

Product datasheet for **MR217339**

Prickle1 (NM_001033217) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Prickle1 (NM_001033217) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Prickle1
Synonyms:	1110058P22Rik; AW215793; b2b019Clo; mpk1; Prickle
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR217339 representing NM_001033217
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCTTTGGAGATGGAACCGAAAAATGAGCAAAGTGGTCTTCGGGTGCCAGAGAAGCTCCACATCAGATG
 ATGATTCGGGCTGTGCACTTGAAGAGTATGCATGGGTCCCACCGGCCTCAGGCCGAGCAGATCCAGCT
 CTATTTTCGCATGCTTGCAGAGGAAAAGTTCTTATGTTAACAGCCCTGGGGAGAAAACACAGGATTA
 CAGCTCCTGTACCAAGTTCCTCCACACGATAACGAGGTGCGGTAAGTCCAGTCTTTGAGCGAAGAAGAGA
 AGAAGGAGCTGCAGGTGTTCAAGTCTCAGAGGAAGAAAGAGCTCTGGGAGAGGAACCACTCAAAGTCTT
 GTCCAGAGCTGTGATGCACGCCGTGTGTGAGCAGTGTGGGCTGCAGATGAATGGAGGGGAGGTGGCCGTG
 TTCGCTCCCGTGCAGGACCTGGAGTATGCTGGCACCCGCTCTGCTTTGTCTGCTTACGTGTAATGAAC
 TACTGGTCGACCTCATCTATTTCTATCAGGATGGAAAAATCCACTGTGGCAGGCACCACGCTGAAGTCT
 CAAGCCTCGGTGCTCAGCTGTGATGAGATCATTTTTGCTGACGAGTGCACGGAAGCCGAGGGTCCGCAC
 TGGCACATGAAGCATTTCTGCTGTCTGGAATGTGAGACAGTCTGGGAGGGCAGAGATATATCATGAAGG
 ACGGCCGCCCTTCTGCTGTGGCTGCTTCGAGTCTCTACGCTGAGTACTGCGAAACCTGTGGGGAGCA
 TATTGGTGTGGACCACGCACAGATGACCTACGACGGGCAGCACTGGCACGCCACAGAGGCCCTGCTTTTCC
 TGTGGCAGTGTAAAGCCCTGTTGCTGGGATGCCCTTCTCCGAAACAAGGTGAGATTTACTGCTCCA
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 CAGAGACTCTCGCAGGAGCGTGAGGATGGGCAGAAAGCAGCCGCTCCGCCAGCAGTGCAGCAGTCTTT
 CTCTTGTCTCCCGCCTGAACTACAAGTCCCGGGTCTCTCCGCAACGCTGACGACACCCCTTCCCGGA
 AGCTGGATGACGTGAGCCTCGCCAGCAGGAGGAGCAGGTTTCGCTAACGAGGAATTCGAAAGCCAG
 AGTGGAGCAGGAAGCCTCCGAAGACCCGAAGAATGGGCTGAGCATGAAGATTATGACGCAGTCTCTC
 CTCAAGTTCGGCGACAAAAACCTTCCAGCAGCAGAGCAGCAGGTTGGATCCGAGAGCCAGCGAGCACT
 GGATACCCGACAACATGTTACGAATAAGCCCGAGGTAAGCCGAATCACCAGGGCCTCGCGAGTAAAAA
 GTATCAGTCTGATATGTACTGGGCCAGTCCCAAGACGGGCTGGGTGACTCTGCCTACGGCAGCCATCCA
 GGCCCCGCCAGCAGCCGAGGCTGCAAGAGCTAGATCTGGACCAGGTGCTGCGGGATATACTCATGACC
 AAAGCCAGTGGTATGAAGACTCCCTGGAGTGTCTATCTGACTTGAACCAGAACAGAGTATCCGGGATTC
 TATGGATTCCTTGGCGTTGTCCAACATCACAGGGCATCAGTGGATGGAGAAAGCAAGCCAAGCCGTC
 TTATATCTCTCCAAAACCTTGGAGAGATAGAGGCAGAAGATTGTGAGAAAATGAGCAATATGGAACTC
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 CAGGTCAAATTTTTCAGATGACGTCATTGACAACGGAAGCTACGACATCGAAATCCGGCAGCCTCCCATGA
 GCGAACGGACTCGGAGACGGGCGTATCACTTTGAAGAGAGGGGATCCAGGCCCTACCACCATCGCCACCG
 GAGAAGCAGAAAGTCTCGGTCCGACAACGCCCTGAACCTGGTACGGAAGGAAGTACTCCGCCAAGGAC
 AGACTTCGGCTGTACACCCCGATAACTATGAGAAATTCATACAGAATAAAAGCGCCCGGGAGCTCCAAG
 CCTACATGCAGAACGCCAACCTTATAGCCAGTATGCCATGCCAGTCTGATTACGCCCTGCAGAACCC
 AGGGATGAACCGGTTTCTGGGGCTCTGCGGCGAGGACGACGACTCGTGGTGTTCGCTCCACGCTCTCC
 TCCGACTCAGAAGAAGAAGGCTATTTCTTGGCCAGCCGATCCCTCAGCCACGGCCACAGAGATTACCT
 ACTATACAGATGACCTTTCTAGCCCGGCTTCCGCACTGCCACCCACAGTTTACTCAGAGGACAACCTAA
 ATCCAAGAAGAAAAAGGACACAAGGGCAAAAACCTGTATCATTTCT

