

Product datasheet for **RR213190**

Optn (NM_145081) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR213190 representing NM_145081
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCCCATCAACCTCTGAGCTGCCTGACTGAGAAGGGGACAGCTCCTGTGAGACCCAGGAAATGGAC
 CCTCCAATATGGTTCACCCCAACCTGGACACATCACTCCTGAGGAGCTGCTGCAGCAAATGAAAGAACT
 CCTGGTCGAGAACCACAGCTGAAAGAAGCCATGAAGCTAAATAATCAAGCTATGAAAGGGCGATTTGAG
 GAGCTTTCTGCCTGGACAGAGAGGCAGAAGGAAGAAGCCAGTTGTTTGAGATACAAAGCAAAGAGGCTA
 AGGAGCGCCTCAAGGCCCTGAGTCATGAAAATGAGAGGCTGAAGGAAGAGCTTGGAAAATAAAAGAGAA
 ATCAGAAAAGGCCATTTGAAGACATCACAGGTAGATGCGGGTTTCCAGAACCAGCTTGGAGCAGGAAGTG
 GGAGCACTGAAGAGGCAGGTGGAGCAGGAAGTGGAGCATCTGAAGATCCAGGTGAGGCGCCTTCAGGCT
 TGAGAAAGCGGACCTTGCTGGGGCATTCTGCTCAGACTGCAGCTCAAGCTCAACTCCGGCGGCTCCTCAG
 AAGACTCCTTCGTGGAGACAGGATGACTGAAGGAGAGGCGGAAGGGCAATGAAGGAGATGAGGAACAGC
 GCTGGACCCACAAGGACAGACTCCATCATCATGGGCAAATGTACAGAGGACGCCAGGACTTGTGTGGAGT
 TTGAGGAACTGACTGTGAGCCAACCTCCTGCTTTGCCTCAGGGAAGGAAACCAAAAGGTGGAGAGACTCGA
 GATCGCGCTCAGAGAAGCCAAAGAAAGAAATTTAGATTTTGAAGAAAGCAAACGGCCATTCTGCGATT
 GAAACCCAGACAGAGGGGAGCACACAAAAGAAGAGGAGGACAAAGACCCAGAGAGTGTGGGAATCGAAG
 TGGAAACTCTGAACGTTCAAGTGGCCTCTCTGTTAAGGGGCTTCAAGAGGCGCACAAAAGCTCAGTGA
 GGCCGAGCTGATGAAGAAGAGACTTCAAGAAAAGTGTGAGGCTCTGGAAGGAAGAACTCTGCAACCCCA
 TCGGACTGAATGAAAAGCAAGAGCTCGTTTACAGTAACTGGAAGTTAGAGCTGCAGGTGGAGAGCATGC
 GCTCGGAAATCAAGATGGAGCAGGCCAAGACAGAGGAGGAGAAATCCAGGTTAGCCACTTTCAGGCAAC
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 GAAAAAGTGGACAAGGTGCAGCTGCAGGAGCTCAGCGAGAAGCTGGAGCTGGCGGAGCAGGCTCTGGCGT
 CCAAGCAGCTCCAGATGGATGAGATGAAGCAGACCATCGCCAAGCAGGAGGAGGACTGGAGACCATGGC
 CGTCTCAGGGCTCAGATGGAGGTGACTGTTTCAAGATTTCCATGCTGAGAGGGCAGCAAGGGAGAAGATC
 CATGAGGAAAAGGAGCAGCTGGCCTTGCAGCTCGCCATTTTGTGAAAGAGAACAATGACTTTGAAGATG
 GAGGCAGTAGGCAGTCTTATGAAATGCAGTCCGGCAGGGGCGAGAACCAGCGACTCTGACCAGCA
 GGCTTACCTGTTTCAAAGAGGAGCAAGGACATGAGCTGGCAGCATGGGCAGCAGCCCCGAGTATTCCC
 ATTCACTCGTGCCCAAGTGTGGGGAGGTCTGCCGGACATTGACACGCTTCAGATACATGTGATGGACT
 GTATCATCGTATCATC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213190 representing NM_145081
 Red=Cloning site Green=Tags(s)

