

## Product datasheet for **MC228399**

### **Npnt (NM\_001287102) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Npnt (NM_001287102) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Npnt
Synonyms:	1110009H02Rik; AA682063; AI314031; Nctn; POEM
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC228399 representing NM\_001287102  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCTGTGCTCCTAGCGCGGTGCTCGGTCTCGCTCTACCTGCAGGTGGCTGCCGACTTCGACGGGA  
 GGTGGCCAGGCAAATAGTTTCTCAATCGGCCTATGTCGCTATGGAGGCAGATTGACTGCTGCTGGG  
 CTGGGCCCGCCAGTCTGGGACAGTGCCAACCTGTGTGTCAACCACAGTGCAAACACGGAGAGTGCGTC  
 GGGCAAACAAGTGCAAATGTCACCCTGGATTTGCTGGGAAAACCTGCAACCAAGATGAGTCCTTCACC  
 CAACTCCTCTTGACCAAGGCAGTGAACAGCCTCTTTTCCAACCCCGGATCATCAAGCCACAATGTACC  
 TTCAAGGGATTTAAACGAGTGTGGCCTGAAGCCTCGGCCCTGTAAGCACAGGTGCATGAACACTTTCGGC  
 AGCTACAAGTGTACTGTCTCAACGGATACATGCTGCTGCCAGACGGTCTGCTCAAGTGCCTATCGT  
 GTTCCATGGCAAAGTGTAGTATGGCTGTGACGTGGTCAAAGGACAGGTCGGATGTCAAGTGTCCATCCC  
 TGGCCTGCAGTACTCCCGATGGGAGGACCTGTGTGGATATTGATGAATGTGCGACTGGAAGAGTCTCC  
 TGCCTCGATTTAGGCAGTGTGTCAACAGTGGGAGCTACATCTGCAAGTGTCAACTGGTTTCGACC  
 TCATGTACATTGGAGGCAAATATCAGTGCCATGACATCGACGAGTGTCTCTTGGACAGCACCAGTGTAG  
 CAGCTATGCCCGGTGTTACAACATACATGGGTCCTACAAGTGCCAATGTAGAGATGGATACGAGGGGGAT  
 GGACTGAACTGTGTGTATATCCCAAAGTCATGATTGAACCTTCAGGTCGAATCCATATGCCAGAAAAGAA  
 ATGGTACAATCTCAAAGGGTGTGGAGGACATGCGAATAGGATTCCTGATGCTGGAAGTACAAGGTGGCC  
 CCTGAAGACCATATATTCCTCTGTCAATACCAACAGGCCTACTTCCAAGCCAACAACAAGACCTACA  
 CCAAACCAACACCACAGCCTACTCCACCACCTCCACCACCCCTCCGACAGAGCCAGAACAACTCCAC  
 TACCACAACCCAGAAAGGCCATCTACCAGACCACCCTATAGCACCTGTACCAGTACCCTACACG  
 AGTAATTACGGTTGACAACAGGATACAGACGGATCCTCAGAAACCCAGAGGAGATGTGTTTATTCCACGG  
 CAGCCGACAAATGACCTGTTGAGATATTTGAAATCGAAAGAGGGGTGACGCGGGATGAGGAAGTAAAGG  
 ACGACCCAGGTATTCTCATACAGCTGCAATTTTGACCATGGACTCTGTGGATGGATCAGAGAAAAAGA  
 TAGTGACTTGGACTGGGAGACAGCCAGGGACCCAGCAGGTGGACAGTATCTCACAGTGTCTGCAGCCAAA  
 GCCCGGGGGGAAAAGCCGCTCGCTTGGTGTACGTCTCGCCACCTCATGCATTAGGGGACCTGTGCC  
 TGTCTTTAGGCACAAGGTGACTGGGCTGCACTCGGGCACACTGCAGGTGTTTGTAGGAAACACGGTAC  
 CCACGGAGCAGCCCTGTGGGAAGAAATGGTGGCCATGGCTGGAGGCAAACCCAGATCACCTTGCAGGG  
 GCTGACGTCAAAGCGTCATCTTCAAAGGTGAAAAAGGCGTGGTACACGGGGGAGATTGGATTGGATG  
 ATGTGAGCTTGAAGAGGTGCTG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001287102

**Insert Size:** 1779 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\\_001287102.1](#), [NP\\_001274031.1](#)

**RefSeq Size:** 4712 bp

**RefSeq ORF:** 1779 bp

**Locus ID:** 114249

**UniProt ID:** [Q91V88](#)

**Cytogenetics:** 3 G3

**Gene Summary:** Functional ligand of integrin alpha-8/beta-1 in kidney development. Regulates the expression of GDNF with integrin alpha-8/beta-1 which is essential for kidney development. May also play a role in the development and function of various tissues, regulating cell adhesion, spreading and survival through the binding of several integrins.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (4) lacks an in-frame exon in the 5' coding region compared to variant 3. The encoded isoform (d) is shorter than isoform c. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.