

Product datasheet for **RG205238**

TBK1 (NM_013254) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBK1 (NM_013254) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TBK1
Synonyms:	FTDALS4; IIAE8; NAK; T2K
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG205238 representing NM_013254
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCAGAGCACTTCTAATCATCTGTGGCTTTTATCTGATATTTAGGCCAAGGAGCTACTGCAAATGTCT
 TTCGTGGAAGACATAAGAAAACCTGGTGATTTATTTGCTATCAAAGTATTTAATAACATAAGCTTCCCTTCG
 TCCAGTGGATGTTCAAATGAGAGAAATTTGAAGTGTGAAAAAACTCAATCACAAAAATATTGTCAAATTA
 TTTGCTATTGAAGAGGAGACAACAACAAGACATAAAGTACTTATTATGGAATTTTGTCCATGTGGGAGTT
 TATACACTGTTTTAGAAGAACCTTCTAATGCCTATGGACTACCAGAATCTGAATTCCTAATTGTTTTGCG
 AGATGTGGTGGGTGGAATGAATCATCTACGAGAGAATGGTATAGTGCACCGTGATATCAAGCCAGGAAAT
 ATCATGCGTGTTATAGGGGAAGATGGACAGTCTGTGTACAACTCACAGATTTTGGTGCAGCTAGAGAAT
 TAGAAGATGATGAGCAGTTTGTCTCTGTATGGCACAGAAGAATTTTGCACCCTGATATGTATGAGAG
 AGCAGTGCTAAGAAAAGATCATCAGAAGAAATATGGAGCAACAGTTGATCTTTGGAGCATTGGGGTAAACA
 TTTTACCATGCAGCTACTGGATCACTGCCATTTAGACCCTTTGAAGGGCCCTCGTAGGAATAAAGAAGTGA
 TGTATAAAATAATTACAGGAAAGCCTTCTGGTGAATATCTGGAGTACAGAAAGCAGAAAATGGACCAAT
 TGACTGGAGTGGAGACATGCCTGTTTCTTGCACTTTTCTCGGGGCTTTCAGGTTCTACTTACCCCTGTT
 CTTGCAACATCCTTGAAGCAGATCAGGAAAAGTGTGGGGTTTTGACCAGTTTTTGCAGAAAACCTAGTG
 ATATACTTACCAGAAATGGTAATTCATGTTTTTTCGCTACAACAAATGACAGCTCATAAGATTTATATACA
 TAGCTATAACTGCTACTATATTTTCACTGAACTGGTATATAAACAACCAAAATTTTCTTCAAATCAA
 GAACTTATCTACGAAGGGCGACGCTTAGTCTTAGAACCTGGAAGGCTGGCACAACATTTCCCTAAAACCTA
 CTGAGGAAAACCTATATTTGTAGTAAGCCGGGAACCTCTGGATACCATAGGATTAATATATGAAAAAT
 TTCCCTCCCTAAAGTACATCCACGTTATGATTTAGACGGGGATGCTAGCATGGCTAAGGCAATAACAGGG
 GTTGTGTGTTATGCCTGCAGAATTGCCAGTACCTTACTGCTTTATCAGGAATTAATGCGAAAGGGGATAC
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 ATTGGATTTCTGTATCAGAAACATTGAAAAACTGTGAAAGTATATGAAAAGTTGATGAAGATCAACCTG
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 CAATAGAAACCAGTCTCAGGATATCGACAGCAGATTATCTCCAGGTGGATCACTGGCAGACGCATGGGC
 ACATCAAGAAGGCACTCATCCGAAAGACAGAAATGTAGAAAACTACAAGTCTGTTAAATTCATGACA
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 AATTTGATAAGCAAAAACCTGTATTACCATGCCACAAAAGCTATGACGCACTTTACAGATGAATGTGTTAA
 AAGTATGAGGCATTTTGAATAAGTCAGAAGAATGGATAAGAAAAGATGCTTCATCTTAGGAAAACAGTTA
 TTATCGCTGACTAATCAGTGTGTTGATATTGAAGAAGAAGTATCAAAATATCAAGAATACTAATGAGT
 TACAAGAACTCTGCCTCAGAAAATGTTACAGCTTCCAGTGGAAATCAAACATACCATGACCCCAATTTA
 TCCAAGTTCTAACACATTAGTAGAAATGACTCTTGGTATGAAGAAATTAAGGAAGAGATGGAAGGGGTG
 GTTAAAGAACTTGCTGAAAATAACACATTTTAGAAAAGTTTGGCTCTTTAACCATGGATGGTGGCCTTC
 GCAACGTTGACTGTCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205238 representing NM_013254
Red=Cloning site Green=Tags(s)

