

Product datasheet for **MR230002**

Npnt (NM_001287103) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npnt (NM_001287103) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR230002 representing NM_001287103
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACACTTTTCGGCAGCTACAAGTGTCTACTGTCTCAACGGATACATGCTGCTGCCAGACGGGTCCTGCT
 CAAGTGCCCTATCGTGTTCATGGCAAACGTGCTAGTATGGCTGTGACGTGGTCAAAGGACAGGTCGGATG
 TCAGTGTCCATCCCTGGCCTGCAGCTAGCTCCCGATGGGAGGACCTGTGTGGATATTGATGAATGTGCG
 ACTGGAAGAGTCTCCTGCCCTCGATTTAGGCAGTGTGTCAACACGTTTGGGAGCTACATCTGCAAGTGTG
 AACTGTTTCGACCTCATGTACATTGGAGGCAAATATCAGTGCCATGACATCGACGAGTGTCTCTTTGG
 ACAGCACCAGTGTAGCAGCTATGCCCGGTGTACAACATACATGGGTCTACAAGTGCCAATGTAGAGAT
 GGATACGAGGGGGATGGACTGAAGTGTGTATATCCCCAAAGTCATGATTGAACCTTCAGGTCCAATCC
 ATATGCCAGAAAGAAATGGTACAATCTCAAAGGGTGTGGAGGACATGCGAATAGGATTCCTGATGCTGG
 AAGTACAAGTGGCCCTGAAGACACCATATTCCTCCTGTCTTACCAACAGGCTACTTCCAAGCCA
 ACAACAAGACCTACACCAAACCCAAACACACAGCCTACTCCACCACCTCCACCACCCTCCCGACAGAGC
 CCAGAACAACCTCACTACCACCAAACCCAGAAAGGCCATCTACCAGACCCACCACTATAGCACCTGCTAC
 CAGTACCCTACACGAGTAATTACGGTTGACAACAGGATACAGACGGATCCTCAGAAACCCAGAGGAGAT
 GTGTTTATTCCACGGCAGCCGACAAATGACCTGTTTGAGATATTTGAAATCGAAAGAGGGGTGACGCGCG
 ATGAGGAAGTAAAGGACGACCCAGGTATTTCTACACAGCTGCAATTTTGACCATGGACTCTGTGGATG
 GATCAGAGAAAAAGATAGTACTTGGACTGGGAGACAGCCAGGGACCCAGCAGGTGGACAGTATCTCACA
 GTGTCTGCAGCCAAAGCCCGGGGGGAAAAGCCGCTCGCTTGGTGTACGTCTCGGCCACCTCATGCATT
 CAGGGGACCTGTGCCTGTCTTTAGGCACAAGGTGACTGGGCTGCACTCGGGCACACTGCAGGTGTTTGT
 GAGGAAAACACGGTACCCACGGAGCAGCCCTGTGGGGAAGAAATGGTGGCCATGGCTGGAGGCAAACCCAG
 ATCACCTTGCAGGGGCTGACGTCAAAAGCGTCATCTTCAAAGGTGAAAAAGGCGTGGTACACGGGGG
 AGATTGGATTGGATGATGTGAGCTTGAAGAGGTGCTGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230002 representing NM_001287103
 Red=Cloning site Green=Tags(s)

MNTFGSYKCYCLNGYMLLPDGSCSSALSCSMANCOYGCDDVVKQVRCQCPSPGLQLAPDGRCTVDIDECA
 TGRVSCRFRQCNTFGSYICKHTGFDLMYIGGKYQCHDIDECSLGQHQCSSYARCYNIHGSYKQCRD
 GYEGDGLNCVYIPKVMIEPSGPIHMPERNGTISKGDGGHANRIPDAGSTRWPLKTPYIPPVITNRPSTSKP
 TTRPTPNPTPQTPPPPPPLPTEPRTTLPPTPERPSTRPTTIAPATSTTTRVITVDNRIQTDPQKPRGD
 VFIPRQPTNDLFEIFEIERGVSADDEVKDDPGILIHSCNFDHGLCGWIREKDSLHWETARDPAGGQYLT
 VSAKAPGGKAARLVRLGHLMHSGDLCLSRHKVTGLHSGTLQVFRKHGTHGAALWGRNGGHGWRQTQ
 ITLRGADVKSIVFKGEKRRGHTGEIGLDDVSLKRGRC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

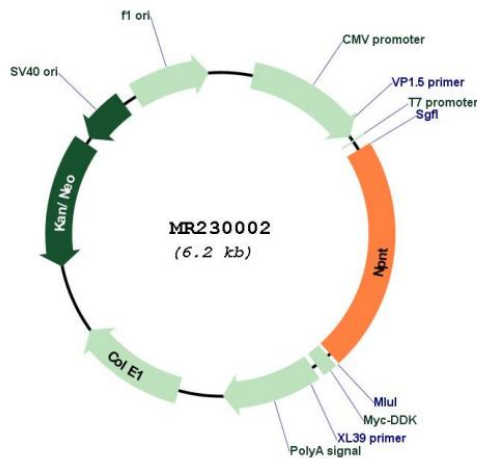
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001287103

ORF Size: 1371 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001287103.1](#), [NP_001274032.1](#)

RefSeq Size: 4337 bp

RefSeq ORF: 1374 bp

Locus ID: 114249

Cytogenetics: 3 G3

MW: 50.5 kDa

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]