

Product datasheet for **MC218928**

Npnt (NM_001029836) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npnt (NM_001029836) 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: >MC218928 representing NM_001029836
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGTGCTCCTAGCGCGGTGCTCGGTCCTCGTCTACCTGCAGGTGGCTGCCGACTTCGACGGGA
 GGTGGCCAGGCAAATAGTTTCTCAATCGGCCTATGTCGCTATGGAGGCAGATTGACTGCTGCTGGGG
 CTGGGCCCGCCAGTCTGGGGACAGTGCCAACCTGTGTGTCAACCACAGTGCAAACACGGAGAGTGCCTC
 GGGCAAACAAGTGCAAATGTCACCCTGGATTTGCTGGGAAAACCTGCAACCAAGATTTAAACGAGTGTG
 GCCTGAAGCCTCGGCCCTGAAGCACAGGTGCATGAACACTTTCCGGCAGCTACAAGTGTACTGTCTCAA
 CGGATACATGCTGCTGCCAGACGGGTCTGCTCAAGTGCCTATCGTGTCCATGGCAAACCTGTCAGTAT
 GGCTGTGACGTGGTCAAAGGACAGGTCCGATGTCAGTGTCCATCCCTGGCTGCAGCTAGCTCCCGATG
 GGAGGACCTGTGGATATTGATGAATGTGCGACTGGAAGAGTCTCTGCCCTCGATTTAGGCAGTGTGT
 CAACACGTTTGGGAGCTACATCTGCAAGTGTCACTGGTTTCGACCTCATGTACATTGGAGGCAAATAT
 CAGTGCCATGACATCGACGAGTGTCTCTTGGACAGCACCAGTGTAGCAGCTATGCCCGGTGTACAACA
 TACATGGTCTTACAAGTGCCAATGTAGAGATGGATACGAGGGGGATGGACTGAACTGTGTGTATATCCC
 CAAAGTCATGATTGAACCTTCAGGTCCAATCCATATGCCAGAAAGAAATGGTACAATCTCAAAGGGTGT
 GGAGGACATGCGAATAGGATTCCTGATGCTGGAAGTACAAGGTGGCCCTGAAGACACCATATATTCCTC
 CTGTCAATTACCAACAGGCCTACTTCCAAGCCAACAACAAGACCTACACCAAAACCCACACAGCCTAC
 TCCACCACCTCCACCACCCTCCCGACAGAGCCCAGAACAACCTCACTACCACCAACCCAGAAAGGCCA
 TCTACCAGACCCACCCTATAGCACCTGCTACCACTACACGAGTAATTACGTTGACAACAGGA
 TACAGACGGATCCTCAGAAACCCAGAGGAGATGTGTTCAATCCACGGCAGCCGACAAATGACCTGTTTGA
 GATATTTGAAATCGAAAGAGGGGTGAGCGGGATGAGGAAGTAAAGGACGACCCAGGTATTCTCATACAC
 AGCTGCAATTTTACCATTGGACTCTGTGGATGGATCAGAGAAAAAGATAGTACTTGCAGTGGGAGACAG
 CCAGGGACCCAGCAGGTGGACAGTATCTCACAGTGTCTGCAGCCAAAGCCCGGGGGGAAAAGCCGCTCG
 CTTGGTGTACGTCTCGGCCACCTCATGCATTACGGGGACCTGTGCCTGTCTTTAGGCACAAGGTGACT
 GGGCTGCAGTCCGGCACACTGCAGGTGTTTGTGAGGAAACACGGTACCCACGGAGCAGCCCTGTGGGAA
 GAAATGGTGGCCATGGCTGGAGGCAAACCCAGATCACCTTGCAGGGGCTGACGTCAAAGCGTCATCTT
 CAAAGGTGAAAAAGCGTGGTACACGGGGGAGATTGGATTGGATGATGTGAGCTTAAAAAGAGGTGCG
 TGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001029836

Insert Size: 1686 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).

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_001029836.2](#), [NP_001025007.1](#)

RefSeq Size: 4619 bp

RefSeq ORF: 1686 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 (2) lacks two in-frame exons in the 5' coding region compared to variant 3. The encoded isoform (b) 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.