TTCGCCTCCCGTCCGGCCCTGGTGTGCTGGCACCCATCCTGTTTTGTCTGTTTACAGTGAATGAGC
 TGCTGGTCCAGCTCATCTATTTTATCAGGATGGAAAAATCACTGTGGCAGGCACCATGCAGAAGTCT
 CAAACCACGGTGTCTCAGCATGTGACGAGATAATTTTGTGATGAATGCACAGAAGCTGAGGGTCCCAT
 TGGCACATGAAACACTTCTGCTGCCTTGTGTAACGGTCTGGGAGGACAGAGGTATATCATGAAGG
 ACGGCCGCCCTTCTGCTGTGGCTGTTTTGAGTCTCTATGCGGAGTACTGTGAAACCTGTGGGAAACA
 TATTGGTGTGGACCATGCACAGATGACCTATGACGGGCAGCACTGGCACGCCACGGAAGCCTGCTTTTCT
 TGTGCCAGTGTAAAGCCTCTTTGTTGGGATGTCCCTTCCCAAACAGGGTCAAGTTACTGCTCAA
 AAACGTGCAGTCTTGGTGAAGACGTCCATGCCTCTGATTCTTCCGACTCTGCATTTCACTCAGCTCGATC
 AAGAGACTCCCGAAGAAGTGTCCGAATGGGCAAGAGCAGCCGGTCAAGCAGATCAGTGTAGACAGTCTCTC
 CTCTTATCGCCTGCTCTGAACAACAAGTTTCTGGCCTCTCAGGCAATGCTGATGACACCCTTTCTCGAA
 AATTGGATGATCGAGTCTCCAGACAAGGAACAAGTTTTGCCAGTGAAGAATTTTGGAAAGCCAGAT
 AGAGCAGGAAACTCCAGAAGACCCTGAAGAATGGGCTGATCATGAAGATTATATGACGCAGCTCCTCCTC
 AAGTTTGGTGATAAAAAGCCTCTTTCAGCCACAGCCCAATGAGATGGATATTTCGAGCCAGTGAAGTCTGGA
 TATCTGATAACATGGTTAAAAGTAAAGCCGAGTTAAAGCAAAAATAACCAGAGCCTTGCAAGTAAAAAATA
 CCAGTCTGATATGTACTGGGCACAGTCAACAAGATGGACTGGGCGATTCTGCTTATGGCAGCCACCCAGGC
 CCTGCAAGCAGTAGAAGGCTTCAGGAATTGGAAGTGGACCATGGGCTTCCAGGTATAATCATGATGAAA
 CACAGTGGTATGAAGATCCCTGGAGTGTCTGTCAGACCTGAAACCAGAGCAAAGTTCGGGATTCGAT
 GGATTCTTTGGCATTGTCCAATATCACAGGGGCTTCGGTGGATGGAGAAAACAAGCCAAGGCCATCATTG
 TATTCTCTGCAAAATTTGAGGAGATGGAAACAGAAGATTGTGAGAAGATGAGCAATATGGGAACCTTGA
 ACTCTTCCATGCTGCACAGGAGTGCAGAGTCTTAAAGAGTCTAAGTTCAGAGTTGTGTCCAGAGAAAAAT
 CCTGCCTGAAGAGAAGCCAGTACATCTGCCAGTGTCTCAGAAGGTCCAAGTCTCAATCCAGACCCAGCAG
 GTCAAGTTCTCCGATGATGTCATTGACAATGGGAATATGACATTGAAATCCGGCAGCCTCCGATGAGTG
 AAAGGACTCGGAGACGCTTACAATTTGAGAGAGGGGATCCAGGTCTCATCACCACCGCCCGCCGGAG
 AAGTAGAAAGTCCCGCTCCGACAATGCCCTGAATCTTGTACAGAAAGAAAAATACTCTCCAAGGACAGA
 CTGCGGCTGTACACCCCGATAACTATGAGAAATTTATACAGAATAAAAGTGCACGAGATCCAAGCAT
 ACATCCAGAATGCTGATCTACGGACAGTACGCCATGCCACTCCCGATTATGGCCTGCAGAACCCAGG
 AATGAATCGGTTTCTGGACTCTACGGCAGGATGATGATTCTGGTGTCTTCTCTCTCTCTCTCTCTCTCT
 GACTCGGAAGAAGAAGGATATTTTCTGGACAACCAATCCCTCAACCCCGCCACAGAGATTTTGCCTACT
 ATACAGATGACCTTTCTAGTCCACCATCTGCACTTCCCACCCCTCAGTTTGGTCCAGAGGACAACAAAATC
 CAAGAAGAAAAAGGGACACAAGGGCAAAAATTGTATTATTCT

