

## Product datasheet for **MG208219**

### **Toe1 (NM\_026654) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Toe1 (NM_026654) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Toe1
Synonyms:	4930584N22Rik; 4933424D16Rik; AI413517
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208219 representing NM\_026654  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCGCAGACAGTGCAGATGGTGTGCCTCCAGTTCCAACGTCCTCTGACGGTGGTGTCAACAAAAACA  
 CACAATCTGCAGAGGAGTTTGTGGTTCGGTTCCTGTGGTAGACGTGCAGAGTGACAACCTCAAGGAGAT  
 ATGGCCATCACTCTTGCTAGCCTTAAAGACAGCTAGCTTTGTGGCTGTGGACACGGAGCTGAGTGGGCTC  
 GGGGATAGGAAGAGTTTGTGAACAGTGCATTGAGAACGTTACAAGGCCGTGTGTCATGCTGCCAGGA  
 CCCGTTCTGTCTGTCCCTGGCCCTCGCTGCTTCAGGCAGCAACCAGATAAGGGTGAAAATTTCTACTT  
 GGCTCAAGTGTTCATCTCACCTGCTATGCATGGAGGAGTACGTTATAGAACCAGAGTCTGTGCAGTTC  
 CTGGTACAGCATGGCTTCAATTTCAACCGCAGTACGCCAGGGTATCCCCTACCATAAGGGCAATGACA  
 AGGGAGATGAGAGCCAGAGCCAGTCCGTACGGACGCTGTTCTTGAAGTATTGGGCCCCAGGCCCCCT  
 GGTGCTACATAATGGCCTTATAGACTTGGTGTTCCTGTACCAGAAATTTCTACGCGCACCTGCCTGAGAAC  
 TTGGGGACCTTCACTGCTGACCTGTGTGAGATGTTCCACAGGATCTATGACACCAAATATGCCGCCG  
 AGTTCCATGCCCGATTTGTAGCTTCTACTTAGAATACGCTTTCGGAAATGTGAGCGGGGAGAATGGGAA  
 GCAGCGGGCAGCTGGCAGCCACATCTTGCCCTGGAATTTCTGCAGCTATCCATCTAGCATGAGAGGGCAC  
 ATTGACTACCGCTGCTGTATGTCCCCTGGGACCTGCCGTCTTCTCGTACCCTGGCATCTGTGACAAGT  
 TCTCGGCTATGGCTGGTGTCTCTGGGACCACAGTGTCTCAGTCACACGATATTGACCTTATAATTGA  
 CACTGATGAGGCTGTGGCAGAAGATAAGCGGGGAGACGGCGACGTAAGGACAAACGGAAGAGGTCTTTA  
 CAGAGCCAACAGGGACACAGACCCTTGTGGAAGCTGAAGATGGTCTCCACAAACGAGGTCTGTGAAG  
 ATAGCTCGAGACTGAGAAAAATGGAACAAAAAGTGGCAGAAGTGGAGGCTGGGGATCAGCTGGCTCCAG  
 GGAAGGTCACACAAGTAGCTTGGAGATGGCACATAGGAGGACAAGTGTGAAACAGCTGATGTGGCCACC  
 TCAGAGCTGCTGGTGAACCAAGCCAGCACTAACCCGTGCCTGGGGACGGACTGCATCGTCTGTTTTG  
 ACGCCTTTATGACAGGCTATGTGATGGCCTATGTGGCCTGAGCCAGGGACTTCAACTCTGCAGCTCTGA  
 ACCTTGGCTTCTGAATGTCACAACAAGGTATATCTAAGTGGCAAACTGTACCCCTCACAGTGACCAAG  
 AGCCAGTTTTCCCGTCCATCCAAAGCCACAACCAGAAAATGAAGCTGGCTTGGGGCAGCAGC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208219 representing NM\_026654  
 Red=Cloning site Green=Tags(s)

MAADSDDGVPVPTSSDGGVKNKNTQSAEEFVVRVPVVDVQSDNFKEIWPSLLLALKTASFVAVDTELSGL  
 GDRKSLLNQCIERYKAVCHAARTSVLSLGLACFRQPPDKGENSYLAQVFNLTLLCMEEYVIEPKSVQF  
 LVQHGFNFRQYAQGIPIYHKGNKGDDESQSVRTLFLLELIRARRPLVLHNGLIDLVLQNFYAHLPEN  
 LGFTADLCEMFPAGIYDTKYAAEFHARFVASYLEYAFRKCERENKQRAAGSPHLALEFCSYPSSMRGH  
 IDYRCCMSPGTCRRSRTTGI CDKF SAYGWCP LGPQCPQSHDIDL I IDTDEAVAEDKRRRRRRKDKRKRSL  
 QSQPGTQTLVEAEDGPPTKQVCEDSLETEKMEQKVAEAGEAGDQPGSREGHTSSLEMAHRRRTSAETADVAT  
 SELLVNQASTNPVPGDGLHRAGFDAMFTGYVMAYVGLSQGLQLCSSEPWLPECHNKVYLSGKTVPLTVTK  
 SQFSRPSKAHNQKMKLAWGSS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_026654

**ORF Size:** 1533 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\\_026654.2](#), [NP\\_080930.1](#)

**RefSeq Size:** 2008 bp

**RefSeq ORF:** 1536 bp

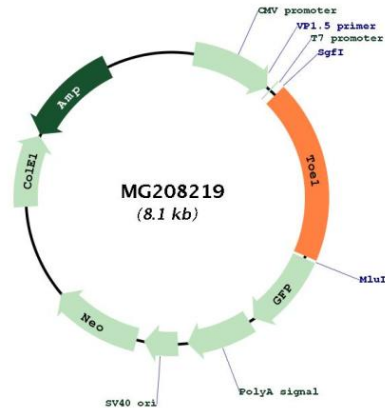
**Locus ID:** 68276

**UniProt ID:** [Q9D2E2](#)

**Cytogenetics:** 4 D1

**Gene Summary:**

Inhibits cell growth rate and cell cycle. Induces CDKN1A expression as well as TGF-beta expression. Mediates the inhibitory growth effect of EGR1. Involved in the maturation of snRNAs and snRNA 3'-tail processing.[UniProtKB/Swiss-Prot Function]

**Product images:**

Circular map for MG208219