

## Product datasheet for **RG216417**

### 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:	TurboGFP
Symbol:	nephronectin
Synonyms:	EGFL6L; POEM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG216417 representing NM\_001033047  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGATTTTCTCCTGGCGCTGGTGTATCCTCGCTCTACCTGCAGGCGGCCCGCGAGTTCGACGGGA  
 GGTGGCCAGGCAAATAGTGTATCGATTGGCCTATGTCGTTATGGTGGGAGATTGACTGCTGCTGGG  
 CTGGGCTCGCCAGTCTTGGGGACAGTGTGAGCCTGTGTGCCAACACGATGCAAACATGGTGAATGTATC  
 GGGCAAACAAGTGAAGTGTATCCTGGTTATGCTGGAAAACTGTAATCAAGATCTAAATGAGTGTG  
 GCCTGAAGCCCCGGCCCTGAAGCACAGGTGCATGAACACTTACGGCAGCTACAAGTGTACTGTCTCAA  
 CGGATATATGCTCATGCCGGATGGTTCCTGCTCAAGTGCCTGACCTGCTCCATGGCAAACCTGTCAGTAT  
 GGCTGTGATGTTGTTAAAGGACAAATACGGTGCCAGTGCCATCCCCTGGCTGCAGCTGGCTCCTGATG  
 GGAGGACCTGTGATGTTGATGAATGTGCTACAGGAAGAGCCTCCTGCCCTAGATTTAGGCAATGTGT  
 CAACACTTTTGGGAGCTACATCTGCAAGTGTCAAAAGGCTTCGATCTCATGTATATTGGAGGCAAATAT  
 CAATGTATGACATAGACGAATGCTCACTTGGTCAAGTATCAGTGCAGCAGCTTTCGCTCGATGTTATAACA  
 TACGTGGGTCCTACAAGTCAAATGTAAAGAAGGATACCAGGGTATGGACTGACTTGTGTGTATATCCC  
 AAAAGTTATGATTGAACCTTCAGGTCCAATTTCATGTACCAAAGGGAAATGGTACCATTTTAAAGGGTGC  
 ACAGGAAATAATAATTGGATTCTGATGTTGGAAGTACTTGGTGGCCTCCGAAGACCATATATTCCTC  
 CTATCATTACCAACAGGCCTACTTCTAAGCCAACAACAAGACCTACACCAAAGCCAACACCAATTCCTAC  
 TCCACCACCACCACCCTGCCAACAGAGCTCAGAACACCTTACCACCTACAACCCAGAAAGGCCA  
 ACCACCCGAGTGACAACATAGCACCAGCTGCCAGTACACCTCCAGGAGGATTACAGTTGACAACAGGG  
 TACAGACAGACCCTCAGAAACCCAGAGGAGATGTGTTTCATTCCACGGCAACCTTCAAATGACTTGTGTTGA  
 AATATTTGAAATAGAAAGAGGAGTCAAGTGCAGACGATGAAGCAAAGGATGATCCAGGTGTTCTGGTACAC  
 AGTTGTAATTTTACCATTGGACTTTGTGGATGGATCAGGGAGAAAGACAATGACTTGCAGTGGAAACCAA  
 TCAGGGACCCAGCAGGTGGACAATATCTGACAGTGTGCGCAGCCAAAGCCCCAGGGGAAAGTGCACG  
 CTTGGTGTACTCTCGGCCCTCATGCATTACAGGGACCTGTGCTGTATTACAGGCACAAGGTGACG  
 GGGCTGCACTCTGGCACACTCCAGGTGTTTGTGAGAAAACACGGTGCCACGGAGCAGCCCTGTGGGAA  
 GAAATGGTGGCCATGGCTGGAGGCAAACACAGATCACCTTGCAGGGGCTGACATCAAGAGCGTCGTCTT  
 CAAAGGTAAAAAAGCGTGGTCACTGGGGAGATTGGATTAGATGATGTGAGCTTAAAAAAGGCCAC  
 TGCTCTGAAGAACGC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG216417 representing NM\_001033047  
 Red=Cloning site Green=Tags(s)

MDFLLALVLVSSLYLQAAAEFDGRWPRQIVSSIGLCRYGGRIDCCWGWARQSWGQCQPVCPQPRCKHGECI  
 GPNKCKCHPGYAGKTCNQDLNECGLKPRPCKHRCMNTYGSYKCYCLNGYMLMPDGSCSSALTCSMANCQY  
 GCDVVKGQIRCQCPSPGLQLAPDGRTCVDVDECATGRASCPRFRQCVNTFGSYICKCHKGFDFLMIYGGKY  
 QCHDIDECSLGQYQCSSFARCYNIRGSYKCKKEGYQGDGLTCVYIPKVMIEPSGPIHVPKNGTILKGD  
 TGNNNWIPDVGSTWPPKTPYIPPIITNRPTSKPTTRPTPKPTPIPTPPPPPLPTELRTPLPPTTPERP  
 TTGLTTIAPAASTPPGGITVDNRVQTDPOKPRGDVFIIPRQPSNDLFEIFEIERGVSADDEAKDDPGVLVH  
 SCNFDHGLCGWIREKDNDLHWEPIRDPAAGQYLTVSAAKAPGGKAARLVLPGLRMLHSGDLCLSFRHKVT  
 GLHSGTLQVYVFRKHGAHGAALWGRNGGHGWRQTQITLRGADIKSVVFKGEKRRGHTGEIGLDDVSLKKGH  
 CSEER

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**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

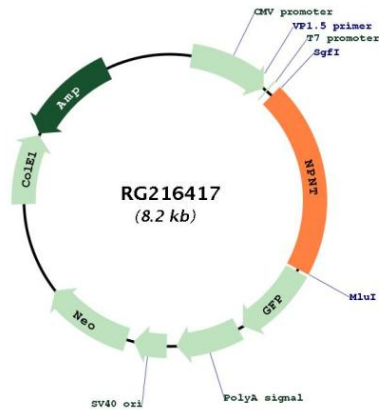
**UniProt ID:** [Q6UXI9](#)

**Cytogenetics:** 4q24

**Protein Families:** Druggable Genome

**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 RG216417