

Product datasheet for **RG230244**

nephronectin (NPNT) (NM_001184692) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | nephronectin (NPNT) (NM_001184692) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | NPNT |
| 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:

>RG230244 representing NM_001184692
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATTTTCTCCTGGCGTGGTGTATCCTCGCTCTACCTGCAGGGCGGCCGCGAGTTCGACGGGA
 GGTGGCCAGGCAAATAGTGTATCGATTGGCCTATGTCGTTATGGTGGGAGATTGACTGCTGCTGGG
 CTGGGCTCGCCAGTCTTGGGGACAGTGTGAGCCTGTGTGCCAACACGATGCAAACATGGTGAATGTATC
 GGGCAAACAAGTGAAGTGTATCCTGGTTATGCTGGAAAACTGTAATCAAGATCTAAATGAGTGTG
 GCCTGAAGCCCCGGCCCTGAAGCACAGGTGCATGAACACTTACGGCAGCTACAAGTGTACTGTCTCAA
 CGGATATATGCTCATGCCGGATGGTTCCTGCTCAAGTGCCTGACCTGCTCCATGGCAAACCTGTCAGTAT
 GGCTGTGATGTTGTTAAAGGACAAATACGGTGCCAGTGCCATCCCCTGGCTGCAGCTGGCTCCTGATG
 GGAGGACCTGTGTAGATGTTGATGAATGTGCTACAGGAAGAGCCTCCTGCCCTAGATTTAGGCAATGTGT
 CAACACTTTTGGGAGCTACATCTGCAAGTGTCAAAAGGCTTCGATCTCATGTATATTGGAGGCAAATAT
 CAATGTATGACATAGACGAATGCTCACTTGGTCAAGTATCAGTGCAGCAGCTTTCGTCGATGTTATAACA
 TACGTGGGTCTACAAGTCAAATGTAAAGAAGGATACCAGGGTATGGACTGACTTGTGTATATATCCC
 AAAAGTTATGATTGAACCTTCAGGTCCAATTTCATGTACCAAAGGGAAATGGTACCATTTTAAAGGGTAC
 ACAGGAAATAATAATTGGATTCTGATGTTGGAAGTACTTGGTGGCCTCCGAAGACCATATATTCCTC
 CTATCATTACCAACAGGCCTACTTCTAAGCCAACAACAAGACCTACACCAAAGCCAAACCAATTCTCTAC
 TCCACCACCACCACCCTGCCAACAGAGCTCAGAACACCTTACCACCTACAACCCAGAAAGGCCA
 ACCACCCGACTGACAACATAGCACAGCTGCCAGTACACCTCCAGGAGGATTACAGTTGACAACAGGG
 TACAGACAGACCCTCAGAAACCCAGAGGAGATGTGTTTCAGTGTTCGTTGTTACACAGTTGTAATTTGACCA
 TGGACTTTGTGGATGGATCAGGGAGAAAAGACAATGACTTGCACTGGGAACCAATCAGGGACCCAGCAGGT
 GGACAATATCTGACAGTGTGCGCAGCCAAAGCCCCAGGGGAAAAGCTGCACGCTTGGTGTACCTCTCG
 GCCGCTCATGCATTAGGGGACCTGTGCTGTATTAGGCACAAGGTGACGGGGCTGCACTCTGGCAC
 ACTCCAGGTGTTTGTGAGAAAACACGGTCCCACGGAGCAGCCCTGTGGGGAAGAAATGGTGGCCATGGC
 TGGAGGCAAACACAGATCACCTTGCAGGGGCTGACATCAAGAGCGTCGCTTCAAAGGTGAAAAAGGC
 GTGGTCACACTGGGGAGATTGGATTAGATGATGTGAGCTTGAAAAAGGCCACTGCTCTGAAGAACGC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230244 representing NM_001184692
 Red=Cloning site Green=Tags(s)

MDFLLLALVLVSSLYLQAAAEFDGRWPRQIVSSIGLCRYGGRIDCCWGWARQSWGQCQPVCQPRCKHGECI
 GPNKCKCHPGYAGKTCNQDLNECGLKPRPCKHRCMNTYGSYKCYCLNGYMLMPDGCSSALTCSMANQY
 GCDVVKGQIRQCPSPLQLAPDGRTCVDVDECATGRASCPFRQCNTFGSYICKCHKGFDLMIYGGKY
 QCHDIDECSLGQYQCSSFARCYNIRGSYKCKEKGQGDGLTCVYIPKVMIEPSGPIHVPKNGTILKGD
 TGNNNWIPDVGSTWPPKTPYIPPIITNRPTSKPTTRPTPKPTPIPTPPPPPLTELRTPLPPTTPERP
 TTGLTTIAPAASTPPGGITVDNRVQTDQKPRGDVFSVLVHSCNFDHGLCGWIREKDNDLHWEPIRDPAG
 GQYLTVSAAKAPGGKAARLVPLGRLMHSGLDCLSFRHKVTGLHSGTLQVVRKHGAHGAALWGRNGGHG
 WRQTQITLRGADIKSVVFKGKRRRGTGEIGLDDVSLKKGHCSEER

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

| | |
|-------------------------------|---|
| ACCN: | NM_001184692 |
| ORF Size: | 1608 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: | <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_001184692.2 |
| RefSeq Size: | 4505 bp |
| RefSeq ORF: | 1611 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] |