MQSTSNHLWLLSDILGQGATANVFRGRHKKTGDLFAIKVFNNISFLRPVDVQMREFEVLKLNHNKIVKL
 FAIEEETTRHKVLI MEFCPCGSLYTVLEEPSNAYGLPESEFLI VL RDVVGGMNHLENGIVHRDIKPGN
 IMRVIGEDGQSVYKLTDFGAARELEDDEQFVSL YGTEEYLHPDMYERAVLRKDHQKYGATVDLWSIGVT
 FYHAATGSLPFRPFEGPRRNKEVMYKIIITGKPSGAI SGVQKAENGPIDWSGMPVSCSLSRGLQVLLTPV
 LANILEADQEKCWGFDQFFAETSDILHRMVIHVFSLQQMTAHKIYIHSYNTATIFHELVIYKQTKIISNQ
 ELIYEGRRLVLEPGRLAQHFPKTTTEENPIFVVSREPLDTIGLIYEKISLPKVHPRVLDLGDASMAKAITG
 VVCYACRIASTLLLYQELMRKGI RWLIELIKDDYNETVHKKTEVVITLDFCIRNIEKTVKVYEKLMKINL
 EAAELGEISDIHTKLLRLSSSQGTIETSLQDIDSRLSPGGSLADAWAHQEGTHPKDRNVEKLVLLNCMT
 EIYYQFKKQAERRLAYNEEQIHKFDKQKLYYHATKAMTHFTDECVKKYEAFLNKSEEWIRKMLHLRKQL
 LSLTNQCFDIEEEVSKYQEYTNELQETLPQKMF TASSGIKHTMTP IYSSNTLVEMTLGMKKLKEEMEGV
 VKELAENNHILERFGSLTMDGGLRNVDCL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_013254

ORF Size: 2187 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_013254.2](#), [NP_037386.1](#)

RefSeq Size: 2982 bp

RefSeq ORF: 2190 bp

Locus ID: 29110

UniProt ID: [Q9UHD2](#)

Cytogenetics: 12q14.2

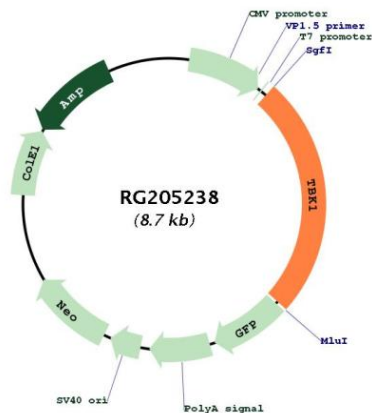
Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway

Gene Summary: The NF-kappa-B (NFKB) complex of proteins is inhibited by I-kappa-B (IKB) proteins, which inactivate NFKB by trapping it in the cytoplasm. Phosphorylation of serine residues on the IKB proteins by IKB kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation and nuclear translocation of the NFKB complex. The protein encoded by this gene is similar to IKB kinases and can mediate NFKB activation in response to certain growth factors. [provided by RefSeq, Oct 2010]

Product images:



Circular map for RG205238