

## Product datasheet for **RG239247**

### **TAB2 (NM\_001292035) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	TAB2 (NM_001292035) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TAB2
Synonyms:	CHTD2; MAP3K7IP2; TAB-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG239247 representing NM\_001292035.  
 Blue=ORF Red=Cloning site Green=Tag(s)

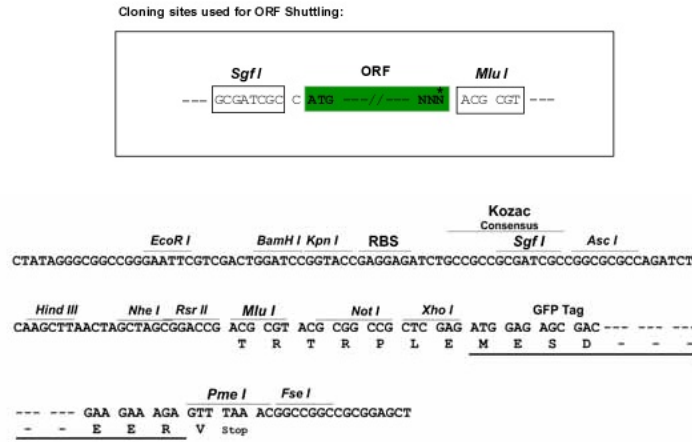
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AACCATCCAGCCTTAATTCGCTGTGAACAGTGTGAGATGCCAAGGCATTTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239247  
 Blue=ORF Red=Cloning site Green=Tag(s)

MQNNNLDACCAVLSESTRYL YGEGDLNFSDDSGI SGLRNHMTSLNLDLQSQNIYHHGREGSRMNGSR  
 TLTHSISDGLQGGQSNSELFQQEPQTAPAQVPQGFNVFGMSSSSGASNSAPHLGFHLGSKGTSSLSQ  
 TPRFNPIMVTLAPNIQTGRNTP TSLHIHGVPVPLNSPQGNISYIRPYITTPGGTTRQTQQHSGWVSQF  
 NPMNPQQVYQSPQGPWTTCPASNPLSHTSSQPNQQGHQTSHVYMPISSPTTSQPPTIHSSSGSSQSSA  
 HSQYNIQNI STGPRKNQIEIKLEPPQRNNSKLRSSGPRTSSTSSVNSQTLNRRNQPTVYIAASPPNTD  
 ELMRSRQPKVYISANAATGDEQVMRNQPTLFISTNSGASAAARNMSGQVSMGPAFIHHHPKSRAGNN  
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 RISETRKL SMGSDDAAYTQALLVHQKARMERLQRELEIQKKLKLKSEVNEMENNLTRRLKRSNSIS  
 QIPSL EEMQQLRSCNRQLQIDIDCLTKEIDL FQARGPHFNPSAIHNFYDNI GFVGPVPPKPKDQRSIIK  
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 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
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Restriction Sites: SgfI-MluI

Cloning Scheme:

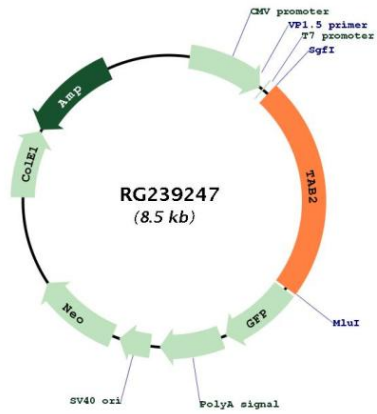


ACCN: NM\_001292035

ORF Size: 1983 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_001292035.3</a>
<b>RefSeq Size:</b>	4206 bp
<b>RefSeq ORF:</b>	1986 bp
<b>Locus ID:</b>	23118
<b>UniProt ID:</b>	<a href="#">Q9NYJ8</a>
<b>Cytogenetics:</b>	6q25.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	MAPK signaling pathway, NOD-like receptor signaling pathway, Toll-like receptor signaling pathway
<b>MW:</b>	73.3 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is an activator of MAP3K7/TAK1, which is required for for the IL-1 induced activation of nuclear factor kappaB and MAPK8/JNK. This protein forms a kinase complex with TRAF6, MAP3K7 and TAB1, and it thus serves as an adaptor that links MAP3K7 and TRAF6. This protein, along with TAB1 and MAP3K7, also participates in the signal transduction induced by TNFSF11/RANKI through the activation of the receptor activator of NF-kappaB (TNFRSF11A/RANK), which may regulate the development and function of osteoclasts. Studies of the related mouse protein indicate that it functions to protect against liver damage caused by chemical stressors. Mutations in this gene cause congenital heart defects, multiple types, 2 (CHTD2). Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]</p>

Product images:



Circular map for RG239247