

Product datasheet for **RG219763**

Prickle 2 (PRICKLE2) (NM_198859) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prickle 2 (PRICKLE2) (NM_198859) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Prickle 2
Synonyms:	EPM5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219763 representing NM_198859
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGACAGTGTGCCGCTGGAGATGGAGAAGACCATCAGCAAACCTCATGTTTGACTTTTCAGAGGAACT
 CGACCTCAGATGATGACTCAGGCTGTGCTTTGGAAGAGTATGCCTGGGTCCC GCCGGTCTGAAGCCTGA
 ACAGGTACACCAGTACTATAGCTGTCTCCAGAAAGAGAAAAGTCCCTTATGTCAACAGTCTGGAGAGAAA
 CTGCGAATCAAGCAGCTACTACACCAGCTGCCGCCACATGACAATGAGGTTTCGATATTGCAACTCCCTGG
 ATGAGGAAGAGAAGAGGGAGCTGAAGCTTTTCAGCAGCCAGAGGAAACCGGAAAACCTGGGCCGCGGAA
 TGTGAGGCTTTCCAGTACCATGACAGGAGCTATTTGTGAACAGTGGGAGGCCAGATCAATGGTGGA
 GACATCGTGTGTTTGCCTCACGCGTGGCCACGGCGTTTGTGGCACCCGCGTCTTCGTATGCACTG
 TCTGCAATGAGCTCCTGGTGGATCTGATCTACTTTTACCAAGATGGGAAGATACTGTGGCAGGCACCA
 TGCTGAGTGCCTGAAGCCGCGTGTGCTGCCTGCGATGAGATCATCTTTCAGATGAATGCACAGAAGCT
 GAGGGGCGACACTGGCACATGAAACACTTTTGTGCTTCGAGTGTGAGACAGTGTGGGCCGCGCAGCGCT
 ACATCATGAAGGAGGGAAGACCCTACTGTTGCCACTGCTTCGAGTCTTGTATGCAGAATATTGTGACAC
 CTGTGCCCAACATATAGGTATCGACCAAGTCAAATGACCTATGACGGCCAACTGGCATGCCACTGAG
 ACCTGTTTCTGTGTGCTCACTGCAAGAAATCCCTCCTGGGGCGGCCATTCTCCCGAAGCAGGGCCAGA
 TATTCTGCTCACGGGCTGCAGTGTGGGGAAGACCCCAATGGTCTGACTCCTCTGATTCGGCCTTCCA
 GAACGCCAGGGCAAGGAGTCCCGGCGCAGTGCCAAAATGGCAAGAACAAGGGCAAGACGGAGGAGCCC
 ATGCTGAACCAGCACAGCCAGCTGCAAGTGAGTTCTAACCGGCTGTCAGCCGACGTAGACCCCTGTAC
 TGCATGGACATGCTCAGCCTGTCCAGCCAGACCCAGCCTCAACCGGGACCCCATCTGGAGAGCCCG
 GGAAGAGCCCTACCATTATGGGAACAAGATGGAGCAGAACCAGACCCAGAGCCCTCTGCAGCTCCTCAGC
 CAGTGCAACATCAGAACTTCTACAGTCCAGGAGGCAAGGGGCTGGGGCCAGCCGAAATGTGGGGCA
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 CCACTCAGCAGTGTGGACCCGTATCCCATCAGTTCCTGAAATACACAGAGGACATGACGCCACAGA
 GCAGACCCCTCGGGGCTCCATGGAATCCCTGGCCCTGTCTAATGCAACAGGCCTCTCTGCTGATGGTGGT
 GCCAAGCGCCAGGAGCACCTATCCCGATTTTCCATGCCTGACCTCAGCAAAGACTCTGGAATGAATGTGT
 CTGAGAAGCTGAGCAACATGGGCACTTTAACTCGTCCATGCAGTTCGGAGCGCAGAGTCAGTTTCGAG
 CCTGCTCTCTGCCAGCAGTACCAGGAGATGGAGGAAACCTCCACCAGCTCAGCAACCCCAATTGGCTAC
 AGAGACCTGCAGTCCCACGGAAGGATGCATCAGAGCTTTGATTTTGATGGAGGGATGGCGGGCAGCAAGC
 TGCCAGGGCAGGAGGGCGTGAGGATCCAGCCATGAGTGAACGCACCCGAGAAGAGCTACTTCACGCGA
 CGACAACCGCCGTTTCCGACCTCACAGTCCAGGCGTTCGACGCTCTCGCTCCGACAACGCCCTCCAC
 CTGGCCAGCGAACGCGAGGCCATCTCCCGTTAAAAGATAGGCCCCCTCTGAGAGCCAGGGAGGACTATG
 ACCAATTTATGCCCAGCGGAGCTTCCAGGAGAGCATGGGGCATGGTCCCGAGGGACCTGTACGGCCA
 GTGCCCTAGGACTGTGTCGGACCTGGCTTTCAGAAATGCCTTTGGGGACCCTGGGGACCCCTACTTCGCC
 GAGTATGATTGGTGTCCACCTGCTCCTCTCAGAGTCTGACAACGAGGGCTATTTCCCTAGGAGAAC
 CCATCCCCAGCCAGCGCCTGCGATACGTACAAGCGATGAGCTGCTGCACAAATACAGCTCCTACGG
 CCTCCCCAAATCTTCCACATTAGGTGGCAGAGGACAGTTGCACAGCAGGAAAAGACAGAAGGCAAAAAC
 TGTATCATTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219763 representing NM_198859
Red=Cloning site Green=Tags(s)

