

Product datasheet for **RC216417**

nephronectin (NPNT) (NM_001033047) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	nephronectin (NPNT) (NM_001033047) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	nephronectin
Synonyms:	EGFL6L; POEM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC216417 representing NM_001033047
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTTTCTCCTGGCGCTGGTGTATCCTCGCTCTACCTGCAGGGCGGCCGGAGTTCGACGGGA
 GGTGGCCAGGCAAATAGTGTATCGATTGGCCTATGTCGTTATGGTGGGAGATTGACTGCTGCTGGG
 CTGGGCTCGCCAGTCTTGGGGACAGTGTGAGCCTGTGTGCCAACCACGATGCAAACATGGTGAATGTATC
 GGGCAAACAAGTGAAGTGTATCCTGGTTATGCTGGAAAACTGTAATCAAGATCTAAATGAGTGTG
 GCCTGAAGCCCCGGCCCTGAAGCACAGGTGCATGAACACTTACGGCAGCTACAAGTGTACTGTCTCAA
 CGGATATATGCTCATGCCGGATGGTTCCTGCTCAAGTGCCTGACCTGCTCCATGGCAAACCTGTCAGTAT
 GGCTGTGATGTTGTTAAAGGACAAATACGGTGCCAGTGCCATCCCCTGGCTGCAGCTGGCTCCTGATG
 GGAGGACCTGTGATGTTGATGAATGTGCTACAGGAAGAGCCTCCTGCCCTAGATTTAGGCAATGTGT
 CAACACTTTTGGGAGCTACATCTGCAAGTGTCAAAAGGCTTCGATCTCATGTATATTGGAGGCAAATAT
 CAATGTATGACATAGACGAATGCTCACTTGGTCAAGTATCAGTGCAGCAGCTTTGCTCGATGTTATAACA
 TACGTGGGTCTACAAGTCAAATGTAAAGAAGGATACCAGGGTATGGACTGACTTGTGTGTATATCCC
 AAAAGTTATGATTGAACCTTCAGGTCCAATTTCATGTACCAAAGGGAAATGGTACCATTTTAAAGGGTAC
 ACAGGAAATAAATGGATTCTGATGTTGGAAGTACTTGGTGGCCTCCGAAGACCATATATTCCTC
 CTATCATTACCAACAGGCCTACTTCTAAGCCAACAACAAGACCTACACCAAAGCCAAACCAATTCTAC
 TCCACCACCACCACCCTGCCAACAGAGCTCAGAACACCTTACCACCTACAACCCAGAAAGGCCA
 ACCACCCGAGTGACAACATAGCACAGCTGCCAGTACACCTCCAGGAGGATTACAGTTGACAACAGGG
 TACAGACAGACCCTCAGAAACCCAGAGGAGATGTGTTTCATTCCACGGCAACCTTCAAATGACTTGTGTTGA
 AATATTTGAAATAGAAAGAGGAGTCAAGTGCAGACGATGAAGCAAAGGATGATCCAGGTGTTCTGGTACAC
 AGTTGTAATTTTACCATTGGACTTTGTGGATGGATCAGGGAGAAAGACAATGACTTGCAGCTGGAAACCAA
 TCAGGGACCCAGCAGGTGGACAATATCTGACAGTGTGCGCAGCCAAAGCCCAAGGGGAAAGCTGCACG
 CTTGGTGTACTCTCGGCCGCTCATGCATTACAGGGACCTGTGCTGTATTACAGGCACAAGGTGACG
 GGGCTGCACTCTGGCACACTCCAGGTGTTTGTGAGAAAACACGGTGCCACGGAGCAGCCCTGTGGGAA
 GAAATGGTGGCCATGGCTGGAGGCAAACACAGATCACCTTGCAGGGGCTGACATCAAGAGCGTCGTCTT
 CAAAGGTAAAAAAGCGTGGTCACTGAGGAGATTGGATTAGATGATGTGAGCTTAAAAAAGGCCAC
 TGCTCTGAAGAACGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216417 representing NM_001033047
 Red=Cloning site Green=Tags(s)

MDFLLALVLVSSLYLQAAAEFDGRWPRQIVSSIGLCRYGGRIDCCWGWARQSWGQCQPVCQPRCKHGECI
 GPNKCKCHPGYAGKTCNQDLNECGLKPRPCKHRCMNTYGSYKCYCLNGYMLMPDGSCSSALTCSMANCQY
 GCDVVKGQIRCQCPSPGLQLAPDGRTCVDVDECATGRASCPFRQCNTFGSYICKCHKGFDMYIGGKY
 QCHDIDECSLGQYQCSSFARCYNIRGSYKCKKEGYQGDGLTCVYIPKVMIEPSGPIHVPKNGTILKGD
 TGNNNWIPDVGSTWPPKTPYIPPIITNRPTSKPTTRPTPKPTPIPTPPPPPLPTELRLPLPPTPERP
 TTGLTTIAPAASTPPGGITVDNRVQTDPOKPRGDVFIIPRQPSNDLFEIFEIERGVSADDEAKDDPGVLVH
 SCNFDHGLCGWIREKDNDLHWEPIRDPAAGQYLTVSAAKAPGGKAARLVLPLGRLMHSGLCLLFRHKVT
 GLHSGTLQVYVRKHGAHGAALWGRNGGHGWRQTQITLRGADIKSVVFKGEKRRGHTGEIGLDDVSLKKGH
 CSEER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6797_f07.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001033047

ORF Size: 1695 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_001033047.3](#)

RefSeq Size: 4595 bp

RefSeq ORF: 1698 bp

Locus ID: 255743

UniProt ID: [Q6UXI9](#)

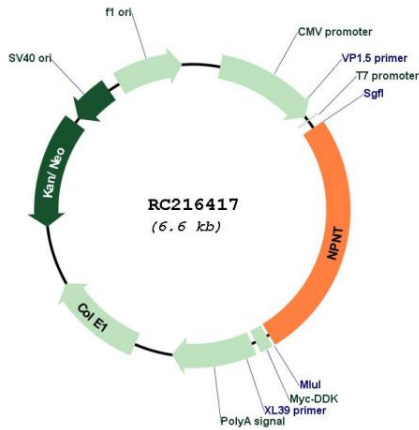
Cytogenetics: 4q24

Protein Families: Druggable Genome

MW: 61.7 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216417