

Product datasheet for **MR230610**

Npnt (NM_001287102) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npnt (NM_001287102) 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:

>MR230610 representing NM_001287102
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTGTGCTCCTAGCGCGGTGCTCGGTCTCGTCTACCTGCAGGTGGCTGCCGACTTCGACGGGA
 GGTGGCCAGGCAAATAGTTTCTCAATCGGCCTATGTCGCTATGGAGGCAGGATTGACTGCTGCTGGG
 CTGGGCCCGCCAGTCCTGGGGACAGTGCCAACCTGTGTGTCAACCACAGTGCAAACACGGAGAGTGCGTC
 GGGCAAACAAGTGCAAATGTCACCCTGGATTTGCTGGGAAAACCTGCAACCAAGATGAGTCCTCCACC
 CAACTCCTCTTGACCAAGGCAGTGAACAGCCTCTTTTCCAACCCCGGATCATCAAGCCACAATGTACC
 TTCAAGGGATTTAAACGAGTGTGGCCTGAAGCCTCGGCCCTGTAAGCACAGGTGCATGAACACTTTCGGC
 AGCTACAAGTGTACTGTCTCAACGGATACATGCTGCTGCCAGACGGTCTGCTCAAGTGCCTATCGT
 GTTCCATGGCAAAGTGTAGTATGGCTGTGACGTGGTCAAAGGACAGGTCGGATGTCAAGTGTCCATCCCC
 TGGCCTGCAGTACTCCCGATGGGAGGACCTGTGTGGATATTGATGAATGTGCGACTGGAAGAGTCTCC
 TGCCCTCGATTTAGGCAGTGTGTCAACACGTTTGGGAGCTACATCTGCAAGTGTCAACTGGTTTCGACC
 TCATGTACATTGGAGGCAAATATCAAGTGCATGACATCGACGAGTGTCTCTTGGACAGCACCAGTGTAG
 CAGCTATGCCCGGTGTTACAACATACATGGGTCCTACAAGTGCCAATGTAGAGATGGATACGAGGGGGAT
 GGACTGAACTGTGTGATATCCCCAAAGTCATGATTGAACCTTCAAGTCCAATCCATATGCCAGAAAAGAA
 ATGGTACAATCTCAAAGGGTGTGGAGGACATGCGAATAGGATTCCTGATGCTGGAAGTACAAGTGGCC
 CCTGAAGACACCATATATTCCTCTGTCAATACCAACAGGCCTACTTCCAAGCCAACAACAGACCTACA
 CCAAACCCAACACACAGCCTACTCCACCACCTCCACCACCCCTCCGACAGAGCCAGAACCAACTCCAC
 TACCACCAACCCAGAAAGGCCATCTACCAGACCACCACTATAGCACCTGTACCAGTACCACACTACACG
 AGTAATTACGGTTGACAACAGGATACAGACGGATCCTCAGAAACCCAGAGGAGATGTGTTCAATCCACGG
 CAGCCGACAAATGACCTGTTTGGATATTTGAAATCGAAAGAGGGGTGAGCGCGGATGAGGAAGTAAAGG
 ACGACCCAGGTATTCTCATAACAGCTGCAATTTTACCATGGACTCTGTGGATGGATCAGAGAAAAAGA
 TAGTGACTTGCCTGGGAGACAGCCAGGGACCCAGCAGGTGGACAGTATCTCACAGTGTCTGCAGCCAAA
 GCCCGGGGGGAAAAGCCGCTCGCTTGGTGTACGTCTCGCCACCTCATGCATTAGGGGACCTGTGCC
 TGTCTTTAGGCACAAGGTGACTGGGCTGCACTCGGGCACACTGCAGGTGTTTGTAGGAAACACGGTAC
 CCACGGAGCAGCCCTGTGGGAAGAAATGGTGGCCATGGCTGGAGGCAAACCCAGATCACCTTGCAGGG
 GCTGACGTCAAAGCGTCATCTTCAAAGGTGAAAAAGGCGTGGTACACGGGGGAGATTGGATTGGATG
 ATGTGAGCTTGAAGAGGTGCTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230610 representing NM_001287102
 Red=Cloning site Green=Tags(s)

MAVLLAAVLASSLYLQVAADFGRWPRQIVSSIGLCRYGGRIDCCWGWARQSWGQCQPVCQPQCKHGEV
 GPNKCKCHPGFAGKTCNQDESFHPTPLDQGEQPLFQPPDHQATNVPSRDLNEGLKPRPCKHRCMNTFG
 SYKCYCLNGYMLLPDGCSSALSCSMANCQYGCDVVKQVRCQCPSPGLQLAPDGRTCVDIDECATGRVS
 CPRFRQCVNTFGSYICKHTGFDLMYIGGKYQCHDIDECSLGQHQCSSYARCYNIHGSYKQCRDGYEGD
 GLNCVYIPKVMIEPSGPIHMPERNGTISKGDGGHANRIPDAGSTRWPLKTPYIPPVITNRPTSKPTTRPT
 PNPTPQPTPPPPPLPTEPRTTLPPTPERPSTRPTTIAPATSTTRVITVDNRIQTDQPQKPRGDVFI
 QPTNDLFEIFEIERGVSADAEVKDDPGILIHSCNFDHGLCGWIREKSDLHWETARDPAGGQYLTVSAAK
 APGGKAARLVRLGHLMHSGDLCLSFRHKVTGLHSGTLQVVRKHGTHGAALWGRNGGHGWRQTQITLGR
 ADVKSVIFKGEKRRGHTGEIGLDDVSLKRGRC

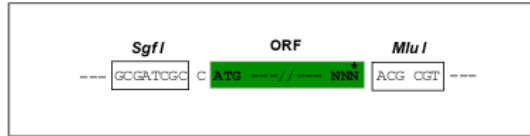
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

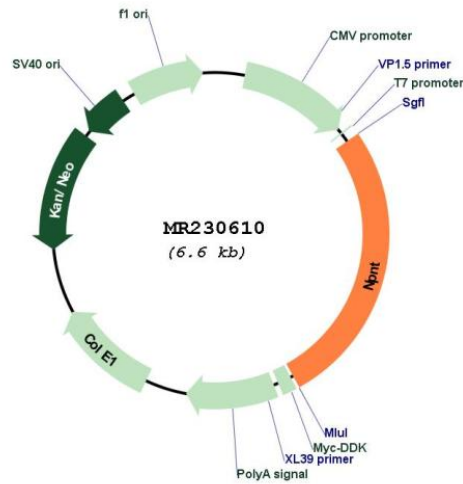
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001287102

ORF Size: 1776 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:	<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:	NM_001287102.1 , NP_001274031.1
RefSeq Size:	4712 bp
RefSeq ORF:	1779 bp
Locus ID:	114249
UniProt ID:	Q91V88
Cytogenetics:	3 G3
MW:	65.4 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]