

Product datasheet for **RC219763**

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:	Myc-DDK
Symbol:	Prickle 2
Synonyms:	EPM5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RC219763 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGACAGTGTGCCGCTGGAGATGGAGAAGACCATCAGCAAACCTCATGTTTGACTTTTCAGAGGAACT
 CGACCTCAGATGATGACTCAGGCTGTGCTTTGGAAGAGTATGCCTGGGTCCCGCCGGTCTGAAGCCTGA
 ACAGGTACACCAGTACTATAGCTGTCTCCAGAAAGAGAAAAGTCCCTTATGTCAACAGTCTGGAGAGAAA
 CTGCGAATCAAGCAGCTACTACACCAGCTGCCGCCACATGACAATGAGGTTTCGATATTGCAACTCCCTGG
 ATGAGGAAGAGAAGAGGGAGCTGAAGCTTTTCAGCAGCCAGAGGAAACGCGAAAACCTGGGCCGCGGAA
 TGTGAGGCTTTCCAGTACCATGACAGGAGCTATTTGTGAACAGTGGGAGGCCAGATCAATGGTGGA
 GACATCGTGTGTTGCGTCACGCGCTGGCCACGGCGTTTGTGGCACCCGCGTCTCGTATGCACTG
 TCTGCAATGAGCTCCTGGTGGATCTGATCTACTTTTACCAAGATGGGAAGATACTGTGGCAGGCACCA
 TGCTGAGTGCCTGAAGCCGCGCTGTGCTGCCTGCGATGAGATCATCTTTCAGATGAATGCACAGAAGCT
 GAGGGGCGACACTGGCACATGAAACACTTTTGTGCTTCGAGTGTGAGACAGTGTGGGGCGCCAGCGCT
 ACATCATGAAGGAGGGAAGACCCTACTGTTGCCACTGCTTCGAGTCTTGTATGCAGAATATTGTGACAC
 CTGTGCCAACATATAGGTATCGACCAAGGTCAAATGACCTATGACGGCCAACTGGCATGCCACTGAG
 ACCTGTTTCTGTGTGCTCACTGCAAGAAATCCCTCCTGGGGCGGCCATTCTCCCGAAGCAGGGCCAGA
 TATTCTGCTCACGGGCTGCAGTGTGGGAAGACCCCAATGGTCTGACTCCTCTGATTCGGCCTTCCA
 GAACGCCAGGGCAAGGAGTCCCGGCGCAGTGCCAAAATGGCAAGAACAAGGGCAAGACGGAGGAGCCC
 ATGCTGAACCAGCACAGCCAGCTGCAAGTGAGTTCTAACCGGCTGTGAGCCGACGTAGACCCCTGTGAC
 TGCATGGACATGCTCAGCCTGTCCAGCCAGACACCCAGCCTCAACCGGGACCCCATCTGGAGAGCCCG
 GGAAGAGCCCTACCATTATGGGAACAAGATGGAGCAGAACCAGACCCAGAGCCCTCTGCAGCTCCTCAGC
 CAGTGCAACATCAGAACTTCTACAGTCCAGGAGGCAAGGGGCTGGGGCCAGCCGAAATGTGGGGCA
 AGCACTTCAGCAACCCCAAAAGGAGCTCGTCACTGGCCATGACAGGACATGCTGGCAGCTTCATCAAGGA
 ATGCCGAGAAGACTATTACCCGGGGAGGCTGAGATCTCAGGAGAGCTACAGTGATATGTCTAGTCAGAGT
 TTCAGTGAGACCCGAGGCAGCATCCAAGTCCCAAAATAGAGGAGGAAGAGGAAGAGGAAGGGGGCTTGT
 CCACTCAGCAGTGTGGACCCGTATCCCATCAGTTCCTGAAATACACAGAGGACATGACGCCACAGA
 GCAGACCCCTCGGGCTCCATGGAATCCCTGGCCCTGTCTAATGCAACAGGCCTCTGTGATGGTGGT
 GCCAAGCGCCAGGAGCACCTATCCCGATTTTCCATGCCTGACCTCAGCAAAGACTCTGGAATGAATGTGT
 CTGAGAAGCTGAGCAACATGGGCACTTTAACTCGTCCATGCAGTTCGGAGCGCAGAGTCAGTTCGCAG
 CCTGCTCTGCCCAGCAGTACCAGGAGATGGAGGGAAACCTCCACCAGCTCAGCAACCCCAATTGGCTAC
 AGAGACCTGCAGTCCCACGGAAGGATGCATCAGAGCTTTGATTTTGATGGAGGGATGGCGGGCAGCAAGC
 TGCCAGGGCAGGAGGGCGTGAGGATCCAGCCATGAGTGAACGCACCCGAGAAGAGTACTTCACGCGA
 CGACAACCGCCGTTTCCGACCTCACAGTCCAGGCGTCCCGACGCTCTCGTCCGACAACGCCCTCCAC
 CTGGCCAGCGAACGCGAGGCCATCTCCCGTTAAAAGATAGGCCCCCTCTGAGAGCCAGGGAGGACTATG
 ACCAATTTATGCCCAGCGGAGCTTCCAGGAGAGCATGGGGCATGGTCCCGAGGGACCTGTACGGCCA
 GTGCCCTAGGACTGTGTCGGACCTGGCTTTGCAGAATGCCTTTGGGGACCCTGGGGACCCCTACTCGCC
 GAGTATGATTGGTGTCCACCTGCTCCTCTTCAGAGTCTGACAACGAGGGCTATTTCCTAGGAGAAC
 CCATCCCCAGCCAGCGCCTGCGATACGTCACAAGCGATGAGCTGCTGCACAAATACAGCTCCTACGG
 CCTCCCCAAATCTCCACATTAGGTGGCAGAGGACAGTTGCACAGCAGGAAAAGACAGAAGAGCAAAAAC
 TGTATCATTTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC219763 protein sequence
 Red=Cloning site Green=Tags(s)

