

Product datasheet for **MC219216**

Npnt (NM_033525) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npnt (NM_033525) 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: >MC219216 representing NM_033525
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGTGCTCCTAGCGCGGTGCTCGGTCTCGCTCTACCTGCAGGTGGCTGCCGACTTCGACGGGA
 GGTGGCCAGGCAAATAGTTTCTCAATCGGCCTATGTCGCTATGGAGGCAGGATTGACTGCTGCTGGG
 CTGGGCCCGCCAGTCTGGGACAGTGCCAACCTTTCTACGTCTTAAGGCAGAGACTAGCAAGGATAAGG
 TGCCAGCTCAAAGCTGTGTGTAACCACAGTGCAAACACGGAGAGTGCCTCGGGCCAAACAAGTCAAAT
 GTCACCCTGGATTTGCTGGGAAAACCTGCAACCAAGATTTAAACGAGTGTGGCCTGAAGCCTCGGCCCTG
 TAAGCACAGGTGCATGAACACTTTCGGCAGCTACAAGTGTACTGTCTCAACGGATACATGCTGCTGCCA
 GACGGGTCTGCTCAAGTGCCCTATCGTGTCCATGGCAAACCTGCAGTATGGCTGTGACGTGGTCAAAG
 GACAGGTCGGATGTCAGTGTCCATCCCCTGGCCTGCAGCTAGCTCCCGATGGGAGGACCTGTGTGGATAT
 TGATGAATGTGCGACTGGAAGAGTCTCCTGCCCTCGATTTAGGCAGTGTGTCAACACGTTTGGGAGCTAC
 ATCTGCAAGTGTCACTGGTTTTCGACCTCATGTACATTGGAGGCAAATATCAGTGCCATGACATCGACG
 AGTGCTCTCTTGACAGCACCAGTGTAGCAGCTATGCCCGGTGTTACAACATACATGGGTCTACAAGTG
 CCAATGTAGAGATGGATACGAGGGGGATGGACTGAACTGTGTGTATATCCCCAAAGTCAATGATTGAACCT
 TCAGGTCCAATCCATATGCCAGAAAAGAAATGGTACAATCTCAAAGGGTGTGGAGGACATGCGAATAGGA
 TTCCTGATGCTGGAAGTACAAGGTGGCCCTGAAGACACCATATATTCCTCTGTCATTACCAACAGGCC
 TACTTCCAAGCCAACAACAAGACCTACACCAACCCCAACACCACAGCCTACTCCACCACCTCCACCACCC
 CTCCCAGACAGAGCCAGAAACAACCTCACTACCACCAACCCAGAAAGGCCATCTACCAGACCCACCACTA
 TAGCACCTGCTACCAGTACCCTACACGAGTAATTACGGTTGACAACAGGATACAGACGGATCCTCAGAA
 ACCCAGAGGAGATGTGTTTCATTCCACGGCAGCCGACAAATGACCTGTTTGAGATATTTGAAATCGAAAGA
 GGGGTGAGCGCGGATGAGGAAGTAAAGGACGACCCAGGTATTCTCATACAGCTGCAATTTTGACCATG
 GACTCTGTGGATGGATCAGAGAAAAAGATAGTACTTGCAGTGGGAGACAGCCAGGGACCCAGCAGGTGG
 ACAGTATCTCACAGTGTCTGCAGCCAAAGCCCCGGGGGAAAAGCCGCTCGCTTGGTGTACGTCTCGGC
 CACCTCATGCATTAGGGGACCTGTGCCTGTCTTTAGGCACAAGGTGACTGGGCTGCAGTGGGCACAC
 TGCAGGTGTTTGTGAGGAAACACGGTACCACGGAGCAGCCCTGTGGGAAAGAAATGGTGGCCATGGCTG
 GAGGCAAACCCAGATCACCTTGCAGGGGCTGACGTCAAAGCGTCATCTTCAAAGGTGAAAAAGCGCT
 GGTACACGGGGAGATTGGATTGGATGATGTGAGCTTAAAAGAGGTCGCTG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_033525
- Insert Size:** 1737 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_033525.3](#), [NP_277060.2](#)

RefSeq Size: 4670 bp

RefSeq ORF: 1737 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 (1) lacks an in-frame exon in the 5' coding region compared to variant 3. The encoded isoform (a) is shorter than isoform c. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.