

## Product datasheet for **MG218338**

### Tom1l2 (NM\_153080) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tom1l2 (NM_153080) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tom1l2
Synonyms:	2900016I08Rik; A730055F12Rik; AU042072; Srebf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG218338 representing NM\_153080  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGTTCCTGCTGGGGAATCCGTTACGACCCCTGTAGGGCAGTGTCTTGAGAAGGCAACAGATGGCT  
 CCCTGCAGAGCGAGGACTGGACACTGAATATGGAGATCTGTGACATCATCAACGAGACAGAGGAAGGGCC  
 AAAGGATGCCATCCGGGCTCTAAAGAAGCGGCTTAGTGGGAACCGAAACTACAGAGAAGTATGTTGGCC  
 CTGACGGTCTGGAGACTTGTGTGAAGAACTGTGGCCACCGCTTTCATCTCCTCGTGGCCAAACCGAGACT  
 TCATCGACAGCGTTCTGGTCAAATTAATCTCTCCAAGAATAACCTCCCACTATCGTCCAGGACAAAGT  
 GCTGGCTCTAATTCAGGCATGGGCAGATGCCTTAGGAGCAGTCTGACCTCACAGGTGTTGTGCACATA  
 TATGAAGAACTGAAGAGGAGGGGATTGAGTCCCATGGCGACTTGGACGCCCTGTCTCTATCCACA  
 CACCCAGCGGAGTGTCCAGAAATGGATCCAGCTGCCACCATTCCAGGTCCAGACACAGCCAGGAC  
 AACCGCTGGCACCTATTCTCACCTCCTCCAGTTCCTACTCTACTCTGCAGGCCCGGCTCTGAGTGTG  
 ACGGGCCCATCACAGCCAATTCAGAACAGATTGCCAGGCTGCGCAGTGAGCTGGACATTGTTCCGGGAA  
 ACACAAAAGTCATGTCTGAGATGTTAACAGAAATGGTCCCTGGGACGAGGATTCTTCTGATCTGGAAT  
 ACTACAGGAATTGAACAGGACCTGCCGAGCCATGCAGCACCGCATAGTGGAGCTCATCTCCCGAGTGTCC  
 AATGAGGAGGTCACCGAGGAGCTGCTGCACGTCAACGATGACCTCAACAATGTCTTCCCTCCGCTATGAGA  
 GGTTCCGAGAGGTACAGGTCCGGCCGATCCGTTTCAAGATGCCAGCAATGGAGTACTAAGCGAAGTACTGA  
 AGACAACCTAATAGACCTGGGCCCGGCTCCCGGCTGTGGTTAGCCCCATGGTGGGAGCACAGCACCC  
 CCATCTTCTCTCTCCTCCAACCTCGCAGGCTTGGACTTGGGACAGAGAGTGTGAGTGGCACCCCTCAGTT  
 CACTTCAGCAGTCAAGCCACAAGATGGTTTTGACATGTTTGGCCAGACCAGAGGAACTCCTTGCTGA  
 ACAGCGAAAAACGGTACCTATGAGGATCCCAGGCTGTTGGAGGACTCGCTTCTGCACTTGACAATCGG  
 AAACAGAACTCAGAAATGATTCCCGTTGCGCAGCCCTCTGTCATGGACGACATTGAGGTGTGGCTCAGGA  
 CAGACCTGAAGGGTGACGACCTAGAAGAGGGTGTCAAGTGAAGAGTTCGATAAGTTTCTGGAAGAAAG  
 AGCCAAAGCTGCAGAAACAGTTCAGACCTGCCCTCACCCCGACAGAGGCCCTGCACCAGCCTCAAAC  
 ACTTCAACCCGGAAGAAGCCAGAGCGCTCCGACGATGCGCTTTTGCCCTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG218338 representing NM\_153080  
 Red=Cloning site Green=Tags(s)

MEFLLGNPFSTPVGQCLEKATDGSLSQEDWTLNMEICDIINETEEGPKDAIRALKKRLSGNRRNYREVMLA  
 LTVLETCVKNCGHRFHLLVANRDFIDSVLVKIIISPKNPPTIVQDKVLALIQAWADAFRSPDLTGVVHI  
 YEELKRRGIEFPMADLDALSPIHTPQRSVPMDPAATIPRSQTQPRTTAGTYSSPPASYSYTLQAPALSV  
 TGPITANSEQIARLRSELDIVRGNTKVMSEMLTEMVPGQEDSSDLELLQELNRTCRAHQHRIVELISRVS  
 NEEVTEELLHVNDLNNVFLRYERFERYRSGRSVQNASNGVLSEVTEDNLDLPGGSPAVVSPMVGSTAP  
 PSSLSSQLAGLDLGTESVSGTSSSLQCKPQDGFDMFAQTRGNSLAEQRKTVTYEDPQAVVGLASALDNR  
 KQNSEMIPVAQPSVMDDIEVWLRTDLKGDLEEGVTSEEDKFLLEERAKAAETVPDLPSPPEAPAPASN  
 TSTRKKPERSDDALFAL

**TRTRPLE** - GFP Tag - V

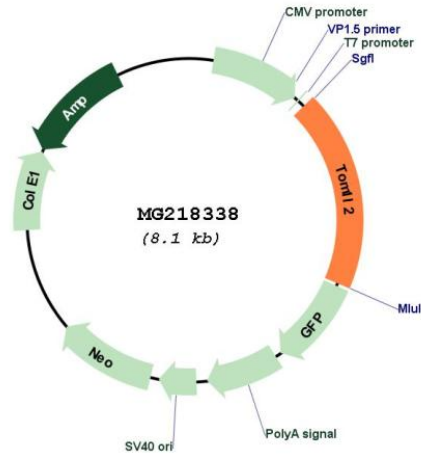
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



**Plasmid Map:**


**ACCN:** NM\_153080

**ORF Size:** 1521 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\\_153080.3](#)

**RefSeq Size:** 5000 bp

**RefSeq ORF:** 1524 bp

**Locus ID:** 216810

**UniProt ID:** [Q5SRX1](#)

**Cytogenetics:** 11 B2

**Gene Summary:** Probable role in protein transport. May regulate growth factor-induced mitogenic signaling (By similarity).[UniProtKB/Swiss-Prot Function]