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Product datasheet for MR223811

Tnip2 (NM_139064) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnip2 (NM_139064) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tnip2
Synonyms:	1810020H16Rik; ABIN-2; AI428870
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR223811 representing NM_139064
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGTCTGGGGACCCAAGGTCTGGTAGACAGGACGGGGCCCCGCGTGCGGCCGCAGCGCTCTGTGGCC
TGTACCACGAGGCCGGCCAGCAACTACAGCGCCTGAAGGATCAGCTGGCCGCGCGTGACGCCCTCATCGC
GAGCCTCCGCACCCGCCTCGCGGCTCTGGAAGGGCACACGGCGCCGTCACTCGTGGACGCACTTCTGGAT
CAGGTGGAGCGCTTCCGTGAGCAGCTGCGACGACAGGAGGAAGGCGCTTCGGAGACCCAGCTGCGGCAGG
AAGTTGAAAGACTTACGGAGCGTCTAGAGGAAAAAGAGAGGGAGATGCAACAGCTGATGAGCCAGCCTCA
GCATGAGCAAGAGAAGGAGGTAGTCTTGCTTCGGCGAAGTGTGGCAGAGAAGGAGAAAGCCAGGGCCGCC
AGTGATGTTCTGTGCCGCTCCTTGGCTGATGAGACCCACCAACTGCGCAGGACATTGGCAGCCACTGCCC
ACATGTGCCAACATCTGGCCAAATGTCTGGATGAACGACAGTGTGCACAGGGAGACGCTGGGGAGAAAAG
CCCTGCTGAGCTAGAGCAAACAAGCAGCGATGCTTCTGGCCAGAGTGTTATTAAGAAGTTACAGGAAGAA
AATCGACTGTTAAAACAGAAGGTGACTCATGTAGAAGACCTCAATGCTAAGTGGCAGCGTTATGATGCAA
GTAGGGACGAATATGTGAAGGGGTTGCATGCCCAGCTAAAGAGGCGGCAGGTCCCTCTGGAGCCTGAGCT
GATGAAGAAGGAGATTTCCCGACTTAACAGACAGTTGGAGGAGAAAATAAGTGACTGTGCGGAAGCAAAC
CAGGAGCTGACAGCCATGAGGATGTCCCGGGACACTGCGCTGGAGCGAGTGCAGATGCTAGAACAGCAGA
TTCTTGCTTACAAGGATGACTTCAAATCAGAAAGGGCAGATCGGGAACGAGCGCACAGTAGGATTCAAGA
GCTGGAGGAAAAGATCATGTCCTTGATGTACCAAGTGTCCCAGAGACAGGACTCCCGGGAGCCAGGACCC
TGTCGGATTCATACGGGGAACAAAACTGCCAAGTACTTAGAGATGGATGCACTGGAGCATGTGACCCCTG
GCGGCTGGAGGCCTGAGTCTAGGTCCCAACAGATGGAACCTTCTGCAGAGGGTGGGCATGTGTGCACAGC
CCAGAGAGGTCAGGGTGACCTTCAGTGCCCTCATTGCCTGCGGTGCTTCAGTGATGAGCAAGGCGAGGCA
TTCCTCAGGCACCTGTCTGAGTGCTGCCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

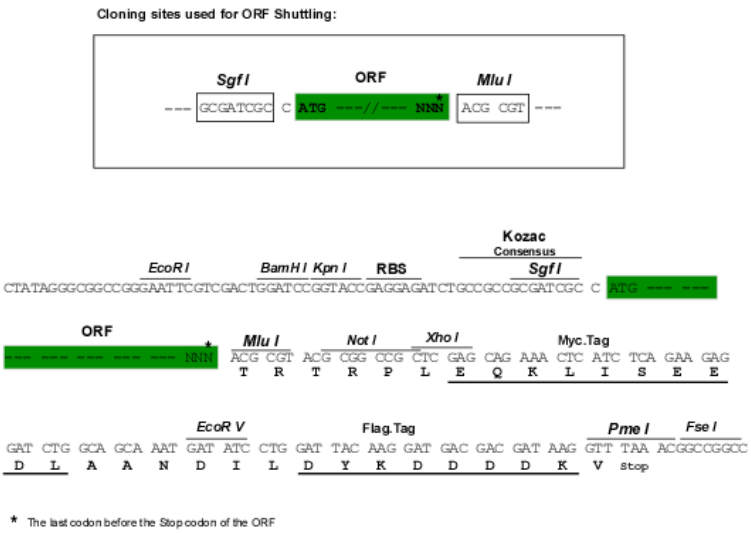
>MR223811 representing NM_139064
Red=Cloning site Green=Tags(s)

MSSGDPRSGRQDGAPRAAAALCGLYHEAGQQLQRLKDQLAARDALIASLRTRLAALEGHTAPSLVDALLD
QVERFREQLRRQEEGASETQLRQEVERLTERLEEKEREMQQLMSQPQHEQEKEVVLLRRSVAEKEKARAA
SDVLCRSLADETHQLRRTLAATAHMCQHLAKCLDERQCAQGDAGEKSPAELEQTSSDASGQSVIKKLQEE
NRLLKQKVTHVEDLNAKWQRYDASRDEYVKGLHAQLKRRQVPLEPELMKKEISRLNRQLEEKISDCAEAN
QELTAMRMSRDTALERVQMLEQQILAYKDDFKSERADRERAHSRIQELEEKIMSLMYQVSQRQDSREPGP
CRIHTGNKTAKYLEMDALEHVTPGGWRPESRSQQMEPSAEGGHVCTAQRGQGDLQCPHCLRCFSDEQGEA
FLRHLSECCQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

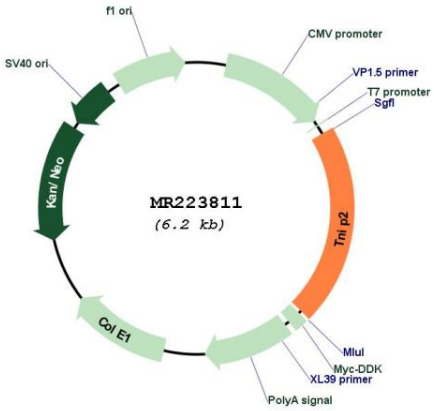
UniProt ID: Q99JG7

Cytogenetics: 5 B2

MW: 49.5 kDa

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 MR223811