MVTVMPLMEKTIKSLMFDQFNSTSDDDSGCALEEYAWVPPGLKPEQVHQYYSCLPPEKVPYVNSPGEK
LRIKQLLHQLPPHDNEVRYCNSLDEEEKRELKLFSSQRKRENLRGNVVRPFVMTGAICEQCGGQINGG
DIAVFASRAGHGVCWHPPCFVCTVCNELLVDLIYFYQDGKIYCGRHHAELKPRCAACDEIIFADECTEA
EGRHWHMKHFCFCFECETVLGGQRYIMKEGRPYCCHCFESLYAEYCDTCAQHIGIDQGQMTYDQHWATE
TCFCCAHCCKSLLGRPFLPKQGQIFCSRACSAAGEDPNGSDSDSAFQNAKESRRSAKIGKNKGKTEEP
MLNQHSQLQVSSNRLSADVDPVLSLQMDMLSLSSQTPSLNRDPIWRSREEPYHYGNKMEQNQTQSPLQLLS
QCNIRTSYSPGGQGAGAQPEMWGKHFSNPKRSSSLAMTGHAGSFIKECREDYYPGRRLRSQESYSDMSSQS
FSETRGSIQVPKYEEEEEEGGLSTQQCRTRHPISLKYTEDMTPTEQTPRGSMESLALSATGLSADGG
AKRQEHLSRFSMPDLKDSGMNVSEKLSNMGTLNSSMQFRSAESVRSLLSAQQYQEMEGNLHQLSNPIGY
RDLQSHGRMHQSFDFDGGMAGSKLPGQEGVRIQPMSERTRRRATSRDDNRRFRPHRSRRRSRSDNALH
LASEREAISRLKDRPPLRAREYDQFMQRQSFQESMGHGSRRDLYGQCPRTVSDLALQNAFGDRWGPYFA
EYDWCSTCSSSESDNEGYFLGEPQPAPRLRYVTSDELLHKYSSYGLPKSSTLGGRGQLHSRKRQKSKN
CIIS

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

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_198859.2](#)

RefSeq Size: 8318 bp

RefSeq ORF: 2535 bp

Locus ID: 166336

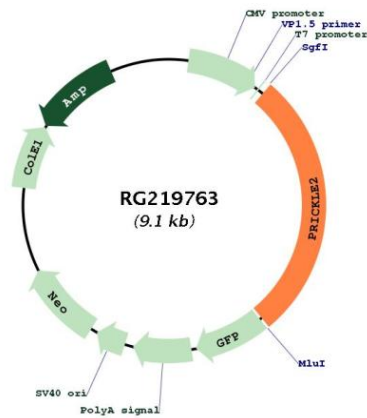
UniProt ID: [Q7Z3G6](#)

Cytogenetics: 3p14.1

Protein Pathways: Wnt signaling pathway

Gene Summary: This gene encodes a homolog of *Drosophila* prickle. The exact function of this gene is not known, however, studies in mice suggest that it may be involved in seizure prevention. Mutations in this gene are associated with progressive myoclonic epilepsy type 5. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RG219763