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR217339 representing NM_001033217
Red=Cloning site Green=Tags(s)

MPLMEPKMSKLVFGCQRSSTSDDDSGCALEEYAWVPPGLRPEQIQLYFACLPEEKVPYVNSPGEKHKRIK
QLLYQLPPHDNEVRYCQSLSEEEKKELQVFSQRKKEALGRGTIKLLSRAVMHAVCEQCGLQMGGEVAV
FASRAGPGVCWHPSCFVCFNELLVDLIYFYQDGKIHCGRHHAEELLKPRCSACDEIIFADECTEAEGRH
WHMKHFCCLECETVLGGQRYIMKDGRPFCCGCFESLYAEYCETCGEHIGVDHAQMTYDGGHWHATEACFS
CAQCKASLLGCPFLPKQGQIYCSKTCSLGEDIHASDSSSAFQSARSRDSRRSVRMGRSSRSADQCRQSL
LLSPALNYKFPGLSGNADDTLSRKLDVSLASRQGAGFANEFFWKARVEQEASEDPPEEWAHEDYMTQLL
LKFGDKNLFQQQSSEVDPRASEHWIPDNMVTNKPEVKPNHQGLASKKYQSDMYWAQSQDGLGDSAYGSH
GPASSRRLQELDLDHGAAGYTHDQSQWYEDSLECLSDLKPEQSIKRDMSLALSNITGASVDGESKPRPS
LYSLQNFEEIEAEDCEKMSNMGTLNSSMLHRSAESLQSLNSGLCPEKILPEEKPAHLPVLRRSKSQSRPQ
QVKFSDDIVDNGSYDIEIRQPPMSERTRRRAYHFEERGSRPHHRRHRSRKSRSNDALNLVTERKYSKD
RLRLYTPDNYEKFIQNKSARELQAYMQNANLYSQYAHATSDYALQNPGMNRFGLGCGEDDSDWSSSTSS
SDSEEEGYFLGQPIQPRPQRFYYTDDLSSPASALPTPQFTQRTTKSKKKKGKHKNCIIS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9048_b06.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001033217

ORF Size: 2496 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_001033217.5](#)

RefSeq Size: 4085 bp

RefSeq ORF: 2499 bp

Locus ID: 106042

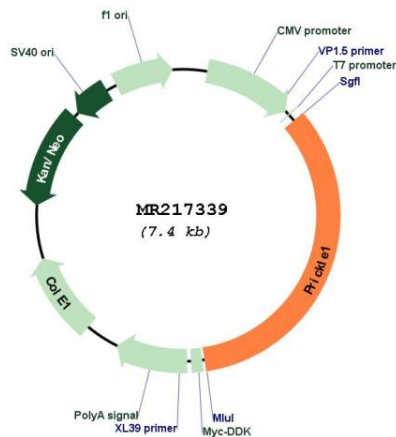
UniProt ID: [Q3U5C7](#)

Cytogenetics: 15 E3

MW: 94.6 kDa

Gene Summary: Involved in the planar cell polarity pathway that controls convergent extension during gastrulation and neural tube closure (By similarity). Convergent extension is a complex morphogenetic process during which cells elongate, move mediolaterally, and intercalate between neighboring cells, leading to convergence toward the mediolateral axis and extension along the anteroposterior axis. Necessary for nuclear localization of REST. May serve as nuclear receptor (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217339