

Product datasheet for **MG222950**

Npnt (NM_033525) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Npnt (NM_033525) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Npnt
Synonyms:	1110009H02Rik; AA682063; AI314031; Nctn; POEM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG222950 representing NM_033525
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGTGCTCCTAGCGCGGTGCTCGGTCTCGCTCTACCTGCAGGTGGCTGCCGACTTCGACGGGA
 GGTGGCCAGGCAAATAGTTTCTCAATCGGCCTATGTCGCTATGGAGGCAGATTGACTGCTGCTGGGG
 CTGGGCCCGCCAGTCTGGGGACAGTGCCAACCTTTCTACGTCTTAAGGCAGAGACTAGCAAGGATAAGG
 TGCCAGCTCAAAGCTGTGTGTAACCACAGTGCAAACACGGAGAGTGCCTCGGGCCAAACAAGTGCAAAT
 GTCACCCTGGATTTGCTGGGAAAACCTGCAACCAAGATTTAAACGAGTGTGGCCTGAAGCCTCGGCCCTG
 TAAGCACAGGTGCATGAACACTTTCGGCAGCTACAAGTGTACTGTCTCAACGGATACATGCTGCTGCCA
 GACGGGTCTGCTCAAGTGCCCTATCGTGTCCATGGCAAACCTGCAGTATGGCTGTGACGTGGTCAAAG
 GACAGGTCGATGTCAGTGTCCATCCCCTGGCCTGCAGCTAGCTCCCGATGGGAGGACCTGTGTGGATAT
 TGATGAATGTGCGACTGGAAGAGTCTCCTGCCCTCGATTTAGGCAGTGTGTCAACACGTTTGGGAGCTAC
 ATCTGCAAGTGTCACTGGTTTTCGACCTCATGTACATTGGAGGCAAATATCAGTGCCATGACATCGACG
 AGTGCTCTCTTGACAGCACCAGTGTAGCAGCTATGCCCGGTGTTACAACATACATGGGTCTACAAGTG
 CCAATGTAGAGATGGATACGAGGGGGATGGACTGAACTGTGTGTATATCCCCAAAGTCAAGTGAACCT
 TCAGGTCCAATCCATATGCCAGAAAAGAAATGGTACAATCTCAAAGGGTGTGGAGGACATGCGAATAGGA
 TTCCTGATGCTGGAAGTACAAGTGGCCCTGAAGACCCATATATTCCTCCTGTCATTACCAACAGGCC
 TACTTCCAAGCCAACAACAAGACCTACACCAAAACCAACACCACAGCCTACTCCACCACCTCCACCACCC
 CTCCCACAGAGCCAGAAACAACCTCCACTACCACCAACCCAGAAAGGCCATCTACCAGCCACCCACTA
 TAGCACCCTGCTACCAGTACCCTACACGAGTAATTACGGTTGACAACAGGATACAGACGGATCCTCAGAA
 ACCCAGAGGAGATGTGTTCAATCCACGGCAGCCGACAAATGACCTGTTTGAGATATTTGAAATCGAAAGA
 GGGGTACGCGCGGATGAGGAAGTAAAGGACGACCCAGGTATTCTCATACAGCTGCAATTTTGACCATG
 GACTCTGTGGATGGATCAGAGAAAAAGATAGTGACTTGCAGTGGGAGACAGCCAGGGACCCAGCAGGTGG
 ACAGTATCTCACAGTGTCTGCAGCCAAAGCCCCGGGGGAAAAGCCGCTCGCTTGGTGTACGTCTCGGC
 CACCTCATGCATTAGGGGACCTGTGCCTGTCTTTAGGCACAAGGTGACTGGGCTGCAGTCCGGCACAC
 TGCAGGTGTTTGTAGGAAAACCGGTACCCACGGAGCAGCCCTGTGGGAAAGAAATGGTGGCCATGGCTG
 GAGGCAAACCCAGATCACCTTGCAGGGGCTGACGTCAAAGCGTCATCTTCAAAGGTGAAAAAGGCGT
 GGTACACGGGGAGATTGGATTGGATGATGTGAGCTTAAAAGAGGTCGCTGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG222950 representing NM_033525
 Red=Cloning site Green=Tags(s)

MAVLLAAVLAASSLYLQVAADFGRWPRQIVSSIGLCRYGGRIDCCWGWARQSWGQCQPFYVLRQRLARIR
 CQLKAVCPQCKHGECVGNPKCKCHPGFAGKTCNQDLNECGLKPRPKHRCMNTFGSYKYCLNGYMLLP
 DGSCSSALSCSMANQYGCDDVVKQVRCQCPSPGLQLAPDGRTCVDIDECATGRVSCPRFRQCVNTFGSY
 ICKCHTGFDLMIYGGKYQCHDIDECSLGQHQCSSYARCYNIHGSYKQCRDGYEGDGLNCVYIPKVMIEP
 SGPIHMPERNGTISKGDGGHANRIPDAGSTRWPLKTPYIPPVITNRPTSKPTTRPTPNPTPQTPPPPPP
 LPTEPRTTLPPTPERPSTRPTTIAPATSTTRVITVDNRIQTDQKPRGDFVIFRQPTNDLFEIFEIER
 GVSADVEEKDDPGILIHSCNFDHGLCGWIREKDSDLHWETARDPAGGQYLTVSAAKAPGGKAARLVRLG
 HLMHSGDLCLSFRHKVTGLHSGTLQVFVRKHGTHGAALWGRNGGHGWRQTQITLRGADVKSIVIFKGEKRR
 GHTGEIGLDDVSLKRGRC

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_033525

ORF Size: 1734 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_033525.3](#), [NP_277060.2](#)

RefSeq Size: 3734 bp

RefSeq ORF: 1737 bp

Locus ID: 114249

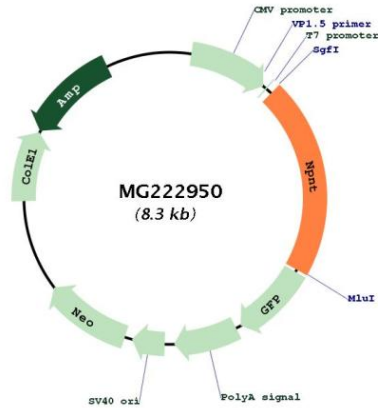
UniProt ID: [Q91V88](#)

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]

Product images:



Circular map for MG222950