MVTVMPLMEKTI SKLMFDFQRNSTSDDSGCALEEYAWVPPGLKPEQVHQYYSCLPEEKVPYVNSPGEK
 LRIKQLLHQLPPHDNEVRYCNSLDEEEKRELKLFSSQRKRENLGRGNVRPFPVTMTGAICEQCGGQINGG
 DIAVFASRAGHGVCWHPFCFVCTVCNELLDLIYFYQDGKIYCGRHHAECLKPRCAACDEIIFADECTEA
 EGRHWHMKHFCFECETVLGGQRYIMKEGRPYCCHCFESLYAEYCDTCAQHIGIDQGQMTYDQGHWHATE
 TCFCCAHCCKSLLLGRPFLPKQGGIFCSRACSAGEDPNGSDSDSAFQNAKAKESRRSAKIGKNKGKTEEP
 MLNQHSQLQVSSNRLSADVDP LSLQMDMLSLSSQTPSLNRDPIWRSREEPYHYGNKMEQNQTQSPLQLLS
 QCNIRTSYSPGGQGAGAPPEMWGKHFSNPKRSSLAMTGHAGSF IKECREDYYPGR LRSQESYSDMSSQS
 FSETRGSIQVPKYE EEEEEEGGLSTQQCRTRHPISLKYTEDMTPTQTTPRGSMESLALS NATGLSADGG
 AKRQEHL SRF SMPDL SKDSGMNVSEKLSNMGTLNSSMQFRSAESVRSLLSAQQYQEMEGNLHQLSNPIGY
 RDLQSHGRMHQSFDGGMAGSKLPGQEGVRIQPMSERTRRRATSRDDNRRFRPHRSRRRSRSDNALH
 LASEREATISRLKDRPPLRAREYDQFMQRSFQESMGGHGSRRDLYGQCPRTVSDLALQNAFGDRWGPYFA
 EYDWCSTCSSSESDNEGYFLGEPQPAPRLRYVTSDELLHKYSSYGLPKSSTLGGRGQLHSRKRQKSKN
 CIIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6444_c08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

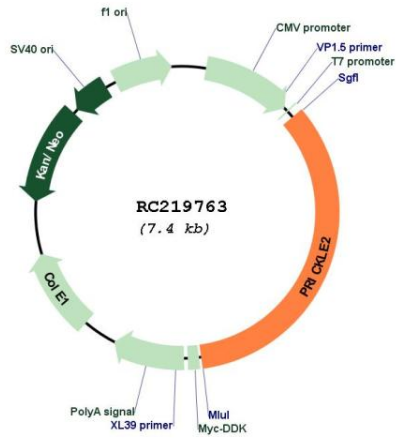
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_198859
ORF Size:	2532 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:	<ol style="list-style-type: none">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:	8322 bp
RefSeq ORF:	2535 bp
Locus ID:	166336
UniProt ID:	Q7Z3G6
Cytogenetics:	3p14.1
Protein Pathways:	Wnt signaling pathway
MW:	95.6 kDa
Gene Summary:	This gene encodes a homolog of <i>Drosophila</i> 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 RC219763