

## Product datasheet for **MG223811**

### Tnip2 (NM\_139064) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Tnip2 (NM_139064) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tnip2
Synonyms:	1810020H16Rik; ABIN-2; AI428870
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG223811 representing NM_139064 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGCTCTGGGACCCAAGGTCTGGTAGACAGGACGGGGCCCCGCGTGGCGCCGACGGCTCTGTGGCC  
TGTACCACGAGGCCGCGCCAGCAACTACAGCGCTGAAGGATCAGCTGGCCGCGGTGACGCCCTCATCGC  
GAGCCTCCGACCCGCTCGCGCTCTGGAAGGGCACACGGCGCCGTCCTCGTGGACGCACTTCTGGAT  
CAGGTGGAGCGCTTCCGTGAGCAGCTGCGACGACAGGAGGAAGGCGCTTCGGAGACCCAGCTGCGGCAGG  
AAGTTGAAAGACTTACGGAGCGTCTAGAGGAAAAAGAGAGGGAGATGCAACAGCTGATGAGCCAGCCTCA  
GCATGAGCAAGAGAAGGAGGTAGTCTTGCTTCGGCGAAGTGTGGCAGAGAAGGAGAAAGCCAGGGCCGCC  
AGTGATGTTCTGTGCCGCTCCTTGGCTGATGAGACCCACCAACTGCGCAGGACATTGGCAGCCACTGCC  
ACATGTGCCAACATCTGGCCAAATGTCTGGATGAACGACAGTGTGCACAGGGAGACGCTGGGGAGAAAAG  
CCCTGCTGAGCTAGAGCAACAAGCAGCGATGCTTCTGGCCAGAGTGTTATTAAGAAGTTACAGGAAGAA  
AATCGACTGTTAAAACAGAAGGTGACTCATGTAGAAGACCTCAATGCTAAGTGGCAGCGTTATGATGCAA  
GTAGGGACGAATATGTGAAGGGTTGCATGCCAGCTAAAGAGGGCGCAGTCCCTCTGGAGCCTGAGCT  
GATGAAGAAGGAGATTTCCCGACTTAACAGACAGTTGGAGGAGAAAATAAGTGACTGTGCGGAAGCAAAC  
CAGGAGCTGACAGCCATGAGGATGTCCCGGACACTGCGCTGGAGCGAGTGCAGATGCTAGAACAGCAGA  
TTCTTGCTTACAAGGATGACTTCAAATCAGAAAGGGCAGATCGGGAACGAGCGCACAGTAGGATTAAGA  
GCTGGAGGAAAAGATCATGTCCTTGATGTACCAAGTGTCCAGAGACAGGACTCCCGGGAGCCAGGACCC  
TGTGCGATTACACGGGAAACAAAAGTCCAAAGTACTTAGAGATGGATGCACTGGAGCATGTGACCCCTG  
GCGGCTGGAGGCCTGAGTCTAGGTCCCAACAGATGGAACCTTCTGCAGAGGGTGGGCATGTGTGCACAGC  
CCAGAGAGGTGAGGTGACCTTCAGTGCCTCATTGCCTGCGGTGCTTCAGTGATGAGCAAGGGCAGGCA  
TTCCTCAGGCACCTGTCTGAGTGTGCCAA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG223811 representing NM\_139064  
Red=Cloning site Green=Tags(s)

MSSGDPRSQRDGPAAAAALCGLYHEAGQQLQRLKDQLAARDALIASLRTRLAALLEGHTAPSLVDALLD  
 QVERFREQLRRQEEGASETQLRQEVERLTERLEEKEREMQQLMSQPQHEQEKEVLLRRSVAEKEKARAA  
 SDVLCRSLADETHQLRRTLAATAHMCQHLAKCLDERQCAQGDAGEKSPAEELEQTSSDASGQSVIKKLQEE  
 NRLLKQKVTHVEDLNAKWQRYDASRDEYVKGLHAQLKRRQVPLEPELMKKEISRLNRQLEEKISDCAEAN  
 QELTAMRMSRDTALERVQMLEQQILAYKDDFKSERADRERAHRSRIQELEEKIMSLMYQVSQRQDSREP  
 GPCR IHTGNKTAKYLEMDALEHVTPGGWRPESRSQMEPSAEGGHVCTAQRGQDLQCPHCLRCFSDEQGEA  
 FLRHLSECCQ

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_139064

**ORF Size:** 1290 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\\_139064.2](#), [NP\\_620703.1](#)

**RefSeq Size:** 1966 bp

**RefSeq ORF:** 1293 bp

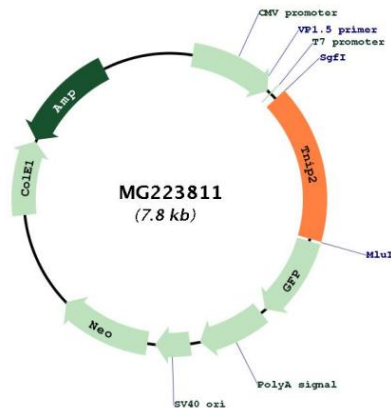
**Locus ID:** 231130

**UniProt ID:** [Q99JG7](#)

**Cytogenetics:** 5 B2

**Gene Summary:** Inhibits NF-kappa-B activation by blocking the interaction of RIPK1 with its downstream effector NEMO/IKBKG. Forms a ternary complex with NFKB1 and MAP3K8 but appears to function upstream of MAP3K8 in the TLR4 signaling pathway that regulates MAP3K8 activation. Involved in activation of the MEK/ERK signaling pathway during innate immune response; this function seems to be stimulus- and cell type specific. Required for stability of MAP3K8. Involved in regulation of apoptosis in endothelial cells; promotes TEK agonist-stimulated endothelial survival. May act as transcriptional coactivator when translocated to the nucleus. Enhances CHUK-mediated NF-kappa-B activation involving NF-kappa-B p50-p65 and p50-c-Rel complexes.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG223811