

## Product datasheet for **MG209091**

### **NoI5a (BC021355) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NoI5a (BC021355) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NoI5a
Synonyms:	NOP56
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG209091 representing BC021355  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTTTCTGCTGCACGTGCTGTTTCGAGCATGCGGTGCGCTACGCGCTGTTGGCGCTGAAGGAAGTGGAGG  
 AGATCAGCCTGCTGCTGCCGAGGTGGAGGAATGTGTGCTTAACCTTGGCAAATCCACAATGTCGTTCCG  
 TCTGGTGGCCTTCTGTCCCTTCTTTCATCCCAGGTGGCCTTGGAAAATGCCAATGCTGTGTCTGAAGGT  
 GTTGTTCACGAGGACCTCCGCTGCTCCTGGAGACATACCTGCCATCTAAAAAGAAGAAAGTACTTCTGG  
 GGGTTGGAGACCCCAAGATTGGTGTGCAATACAGGAAGAGTTGGGGTACAACCTGCCAGACTGGTGGTGT  
 GATAGCTGAGATCCTTCGAGGAGTTCGTCTGCATTTCCATAATCTGGTGAAGGGTCTGACAGATCTTTCT  
 GCTTGTAAAGCCAGCTAGGGCTGGGACACAGCTACTCTCGTCCAAAGTTAAATTTAATGTGAACCGAG  
 TGGACAACATGATTATTCAGTCCATAAGCCTCCTGGACCAACTGGATAAAGATATCAATACCTTCTCGAT  
 GCGTGTACAGGAGTGGTATGGGTACCACCTTCCAGAGCTGGTGAAGATCGTCAATGACAACGCCACATAC  
 TGTGCTTGGCTCAGTTCATTGGGAACCGCAGGGAGCTGAATGAAGAGAAGTTAGAGAACTGGAAGAAA  
 TTACGATGGACGGGGCCAAAGGCTAAGGCCATCTTGGATGCTTCTCGGTCTCCATGGGCATGGACATATC  
 TGCTATCGACTTGATAAACATCGAGAGCTTCTCCAGTCGTGTGGTGTCTTGTGACAGATATCGCCAGAGC  
 CTACACACTTACCTTCGCTCCAAGATGAGCCAAGTAGCCCCAGCCTGTGAGCCTTAATTGGGGAAGCGG  
 TAGGTGCACGCCTCATTGCTCATGCTGGCAGCCTCACCAACTGGCCAAGTATCCAGCGTCCACAGTACA  
 GATCCTTGGGGCTGAAAAGGCCCTGTTCCAGAGCCTGAAGACAAGGGGTAACACACCAAAATATGGACTC  
 ATTTTTTATTCCACCTTATTGGCCGAGCAGCTGCAAAGAACAAGGCCGATCTCCCGATACCTAGCAA  
 ACAAATGCAGTATTGCCCAAGAATTGATTGCTTCTCTGAGGTCCCACAAGTGTATTTGGGAAAAACT  
 CCGAGAACAAGTTGAGGAACGGCTGTCTTTCTATGAGACTGGAGAGATCCACGGAAGAACCTGGATGTC  
 ATGAAGGAAGCTGTGGTTCAGGCAGAGGAAGCGGCTGCTGAAATCGCCAGAAAGCTGGA AAAACAGGAGA  
 AGAAGCGCTTGAAGAAGGAAAAGAAGCGACTGGCTGCACTGGCCCTGGCCTCGTCAGAAAACAGCAGTAC  
 CCCAGAGGAGTGTGAGGAGGTAATGAAAAATCTAAGAAGAAAAAGAAAGTTAAAACCCAGGAAAAATGGA  
 ATGGAAGACCCACCTGTCTCTACCTAAATCCAAGAAAAAGAAAGCTCCAAGGAGGAGTTGGCCAGTG  
 ACCTTGAAGAGATGGCCACTAGCAGTGTAAAGAGAAAGAAAGTCTCACCTAAGGAGGAAGTGGCCAGTGA  
 ACCAGAAGAGGCAGCAAGCCCCACCACCCTAAGAAGAAAAAGAAATTTCTGAGGAGCCTGAAGTTGCT  
 GCTAACTTCAAAAGAGCAGCACAAAGAAAAAGAAAAAGTCCCAGAAAGCACAGGAGGAT

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG209091 representing BC021355  
 Red=Cloning site Green=Tags(s)

MVLLHVLFEHAVGYALLALKEVEEISLLLPQVEECVNLGKFNHNVRLVAFCPFSSSQVALENANAVSEG  
 VVHEDLRLLELYLPSKKKKVLLGVDPKIGAAIQEELGYNCQTGGVIAEILRGVRLHFHNLVKGLTDLS  
 ACKAQLGLGHSYSRAKVKFNVRVDNMIIQISILLDQLDKDINTFSMRVREWYGYHFPPELVKIVNDNATY  
 CRLAQFIGNRRELNEEKLEKLEEITMDGAKAKAILDASRSMGMDISIDLINIESFSSRVVSLSEYRQS  
 LHLYLRSKMSQVAPSLSALIGEAVGARLIAHAGSLTNLAKYPASTVQILGAEKALFRALKTRGNTPKYGL  
 IFHSTFIGRAAAKNKGRISRYLANKCSIASRIDCFSEVPTSVFGEKLRQVEERLSFYETGEIPRKNLDV  
 MKEAVVQAEAAAAEIAKLEKQEKRLKKEKRLAALALASSENSSTPEECEEVNEKSKKKKKLKPQENG  
 MEDPPVSLPKSKKKKAPKEELASDLEEMATSSAKRKKSSPKKEEVASEPEEAASPTTPKKRKFSEPEVA  
 ANFTKSSTKSKKKKSQAQED

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** BC021355

**ORF Size:** 1742 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:** [BC021355](#), [AAH21355](#)

**RefSeq Size:** 1890 bp

**RefSeq ORF:** 1742 bp

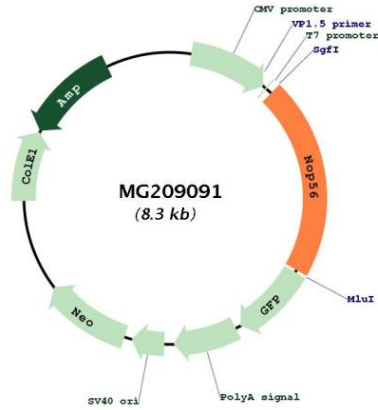
**Locus ID:** 67134

**Cytogenetics:** 2 F1

**Gene Summary:**

Involved in the early to middle stages of 60S ribosomal subunit biogenesis. Core component of box C/D small nucleolar ribonucleoprotein (snoRNP) particles. Required for the biogenesis of box C/D snoRNAs such U3, U8 and U14 snoRNAs (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG209091