

## Product datasheet for **MG206202**

### Rtn4ip1 (NM\_130892) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rtn4ip1 (NM_130892) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rtn4ip1
Synonyms:	D10Erttd690e; NIMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206202 representing NM_130892 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCGTTTTGAAGACCTGTGTACTTAGAAGAAGTGCTTGCCCGCCTGCTTCTGGAGAAGGACAG  
TTATCCCAAGCCACCATTTAGAGGCATTAGTACTACGCTCTGCGAGGAGCACTGTCATGCCCGCTTGGGT  
GATAGATAAATATGAAAGAATGAAGTCTTCGATTCACCCAGAACATGATGTTACCTATCATACTACT  
CCAAATGAAGTCATTATCAAAGTCCACGCTGCCAGTGAAATCCTATAGATGTTAATATGAGAAGTGTT  
ATGGAGCCACAGCCCTAAATATGAAGCGTGATCCCTGCATATGAAAACCAAGGAGAAGAGTTTCTCT  
GACTCTGGGTCGGGATGTCTCTGGTGTGGTGATGGAGTGTGGGCTTGATGTGAAGTATTTCCAGCCTGGA  
GATGAGGTCTGGGCTGCAGTTCCTCCTTGAAGCAAGGCACTCTCTCAGAATTTGTTGTGGTCAGTGGGA  
ATGAGGTTTCACACAAGCCAAATCGCTTACTCATACTCAAGCTGCCTCTTTGCCATATGTGGCTCTCAC  
GGCCTGGTCTGCCATAAACAAGTTGGCGGCTGAGTGACAGGAACTGCAAGGGGAAGCGTGCCTTAATC  
TTGGGTGCGTCAGGTGGAGTTGGTACTTTTGGCATACAGGTAATGAAAGCATGGGGGCTCATGTGACAG  
CCGTTTGCTCGAAAGATGCCAGTGAAGTGTGCGGAAGCTTGAGCAGATGAGGTCATTGATTACAGTT  
GGGAAGTGTGGAAGAGCAATTGAAATCTCTAAAAGTGGTCAAGGACTACCTATGTGACTCTGGTGATCCTT  
ACTGAAACATGGGCTCTAAATTTTCTCAAGAAGTGGTCAAGGACTACCTATGTGACTCTGGTGATCCTT  
TCCTCCTGAACATGGACCGACTGGGTGTTGCTGATGGCATGTTGCAGACAGGAGTACCCTGGGTACAAA  
GGCATTGAAGCATCTCTGGCAAGGAGTCCATTACAGATGGGCCTTCTTCATGGCCAGTGGTCCATATCTA  
GATGAAATTGCAGAACTGGTGGATGCAGGAAAGATCCGGCCAGTTATTGAGCGGACATTCCTTTCTCTG  
AAGTCCCAGAAGCCTTCTGAAGGTGGAGAGAGGCCACGCCGAGGAAAGACTGTGGTTAATGTAGTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206202 representing NM\_130892  
 Red=Cloning site Green=Tags(s)

MGVLKTCVLRRSACAAACFWRRTVIPKPPFRGISTTSARSTVMPAWIDKYGKNEVLRFTQNMLPIIHY  
 PNEVIIKVHAASVNPIDVNMRSYGATALNMKRDPLHMKTKGEEFPLTLGRDVSQVMECGLDVKYFQPG  
 DEVWAAVPPWKQGTLESEFVVVSGNEVSHKPKSLTHTQAASLPYVALTAWSAINKVGLSDRNCKGKRALI  
 LGASGGVGTFAIQMKAWGAHVAVCSKDASELVRKLGADVIDYTLGSVEEQLKSLKLFDFILDNVGGS  
 TETWALNFLKKWSGATYVTLVTPFLLNMDRLGVADGMLQTGVTGTALKHLWQGVHYRWAFFMASGPYL  
 DEIAELVDAGKIRPVIERTFPFSEVPEAFKVERGHARGKTVVNVV

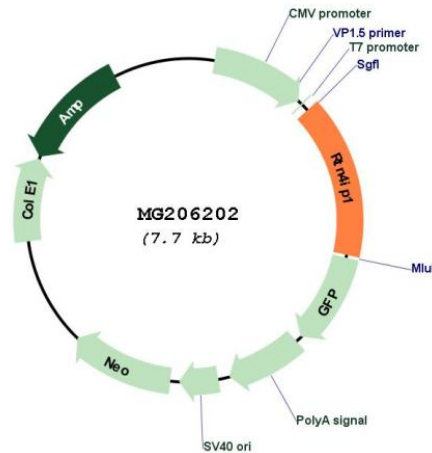
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_130892

<b>ORF Size:</b>	1188 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_130892.5</a>
<b>RefSeq Size:</b>	2984 bp
<b>RefSeq ORF:</b>	1191 bp
<b>Locus ID:</b>	170728
<b>UniProt ID:</b>	<a href="#">Q924D0</a>
<b>Cytogenetics:</b>	10 23.12 cM
<b>Gene Summary:</b>	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]