

## Product datasheet for **MC228509**

### Prickle3 (NM\_001290624) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Prickle3 (NM_001290624) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Prickle3
Synonyms:	Lmo6; Pk3; Sfc16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC228509 representing NM\_001290624  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTTTCGCGCTGGGTCCTCCGGAGGCGCCGCTCTGGGCGTGCGCTCCAGAGGCAGAGACCCTGCCCGG  
 GCCAGCCTTGCAATTCCTGCAGGGAACAGTGCCAGGCTTCTGCTGCATGGCTGGAGAAAGATCTGCCA  
 GCACTGCAAAATGCCCGGGAGGAGCATGCTGTACGCACTGTACCTGTGGACCTAGAACGCATCATGTGC  
 CGGCTCATCTCAGACTTCCAGCGCCACTCCATTTCCGATGACGACTCAGGCTGTGCCTCAGAGGAGTATG  
 CCTGGGTACCCCTGGCCTTAAGCCGGAGCAGGTTTACCAGTTTTTCAGTTGCCTTCCAGAGGACAAGGT  
 CCCCTATGTCAACAGTCTGGGGAGAAATACAGAATAAAGCAGCTACTGCACCAGCTACCCACACGAC  
 AGTGAGGCACAGTACTGCACGGCCCTGGAAGAGGAGGAGAAGAAAGAGTTGCGAGCCTTCAGCCAGCAGA  
 GGAAGCGGAGAAATCTGGGACGAGCCACCGTTTCAATCTTCCAGTGACCATTACTGGGGCCATCTGCCA  
 GGAGTGTGGCAAGCAGATCGGCGGTGGGACATTGCAGTCTTTCAGCCGCGCAGGCGCTTGGTGCCTGT  
 TGGCACCTCAGTGCTTTGTGTGTACCAGTGCCAGGAGCTGCTGGTTGACCTCATCTACTTCTATCATG  
 CTGGCAAGGTCTACTGTGGGCGCCACCATGCTGAGTGTCTGCGTCTCGCTGCCAAGCGTGTGATGAGAT  
 CATCTTCTCCCCTGAATGTACGGAGGCGGAGGGGCGCACTGGCACATGGGTCACTTCTGCTGTTTCGAG  
 TGTGAAGCTTCGTTAGGAGGGCAGCGCTATGTCATGCGTCAGAGCCGCCCCCACTGCTGTGCCTGCATG  
 AGGCCCGCCATGCGGAATACTGTGATGGCTGTGGGGAACACATCGGCCTGGACCAGGGCCAGATGGCTTA  
 TGAGGGCAACTGGCACGCTTCAGATCGCTGCTTCTGCTGTAGCCGTGCAGTCGACCTTCTTGGGC  
 CGCCCTTCTGCCACGCCGAGGCTGATCTTCTGCTCACGAGCCTGCAGCCTTGGGTCTGAGACCACTG  
 CTCCAGGCGCCGCGCAGCAGCTGGAGCGCCGACCCGTCACCCACCCGCTCACAACTTCTACAGCTTC  
 TTTCTCAGCTACGGAGGGGACATCAGAGACAGCCAGCAAAGGCACCTGTACCAAGGCAGAGCCTGTGCA  
 GGCCCTGAAGAGCCCTCCCACTTCTGAGAGGGGCCCCCACCAGCCATTCTATGCCTGAACTGGGACTCC  
 GCAGTGTCTGAGCCACCCACAGAATCCCCTGGCCATCCTGCCCGCATCCAGATGATAATGCCTTTGG  
 TCGCCAAAGTACACCTCGTGTGACGTTCCGAGACCCTCTGGTGTCTGAAGGAGGTCCACGAAGGACCCTT  
 AGTGCACCTCCAGCCAGCGCCGTAGACCACGAAGTCCCCACCCAGGACCCCACTGCCACCACCACC  
 ACCATCATCGCCCGCGGCCAGCGGCACCGCCGAGGGAGCCACCATCACCACCACCATCCTGGCAG  
 ACATGGCCACCATCGCTGTGACTTGGGATCAGGTTTCAAGTTCAGGATCTTGTCCAGCTCACCTCCAGC  
 CCCAGTTCAGAGTCTTCTGAGGATGATGGCTTCTTCTGGGGAAAGTATCCCACTGCCCCCTCACCTGT  
 GCAGGCCAGGACCACTCAGGACACCTCAACCGAAACCTTAACTCCCCAGCCAGCCACTGTCCAGGA  
 GTCTACCCCGTGATGCCTCGCCAGACCCGGGACAAGAAGTGCATCGTGGCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001290624
- Insert Size:** 1875 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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\\_001290624.1](#), [NP\\_001277553.1](#)

**RefSeq Size:** 2410 bp

**RefSeq ORF:** 1875 bp

**Locus ID:** 54630

**UniProt ID:** [Q80VL3](#)

**Cytogenetics:** X 3.45 cM

**Gene Summary:** Involved in the planar cell polarity (PCP) pathway that is essential for the polarization of epithelial cells during morphogenetic processes, including gastrulation and neurulation (By similarity). PCP is maintained by two molecular modules, the global and the core modules, PRICKLE3 being part of the core module (By similarity). Distinct complexes of the core module segregate to opposite sides of the cell, where they interact with the opposite complex in the neighboring cell at or near the adherents junctions (By similarity). Involved in the organization of the basal body (By similarity). Involved in cilia growth and positioning (By similarity).  
[UniProtKB/Swiss-Prot Function]