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG223861 representing NM_153026
 Red=Cloning site Green=Tags(s)

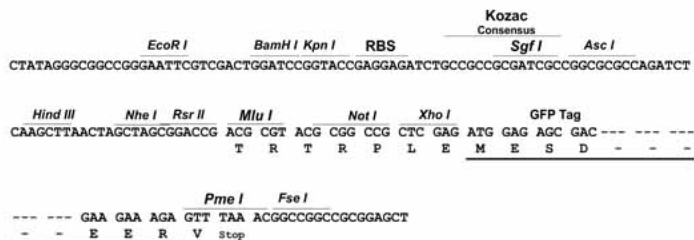
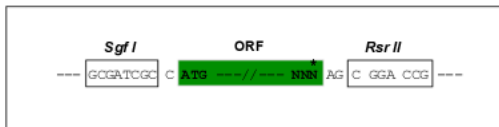
MPLMEPKMSKLAFGCQRSSTSDDDSGCALEEYAWVPPGLRPEQIQLYFACLPEEKVPYVNSPGEKHKRIK
 QLLYQLPPHDNEVRYCQSLSEEEKKELQVFSQRKKEALGRGTIKLLSRAVMHAVCEQCGLKINGGEVAV
 FASRAGPGVCWHPSCFVCFNELLVDLIYFYQDGKIHCGRHHAEELLKPRCSACDEIIFADECTEAEGRH
 WHMKHFCCLECEETVLGGQRYIMKDGRPFCCGCFESLYAEYCETCGEHIGVDHAQMTYDGGQHWATEACFS
 CAQCKASLLGCPFLPKQGQIYCSKTCSLGEDVHASDSSDAFQSARSRDSRRSVRMGKSSRSADQCRQSL
 LLSPALNYKFPGLSGNADDTLSRKLDDLSDLRQGTSFASEEFWKGRVEQETPEDPEEWADHEDYMTQLLL
 KFGDKSLFQPQPNEMDIRASEHWISDNMVKSKTELKQNNQSLASKKYQSDMYWAQSQDGLGDSAYGSHPG
 PASSRRLQELEDHGASGYNHDETQWYEDSLECLSDLKPEQSVRDSMDSLALSNITGASVDGENKPRPSL
 YSLQNFEEMETEDCEKMSNMGTLNSSMLHRSAESLKSLSSELCEKILPEEKPVHLPVLRRSKKSQSRPQQ
 VKFSDDIVDNGNYDIEIRQPPMSERTRRRVYNFEERGSRSHHRRRRSRKSRSDNALNLVTERKYSKDR
 LRLYTPDNYEKFIQNKSAIEIQAYIQNADLYGQYAHATPDYGLQNPGMNRFGLYGEDDDSWCSSSSSSSS
 DSEEEGYFLGQPIQPRPQRFAYYTDDLSSPPSALPTPQFGQRTTKSKKKKGHKGNKNCIIS

SGPTRRRLE - GFP Tag - V

Restriction Sites: Sgfl-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



- ACCN:** NM_153026
- 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_153026.1](#), [NP_694571.1](#)

RefSeq Size: 3293 bp

RefSeq ORF: 2496 bp

Locus ID: 144165

UniProt ID: [Q96MT3](#)

Cytogenetics: 12q12

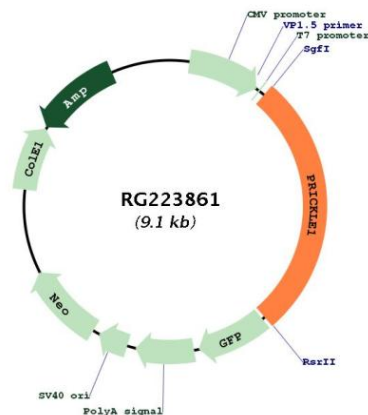
Domains: LIM

Protein Families: Druggable Genome

Protein Pathways: Wnt signaling pathway

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 RG223861