

Product datasheet for **RN213190**

Optn (NM_145081) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Optn (NM_145081) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Optn
Synonyms:	Fip2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN213190 representing NM_145081
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCCCATCAACCTCTGAGCTGCCTGACTGAGAAGGGGACAGCTCCTGTGAGACCCAGGAAATGGAC
 CCTCCAATATGGTTCACCCCAACCTGGACACATCACTCCTGAGGAGCTGCTGCAGCAAATGAAAGAACT
 CCTGGTCGAGAACCACAGCTGAAAGAAGCCATGAAGCTAAATAATCAAGCTATGAAAGGGCGATTTGAG
 GAGCTTTCTGCCTGGACAGAGAGGCAGAAGGAAGAAGCCAGTTGTTTGAGATACAAAGCAAAGAGGCTA
 AGGAGCGCCTCAAGGCCCTGAGTCATGAAAATGAGAGGCTGAAGGAAGAGCTTGGAAAATAAAAGAGAA
 ATCAGAAAAGGCCATTTGAAGACATCACAGGTAGATGCGGGTTTCCAGAACCAGCTTGGAGCAGGAAGTG
 GGAGCAACTGAAGAGGCAGGTGGAGCAGGAAGTGGAGCATCTGAAGATCCAGGTGAGGCGCCTTCAGGCT
 TGAGAAAGCGGACCTTGCTGGGGCATTCTGCTCAGACTGCAGCTCAAGCTCAACTCCGGCGGCTCCTCAG
 AAGACTCCTTCGTGGAGACAGGATGACTGAAGGAGAGGCGGAAGGGGCAATGAAGGAGATGAGGAACAGC
 GCTGGACCCACAAGGACAGACTCCATCATATGGGCAAATGTACAGAGGACGCCAGGACTTGTGTGGAGT
 TTGAGGAACTGACTGTGAGCCAACCTCCTGCTTTGCCTCAGGGAAGGAAACCAAAAGGTGGAGAGACTCGA
 GATCGCGCTCAGAGAAGCCAAAGAAAGAAATTTAGATTTTGAAGAAAGCAAACGGCCATTCTGCGATT
 GAAACCCAGACAGAGGGGAGCACACAAAAGAAGAGGAGGACAAAGACCCAGAGAGTGTGGGAATCGAAG
 TGGAAACTCTGAACGTTCAAGTGGCCTCTCTGTTAAGGGGCTTCAAGAGGCGCACAAAAGCTCAGTGA
 GGCCGAGCTGATGAAGAAGAGACTTCAAGAAAAGTGTGAGGCTCTGGAAGGAAGAACTCTGCAACCCCA
 TCGGAAATCAAGATGGAGCAGGCCAAGACAGAGGAGGAGAAATCCAGGTTAGCCACTTTCAGGCAAC
 GCTCGGAAATCAAGATGGAGCAGGCCAAGACAGAGGAGGAGAAATCCAGGTTAGCCACTTTCAGGCAAC
 ACACGACAAGCTCCTTCAGGAACACAATAAAGCTCTGAGAACAATTGAAGAACTAACCAACAACAGGCA
 GAAAAAGTGGACAAGGTGCAGCTGCAGGAGCTCAGCGAGAAGCTGGAGCTGGCGGAGCAGGCTCTGGCGT
 CCAAGCAGCTCCAGATGGATGAGATGAAGCAGACCATCGCCAAGCAGGAGGAGGACTGGAGACCATGGC
 CGTCTCAGGGCTCAGATGGAGGTGACTGTTTCAAGATTTCCATGCTGAGAGGGCAGCAAGGGAGAAGATC
 CATGAGGAAAAGGAGCAGCTGGCCTTGCAGCTCGCCATTTTCTGAAAGAGAACAATGACTTTGAAGATG
 GAGGCAGTAGGCAGTCTTATGAAATGCAGTGCCGGCACGGGGCGAGAACCAGCGACTCTGACCAGCA
 GGCTTACCTGTTTCAAAGAGGAGCAAGGACATGAGCTGGCAGCATGGGCAGCAGCCCCGGAGTATCCC
 ATTCACTCGTGCCCAAGTGTGGGGAGGTCTGCCGGACATTGACACGCTTCAGATACATGTGATGGACT
 GTATCATCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_145081

Insert Size: 1761 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_145081.3](#), [NP_659549.2](#)

RefSeq Size: 3577 bp

RefSeq ORF: 1761 bp

Locus ID: 246294

UniProt ID: [Q8R5M4](#)

Cytogenetics: 17q12.3

Gene Summary: an injury induced protein; human homolog may be linked to glaucoma [RGD, Feb 2006]