MSHQPLSCLTEKGDSSCETPGNGPSNMVHPNLDTFPEELLQQMKELLVENHQLKEAMKLNQAMKGRFE
 EL SAWTERQKEERQLFEIQSKEAKERL KALSHENERLKEELGKLKEKSERPFEDITGRCGFPRTDLEQEV
 GATEEAGGAGSGASEDPGEAPSGLRKRTLLGHSSQTAAQAQLRLLRLLRGRDRMTEGEAEAGAMKEMRNS
 AGPTRTDSIIMGKCTEDARTCVFEELTVSQQLLCLREGNQKVERLEIALREAKERISDFEKKANGHSAI
 ETQTEGSTQKEEEDKDPE SVGIEVETLNVQVASF KGLQEHTKLSEAE LMKKRLQEKCQALERKNSATP
 SELNEKQELVYSNWKLELQVESMRSEIKMEQAKTEEEKSRLATLQATHDKLLQEHNKALRTIEELTKQQA
 EKVDKVQLQELSEKLELAEQALASKQLQMDMKQTI AKQEEDLETM AVLRAQMEVYCSDFHAERAAREKI
 HEEKEQLALQLAILLKENNDFEDGGSRSQSLMEMQCRHGARTSDSDQAYL FQRGAKDMSWQHGGQPPRSIP
 IHSCPCKGEVLPDIDLQIHVMDCIIIVS

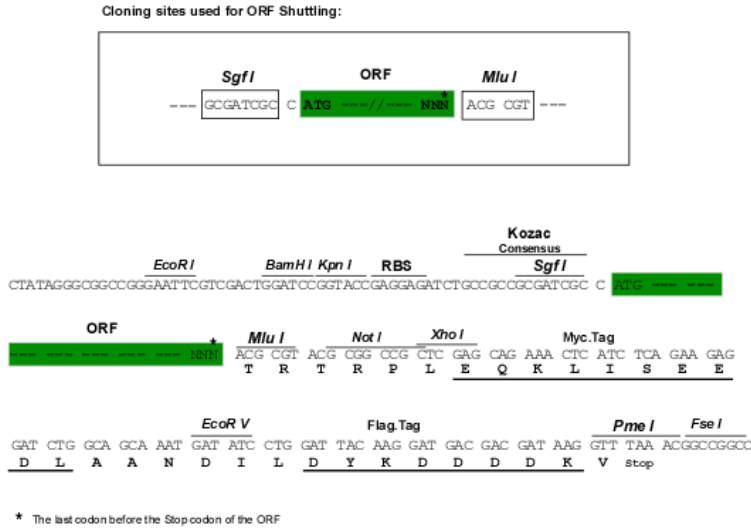
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1711_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145081

ORF Size: 1758 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_145081.3](#), [NP_659549.2](#)

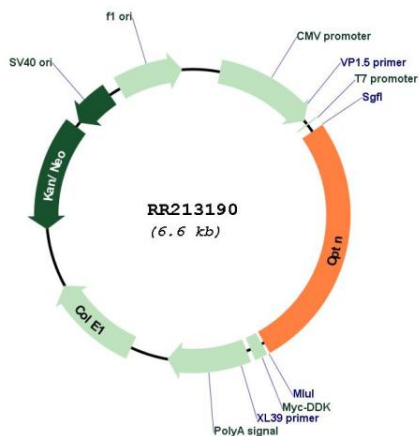
RefSeq Size: 3577 bp

RefSeq ORF: 1761 bp

Locus ID: 246294

UniProt ID: [Q8R5M4](#)
 Cytogenetics: 17q12.3
 MW: 66.5 kDa
 Gene Summary: an injury induced protein; human homolog may be linked to glaucoma [RGD, Feb 2006]

Product images:



Circular map for RR213190