

Product datasheet for **MC227791**

Npnt (NM_001287103) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npnt (NM_001287103) 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: >MC227791 representing NM_001287103
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACACTTTTCGGCAGCTACAAGTGCTACTGTCTCAACGGATACATGCTGCTGCCAGACGGGTCCTGCT
 CAAGTGCCCTATCGTGTCCATGGCAAACCTGTCAGTATGGCTGTGACGTGGTCAAAGGACAGGTCCGATG
 TCAGTGTCCATCCCTGGCTGCAGCTAGCTCCCGATGGGAGGACCTGTGTGGATATTGATGAATGTGCG
 ACTGGAAGAGTCTCCTGCCCTCGATTTAGGCAGTGTGTCAACACGTTTGGGAGCTACATCTGCAAGTGTC
 ACACTGGTTTCGACCTCATGTACATTGGAGGCAAATATCAGTGCCATGACATCGACGAGTCTCTTTGG
 ACAGCACCAGTGTAGCAGCTATGCCGGTGTACAACATACATGGGTCTACAAGTGCCAATGTAGAGAT
 GGATACGAGGGGGATGGACTGAACTGTGTATATCCCCAAAGTCATGATTGAACCTTCAGGTCCAATCC
 ATATGCCAGAAAGAAATGGTACAATCTCAAAGGGTGTGGAGGACATGCCAATAGGATTCCTGATGCTGG
 AAGTACAAGTGGCCCTGAAGACACCATATTCCTCCTGTCTTACCAACAGGCCTACTTCCAAGCCA
 ACAACAAGACCTACACCAAACCCAAACACCACAGCCTACTCCACCACCTCCACCACCCTCCCGACAGAGC
 CCAGAACAACCTCACTACCACCAAACCCAGAAAGGCCATCTACCAGACCCACCACTATAGCACCTGCTAC
 CAGTACCCTACACGAGTAATTACGGTTGACAACAGGATACAGACGGATCCTCAGAAACCCAGAGGAGAT
 GTGTTTATTCCACGGCAGCCGACAAATGACCTGTTTGAGATATTTGAAATCGAAAGAGGGGTGAGCGCGG
 ATGAGGAAGTAAAGGACGACCCAGGTATTCTCATAACAGCTGCAATTTTGACCATGGACTCTGTGGATG
 GATCAGAGAAAAAGATAGTGACTTGCACTGGGAGACAGCCAGGGACCCAGCAGGTGGACAGTATCTCACA
 GTGTCTGCAGCCAAAGCCCGGGGGGAAAAGCCGCTCGCTTGGTGTACGTCTCGGCCACCTCATGCATT
 CAGGGGACCTGTGCCTGTCTTTAGGCACAAGGTGACTGGGCTGCACTCGGGCACACTGCAGGTGTTTGT
 GAGGAAACACGGTACCCACGGAGCAGCCCTGTGGGGAAGAAATGGTGGCCATGGCTGGAGGCAAACCCAG
 ATCACCTTGCAGGGGCTGACGTCAAAGCGTCATCTTCAAAGGTGAAAAAGGCGTGGTACACGGGGG
 AGATTGGATTGGATGATGTGAGCTTGAAGAGGTGCTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_001287103
- Insert Size:** 1374 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:	<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:	<u>NM_001287103.1</u> , <u>NP_001274032.1</u>
RefSeq Size:	4337 bp
RefSeq ORF:	1374 bp
Locus ID:	114249
Cytogenetics:	3 G3
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) contains a distinct 5' UTR and lacks an in-frame portion of the 5' coding region compared to variant 3. The resulting isoform (e) has a shorter N-terminus compared to 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.</p>