

Product datasheet for **MG207193**

Tnip2 (BC052083) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnip2 (BC052083) 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)



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ORF Nucleotide Sequence:

>MG207193 representing BC052083
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCGCTCTGGGACCCAAGTCTGGTAGACAGGACGGGGCCCCGCGTGGCGCCGACGCGCTCTGTGGCC
 TGTACCACGAGGCCGCCAGCACTACAGCGCCTGAAGGATCAGCTGGCCGCGCGTGACGCCCTCATCGC
 GAGCCTCCGACCCCGCTCGCGGCTCTGGAAGGGCACACGGCGCCGCTCACTCGTGAGCAGCACTTCTGGAT
 CAGGTGGAGCGCTTCCGTGAGCAGCTGCGACGACAGGAGGAAGGCGCTTCGGAGACCCAGCTGCGGCAGG
 AAGTTGAAAGACTTACGGAGCGTCTAGAGGAAAAAGAGAGGGAGATGCAACAGCTGATGAGCCAGCCTCA
 GCATGAGCAAGAGAAGGAGGTAGTCTTGCTTCGGCGAAGTGTGGCAGAGAAGGAGAAAGCCAGGGCCGCC
 AGTGATGTTCTGTGCCGCTCCTGGCTGATGAGACCCACCACTGCGCAGGACATTGGCAGCCACTGCC
 ACATGTGCCAACATCTGGCCAAATGTCTGGATGAACGACAGTGTGCACAGGGAGACGCTGGGGAGAAAAG
 CCCTGCTGAGGAGGTAAGATGGATCTGTGGCCAGGCCTACACCAAGGACCTGAAAAGCCTCCTGGATGC
 TGCTAGAGCAAACAAGCAGCGATGCTTCTGGCCAGAGTGTATTAAGAAGTTACAGGAAGAAAATCGAC
 TGTTAAAACAGAAGGTGACTCATGTAGAAGACCTCAATGCTAAGTGGCAGCGTTATGATGCAAGTAGGGA
 CGAATATGTGAAGGGTTGCATGCCAGCTAAAGAGGCGGCAGGTCCTCTGGAGCTGAGCTGATGAAG
 AAGGAGATTTCCCGACTTAACAGACAGTTGGAGGAGAAAATAAGTGAAGTGTGCGGAAGCAAACCAGGAGC
 TGACAGCCATGAGGATGTCCCGGACACTGCGCTGGAGCGAGTGCAGATGCTAGAACAGCAGATTCTTGC
 TTACAAGGATGACTTCAAATCAGAAAGGCGAGTCGGGAACGAGCGCACAGTAGGATTCAAGAGCTGGAG
 GAAAAGATCATGTCTTGTGATGTACCAAGTGTCCAGAGACAGGACTCCCGGGAGCCAGGACCTGTCCGA
 TTCATACGGGGAACAAAAGTCCCAAGTACTTAGAGATGGATGCACTGGAGCATGTGACCCCTGGCGGCTG
 GAGGCTGAGTCTAGGTCCCAACAGATGGAACCTTCTGCAGAGGGTGGGCATGTGTGCACAGCCAGAGA
 GGTGAGGGTGACCTTCAGTGCCTCATTGCCTGCGGTGCTTCAAGTATGATGCAAGGCGAGGCATTCTCA
 GGCACCTGTCTGAGTGTGCCAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207193 representing BC052083
 Red=Cloning site Green=Tags(s)

MSSGDPRSGRQDGAPRAAAALCGLYHEAGQQLQRLKDQLAARDALIASLRTRLAALLEGHTAPSLVDALLD
 QVERFREQLRRQEEGASETQLRQEVERLTERLEEKEREMQQLMSQPQHEQEKEVVLLRRSVAEKEKARAA
 SDVLCRSLADETHQLRRTLAATAHMCQHLAKCLDERQCAQGDAGEKSPAEEVRWICQAYTKDLKPPGC
 WLEQTSSDASGQSVIKKLQEENRLLKQKVTHVEDLNAKWQRYDASRDEYVKGLHAQLKRRQVPLEPELMK
 KEISRLNRQLEEKISDCAEANQELTAMRMSRDTALERVQMLEQQILAYKDDFKSERADREHRSRIQELE
 EKIMSLMYQVSQRQDSREPGPCR.IHTGNKTAKYLEMDALEHVTTPGGWRPESRSQQMEPSAEGGHVCTAQR
 GGDLQCPHCLRCFSDEQGEAFLRHLSECCQ

TRTRPLE – GFP Tag – V

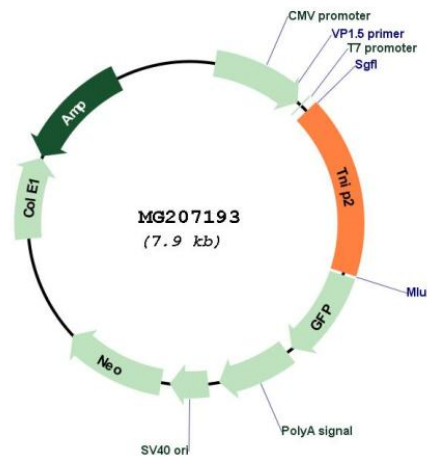
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC052083

ORF Size: 1355 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:	<ol style="list-style-type: none">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:	<u>BC052083</u> , <u>AAH52083</u>
RefSeq Size:	2039 bp
RefSeq ORF:	1355 bp
Locus ID:	231130
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]