

## Product datasheet for **MR208888**

### **Npnt (NM\_001029836) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Npnt (NM_001029836) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Npnt
Synonyms:	1110009H02Rik; AA682063; AI314031; Nctn; POEM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208888 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGTGCTCCTAGCGCGGTGCTCGGTCTCGTCTACCTGCAGGTGGCTGCCGACTTCGACGGGG  
 GGTGGCCAGGCAAATAGTTTCTCAATCGGCCTATGTCGCTATGGAGGCAGGATTGACTGCTGCTGGG  
 CTGGGCCCGCAGTCCTGGGACAGTGCCAACCTGTGTGTCAACCACAGTGCAAACACGGAGAGTGCGTC  
 GGGCAAACAAGTGCAAATGTCACCCTGGATTTGCTGGGAAAACCTGCAACCAAGATTTAAACGAGTGTG  
 GCCTGAAGCCTCGGCCCTGAAGCACAGGTGCATGAACACTTTCCGGCAGCTACAAGTGTACTGTCTCAA  
 CGGATACATGCTGCTGCCAGACGGGTCTGCTCAAGTGCCTATCGTGTCCATGGCAAACCTGTCAGTAT  
 GGCTGTGACGTGGTCAAAGGACAGGTCCGATGTCAGTGTCCATCCCCTGGCTGCAGCTAGCTCCCGATG  
 GGAGGACCTGTGGATATTGATGAATGTGCGACTGGAAGAGTCTCTGCCCTCGATTTAGCGAGTGTGT  
 CAACACGTTTGGGAGCTACATCTGCAAGTGTCACTGGTTTCGACCTCATGTACATTGGAGGCAAATAT  
 CAGTGCCATGACATCGACGAGTGTCTCTTGGACAGCACCAGTGTAGCAGCTATGCCCGGTGTACAACA  
 TACATGGTCTCAAAAGTCCAATGTAGAGATGGATACGAGGGGGATGGACTGAAGTGTGTATATCCC  
 CAAAGTCAATGATTGAACCTTCAGGTCCAATCCATATGCCAGAAAGAAATGGTACAATCTCAAAGGTGAT  
 GGAGGACATGCGAATAGGATTCCTGATGCTGGAAGTACAAGGTGGCCCTGAAGACACCATATATTCCTC  
 CTGTCAATACCAACAGGCCTACTTCCAAGCCAACAACAAGACCTACACCAAACCCAGAAAGGCCA  
 TCCACCACCTCCACCACCCCTCCCGACAGAGCCAGAACAACCTCACTACCACCAAACCCAGAAAGGCCA  
 TCTACCAGACCCACCCTATAGCACCTGCTACCACTACACGAGTAATTACGTTGACAACAGGA  
 TACAGACGGATCCTCAGAAACCCAGAGGAGATGTGTTTTCATCCACGGCAGCCGACAAATGACCTGTTTGA  
 GATATTTGAAATCGAAAGAGGGGTGAGCGCGGATGAGGAAGTAAAGGACGACCCAGGTATTCTCATACAC  
 AGCTGCAATTTTACCATTGGACTCTGTGGATGGATCAGAGAAAAAGATAGTACTTGCAGTGGGAGACAG  
 CCAGGGACCCAGCAGGTGGACAGTATCTCACAGTGTCTGCAGCCAAAGCCCGGGGGGAAAAAGCCGCTCG  
 CTTGGTGTACTGCTCGGCCACCTCATGCATTACAGGGACCTGTGCTGTCTTTAGGCACAAGGTGACT  
 GGGCTGCAGTCCGGCACACTGCAGGTGTTTGTGAGGAAACACGGTACCCACGGAGCAGCCCTGTGGGAA  
 GAAATGGTGGCCATGGCTGGAGGCAAACCCAGATCACCTTGCAGGGGCTGACGTCAAAGCGTCATCTT  
 CAAAGGTAAAAAGCGTGGTACACGGGGGAGATTGGATTGGATGATGTGAGCTTAAAAAGAGGTGCG  
 TGC

**ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:**

>MR208888 protein sequence  
 Red=Cloning site Green=Tags(s)

MAVLLAAVLASSLYLQVAADFDDGWPRIQVSSIGLCRYGGRIDCCWGWARQSWGQCQPVCQPQCKHGECV  
 GPNKCKCHPGFAGKTCNQDLNECGLKPRPCKHRCMNTFGSYKCYCLNGYMLLPDGSCSSALSCSMANQY  
 GCDVVKGQVRCQCPSPGLQLAPDGRTCVDIDEATGRVSCPRFRQCVNTFGSYICKHTGFDLMYIGGKY  
 QCHDIDECSLGQHQCSSYARCYNIHGSYKQCRDGYEGDGLNCVYIPKVMIEPSGPIHMPERNGTISKGD  
 GGHANRIPDAGSTRWPLKTPYIPPVITNRPTSKPTTRPTPNPTPQPTPPPPPLPTEPRTTLPPTPERP  
 STRPTTIAPATSTTRVITVDNRIQTDPOKPRGDVFIHQPTNDLFEIFEIERGVSADEEVKDDPGILIH  
 SCNFDHGLCGWIREKDSLHWETARDPAGGQYLTVSAAKAPGGKAARLVLRLGHLMHSGDLCLSRHKVT  
 GLHSGTLQVYVRKHGTHGAALWGRNGGHGWRQTQITLRGADVKSIVFKGEKRRGHTGEIGLDDVSLKRGR  
 C

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001029836

ORF Size: 1686 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\\_001029836.1](#), [NM\\_001029836.2](#), [NP\\_001025007.1](#)

RefSeq Size: 4619 bp

RefSeq ORF: 1686 bp

Locus ID: 114249

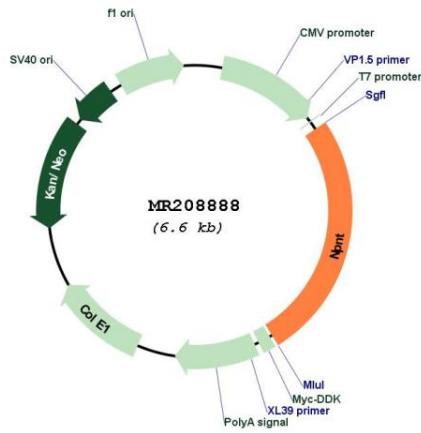
UniProt ID: [Q91V88](#)

Cytogenetics: 3 G3

**MW:** 61.4 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]

**Product images:**



Circular map for MR208888