

Product datasheet for **MG20888**

Npnt (NM_001029836) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Npnt (NM_001029836) 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:

>MG208888 representing NM_001029836
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGTGCTCCTAGCGCGGTGCTCGGTCTCGTCTACCTGCAGGTGGCTGCCGACTTCGACGGGG
 GGTGGCCAGGCAAATAGTTTCTCAATCGGCCTATGTCGCTATGGAGGCAGATTGACTGCTGCTGGGG
 CTGGGCCCGCCAGTCTGGGGACAGTGCCAACCTGTGTGTCAACCACAGTGCAAACACGGAGAGTGCGTC
 GGGCAAACAAGTGCAAATGTCACCCTGGATTTGCTGGGAAAACCTGCAACCAAGATTTAAACGAGTGTG
 GCCTGAAGCCTCGGCCCTGAAGCACAGGTGCATGAACACTTTCCGGCAGCTACAAGTGTACTGTCTCAA
 CGGATACATGCTGCTGCCAGACGGGTCTGCTCAAGTGCCTATCGTGTCCATGGCAAACCTGTCAGTAT
 GGCTGTGACGTGGTCAAAGGACAGGTCCGATGTCAGTGTCCATCCCTGGCTGCAGCTAGCTCCCGATG
 GGAGGACCTGTGGATATTGATGAATGTGCGACTGGAAGAGTCTCTGCCCTCGATTTAGCGAGTGTGT
 CAACACGTTTGGGAGCTACATCTGCAAGTGTCACTGGTTTCGACCTCATGTACATTGGAGGCAAATAT
 CAGTGCCATGACATCGACGAGTGTCTCTTGGACAGCACCAGTGTAGCAGCTATGCCCGGTGTACAACA
 TACATGGTCTTACAAGTCCAATGTAGAGATGGATACGAGGGGGATGGACTGAACTGTGTGTATATCCC
 CAAAGTCATGATTGAACCTTCAGGTCCAATCCATATGCCAGAAAGAAATGGTACAATCTCAAAGGGTGT
 GGAGGACATGCGAATAGGATTCCTGATGCTGGAAGTACAAGGTGGCCCTGAAGACACCATATATTCCTC
 CTGTCTATTACCAACAGGCCTACTTCCAAGCCAACAACAAGACCTACACCAAACCCACACCACAGCCTAC
 TCCACCACCTCCACCACCCCTCCCGACAGAGCCAGAACAACCTCACTACCACCAAACCCAGAAAGGCCA
 TCTACCAGACCCACCCTATAGCACCTGCTACCACTACACGAGTAATTACGTTGACAACAGGA
 TACAGACGGATCCTCAGAAACCCAGAGGAGATGTGTTTCATTCCACGGCAGCCGACAAATGACCTGTTTGA
 GATATTTGAAATCGAAAGAGGGGTGAGCGCGGATGAGGAAGTAAAGGACGACCCAGGTATTCTCATACAC
 AGCTGCAATTTTACCATTGGACTCTGTGGATGGATCAGAGAAAAAGATAGTACTTGCAGTGGGAGACAG
 CCAGGGACCCAGCAGGTGGACAGTATCTCACAGTGTCTGCAGCCAAAGCCCGGGGGGAAAAAGCCGCTCG
 CTTGGTGTACTGCTCGGCCACCTCATGCATTACAGGGACCTGTGCTGTCTTTAGGCACAAGGTGACT
 GGGCTGCAGTCCGGCACACTGCAGGTGTTTGTGAGGAAACACGGTACCCACGGAGCAGCCCTGTGGGAA
 GAAATGGTGGCCATGGCTGGAGGCAAACCCAGATCACCTTGCAGGGGCTGACGTCAAAGCGTCATCTT
 CAAAGGTAAAAAGCGTGGTACACGGGGGAGATTGGATTGGATGATGTGAGCTTAAAAAGAGGTGCG
 TGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208888 representing NM_001029836
 Red=Cloning site Green=Tags(s)

MAVLLAAVLASSLYLQVAADFDDGWPRQIVSSIGLCRYGGRIDCCWGWARQSWGQCQPVCQPQCKHGEV
 GPNKCKCHPGFAGKTCNQDLNECGLKPRPKHRCMNTFGSYKCYCLNGYMLLPDGSCSSALSCSMANCQY
 GCDVVKGQVRCQCPSPGLQLAPDGRTCVDIDECATGRVSCPRFRQCVNTFGSYICKCHTGFDFLMIYGGKY
 QCHDIDECSLGQHQCSSYARCYNIHGSYKQCRDGYEGDGLNCVYIPKVMIEPSGPIHMPERNGTISKGD
 GGHANRIPDAGSTRWPLKTPYIPPVITNRPTSKPTTRPTPNPTPQTPPPPPPLPTEPRTTLPPTPERP
 STRPTTIAPATSTTTRVITVDNRIQTDPOKPRGDVFIQPTNDLFEIFEIERGVSADEEVKDDPGILIH
 SCNFDHGLCGWIREKDSLHWETARDPAGGQYLTVSAAKAPGGKAARLVLRGLHLMHSGDLCLSRHKVT
 GLHSGTLQVFRKHGTHGAALWGRNGGHGWRQTQITLRGADVKSIVFKGEKRRGHTGEIGLDDVSLKRGR
 C

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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|-------------------------------|---|
| 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_001029836.1 , NP_001025007.1 |
| RefSeq Size: | 3683 bp |
| RefSeq ORF: | 1686 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] |