

Product datasheet for MR206202

Rtn4ip1 (NM_130892) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Rtn4ip1 (NM_130892) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Rtn4ip1 |
| Synonyms: | D10Erttd690e; NIMP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR206202 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCGTTTTGAAGACCTGTGTACTTAGAAGAAGTGCTTGCCCGCCTGCTTCTGGAGAAGGACAG
TTATCCCAAAGCCACCATTTAGAGGCATTAGTACTACGCTCTGCGAGGAGCACTGTCATGCCCGCTTGGGT
GATAGATAAATATGGAAGAATGAAGTCTTCGATTCACCCAGAACATGATGTTACCTATCATACTACT
CCAAATGAAGTCATTATCAAAGTCCACGCTGCCAGTGAAATCCTATAGATGTTAATATGAGAAGTGTT
ATGGAGCCACAGCCCTAAATATGAAGCGTGATCCCTGCATATGAAAACCAAAGGAGAAGAGTTTCTCT
GACTCTGGGTCGGGATGTCTCTGGTGTGGTGATGGAGTGTGGGCTTGATGTGAAGTATTTCCAGCCTGGA
GATGAGGTCTGGGCTGCAGTTCCTCCTTGAAGCAAGGCACTCTCTCAGAATTTGTTGTGGTCAGTGGGA
ATGAGGTTTCACACAAGCCAAATCGCTTACTCATACTCAAGCTGCCTCTTTGCCATATGTGGCTCTCAC
GGCCTGGTCTGCCATAAACAAGTTGGCGGCTGAGTGACAGGAACTGCAAGGGGAAGCGTGCCTTAATC
TTGGGTGCGTCAGGTGGAGTTGGTACTTTTGGCATACAGGTAATGAAAGCATGGGGGCTCATGTGACAG
CCGTTTGCTCGAAAGATGCCAGTGAACCTGTGCGGAAGCTTGAGCAGATGAGGTATTGATTACAGTT
GGGAAGTGTGGAAGAGCAATTGAAATCTCTAAAAGTGGTCAAGGACTGTTGACTTTATCCTTGATAACGTTGGTGGATCT
ACTGAAACATGGGCTCTAAATTTTCTCAAGAAGTGGTCAAGGACTACCTATGTGACTCTGGTGCCTT
TCCTCCTGAACATGGACCGACTGGGTGTTGCTGATGGCATGTTGCAGACAGGAGTACCCTGGGTACAAA
GGCATTGAAGCATCTCTGGCAAGGAGTCCATTACAGATGGGCTTCTTTCATGGCCAGTGGTCCATATCTA
GATGAAATTGCAGAACTGGTGGATGCAGGAAAGATCCGGCCAGTTATTGAGCGGACATTCCTTTCTCTG
AAGTCCCAGAAGCCTTCTGAAGGTGGAGAGAGGCCACGCCGAGGAAAGACTGTGGTTAATGTAGTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206202 protein sequence
Red=Cloning site Green=Tags(s)

MGVLKTCVLRRSACAAACFWRRTVIPKPPFRGISTTSARSTVMPAWIDKYGKNEVLRFTQNMLPIIHY
 PNEV I I K V H A A S V N P I D V N M R S G Y G A T A L N M K R D P L H M K T K G E E F P L T L G R D V S G V V M E C G L D V K Y F Q P G
 D E V W A A V P P W K Q G T L S E F V V V S G N E V S H K P K S L T H T Q A A S L P Y V A L T A W S A I N K V G G L S D R N C K G K R A L I
 L G A S G G V G T F A I Q V M K A W G A H V T A V C S K D A S E L V R K L G A D E V I D Y T L G S V E E Q L K S L K L F D F I L D N V G G S
 T E T W A L N F L K K W S G A T Y V T L V T P F L L N M D R L G V A D G M L Q T G V T V G T K A L K H L W Q G V H Y R W A F F M A S G P Y L
 D E I A E L V D A G K I R P V I E R T F P F S E V P E A F L K V E R G H A R G K T V V V N V V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_130892

ORF Size: 1191 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_130892.5](#)

RefSeq Size: 2981 bp

RefSeq ORF: 1191 bp

Locus ID: 170728

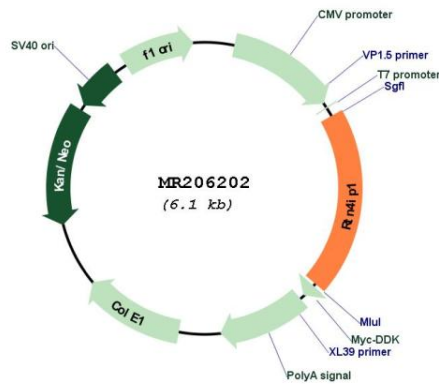
UniProt ID: [Q924D0](#)

Cytogenetics: 10 23.12 cM

MW: 43.4 kDa

Gene Summary: Plays a role in the regulation of retinal ganglion cell (RGC) neurite outgrowth, and hence in the development of the inner retina and optic nerve (PubMed:26593267). Appears to be a potent inhibitor of regeneration following spinal cord injury (PubMed:12067236).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206202