

Product datasheet for **RC230311**

nephronectin (NPNT) (NM_001184690) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	nephronectin (NPNT) (NM_001184690) 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:

>RC230311 representing NM_001184690
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATTTTCTCCTGGCGCTGGTGTATCCTCGCTCTACCTGCAGGCGGCCCGCGAGTTCGACGGGA
 GGTGGCCAGGCAAATAGTGTATCGATTGGCCTATGTCGTTATGGTGGGAGATTGACTGCTGCTGGG
 CTGGGCTCGCCAGTCTTGGGGACAGTGTCAACCTTTCTACGTCTTAAGGCAGAGAATAGCCAGGATAAGG
 TGCCAGCTCAAAGCTGTGTGCCAACACGATGCAAACATGGTGAATGTATCGGGCCAAACAAGTGAAGT
 GTCATCCTGGTTATGCTGGAAAACTGTAAATCAAGATCTAAATGAGTGTGGCCTGAAGCCCCGGCCCTG
 TAAGCACAGGTGCATGAACACTTACGGCAGCTACAAGTGTACTGTCTCAACGGATATATGCTCATGCCG
 GATGGTTCCTGCTCAAGTGCCCTGACCTGCTCCATGGCAAACGTGTCAGTATGGCTGTGATGTTGTTAAAG
 GACAAATACGGTGCCAGTCCCCTCCCCTGGCCTGCAGCTGGCTCCTGATGGGAGGACCTGTGTAGATGT
 TGATGAATGTGCTACAGGAAGAGCCTCCTGCCCTAGATTTAGGCAATGTGTCAACACTTTTGGGAGCTAC
 ATCTGCAAGTGTCAAAAGGCTTCGATCTCATGTATATTGGAGGCAAATCAATGTCATGACATAGACG
 AATGCTCACTTGGTCAGTATCAGTGCAGCAGCTTTGCTCGATGTTATAACATACGTGGGTCTACAAGT
 CAAATGTAAGAAGGATACCAGGTGATGGACTGACTTGTGTATATCCCAAAGTTATGATTGAACCT
 TCAGGTCCAATTCATGTACCAAAGGAAATGGTACCATTTAAAGGGTGACACAGGAAATAATAATTGGA
 TTCCTGATGTTGGAAGTACTTGGTGGCCTCCGAAGACACCATATATTCCTCCTATCATTACCAACAGGCC
 TACTTCTAAGCCAACAACAAGACCTACACCAAAGCCAACCAATTCTACTCCACCACCACCACCACC
 CTGCCAACAGAGCTCAGAACACCTTACCACCTACAACCCAGAAAGGCAACACCACCGGACTGACAAC
 TAGCACAGCTGCCAGTACACCTCCAGGAGGATTACAGTTGACAACAGGGTACAGACAGCCCTCAGAA
 ACCCAGAGGAGATGTGTTTCCATCCACGGCAACCTTCAAATGACTTGTGTTGAAATATTTGAAATAGAAGA
 GGAGTCAGTGCAGACGATGAAGCAAAGGATGATCCAGGTGTTCTGGTACACAGTTGTAATTTTGACCATG
 GACTTTGTGGATGGATCAGGGAGAAAGACAATGACTTGCCTGGGAACCAATCAGGGACCCAGCAGGTGG
 ACAATATCTGACAGTGTGCGCAGCCAAAGCCCCAGGGGAAAAGCTGCACGCTTGGTGTACCTCTCGGC
 CGCCTCATGCATTAGGGGACCTGTGCCTGTATTAGGCACAAGGTGACGGGGCTGCCTCTGGCACAC
 TCCAGGTGTTGTGAGAAAACACGGTGCCACGGAGCAGCCCTGTGGGAAAGAAATGGTGGCCATGGCTG
 GAGGCAACACAGATCACCTTGCAGGGGCTGACATCAAGAGCGTCGTCTCAAAGGTGAAAAAGCGCT
 GGTCACTGGGAGATTGGATTAGATGATGTGAGCTTAAAAAGGCCACTGCTCTGAAGAACGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230311 representing NM_001184690
 Red=Cloning site Green=Tags(s)

MDFLLALVLVSSLYLQAAAEFDGRWPRQIVSSIGLCRYGGRIDCCWGWARQSWGQCQPFYVLRQRIARIR
 CQLKAVCQPRCKHGECIGPNKCKCHPGYAGKTCNQDLNECGLKPRPCKHRCMNTYGSYKCYCLNGYMLMP
 DGSCSSALTCSMANCQYQCDVVKGQIRCQCPSPGLQLAPDGRTCVDVDECATGRASCPRFRQCVNTFGSY
 ICKCHKGFDMYIGGKYQCHDIDECSLGQYQCSSFARCYNIRGSYKCKKEGYQGDGLTCVYIPKVMIEP
 SGPIHVPKNGTILKGDGTGNNWIPDVGSTWPPKTPYIPPIITNRPTSKPTTRPTPKPTPIPTPPPPPP
 LPTELRLPPTTPERPTTGLTTIAPAASTPPGGITVDNRVQTDQKPRGDFVIPRQPSNDLFEIFEIER
 GVSADDEAKDDPGVLVHSCNFDHGLCGWIREKDNLDHWEPIRDPAGGQYLTVSAAKAPGGKAARLVLPLG
 RLMHSGDLCLSFRHKVTLHSGTLQVQVFRKHGAHGAALWGRNGGHGWRQTQITLRGADIKSVVFKGKRR
 GHTGEIGLDDVSLKKGHCSEER

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_c12.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001184690

ORF Size: 1746 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

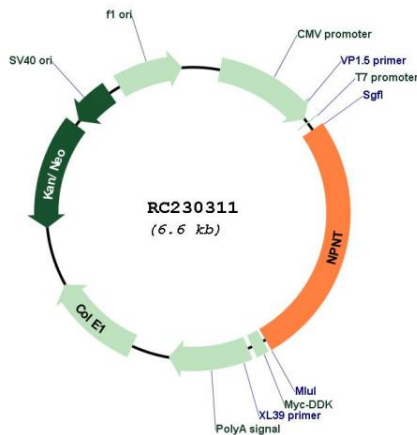
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001184690.2](#)
 RefSeq ORF: 1749 bp
 Locus ID: 255743
 UniProt ID: [Q6UXI9](#)
 Cytogenetics: 4q24
 Protein Families: Druggable Genome
 MW: 64.5 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 RC230311