

Product datasheet for **RG232331**

GTF2H3 (NM_001271866) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTF2H3 (NM_001271866) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GTF2H3
Synonyms:	BTF2; P34; TFB4; TFIIH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232331 representing NM_001271866 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTTTCAGACGAAGATGAATTGAATCTTCTGGTTATTGTAGTTGATGCCAACCAATTTGGTGGGGAA
AGCAAGCATTAAAGGAATCTCAGTTCACTTTATCCAAATGCATAGATGCCGTGATGGTGTGGGAAATTC
GCATTTATTCATGAATCGTTCACAACTTGTGTGATAGCAAGTCACATTCAAGAAAGCCGATTCTTA
TATCCTGGAAAGAATGGCAGACTTGGAGACTTCTCGGAGACCCTGGCAACCCTCCTGAATTTAATCCCT
CTGGGAGTAAAGATGAAAATACGAACTTTAACCTCAGCAAATGAAGTTATTGTTGAAGAGATTAAGA
TCTAATGACCAAAAGTGACATAAAGGGTCAACATACAGAACTTTGCTGGCAGGATCCCTGGCCAAAGCC
CTTTGCTACATTCATAGAATGAACAAGGAAGTTAAAGACAATCAGGAAATGAAATCAAGGATATTGGCTT
GTGACATCACGGGAGGACTGTACCTGAAGGTGCCTCAGATGCCTTCTTCTGCAGTATTGCTGTGGGT
GTTTCTTCCCGATCAAGATCAGAGATCTCAGTTAATCCTCCCACCCAGTTCATGTTGACTACAGGGCT
GCTTGCTTCTGTCATCGAAATCTCATTGAAATGGTTATGTCTGTTCTGTGTGTTTGTCAATATTCTGCA
ATTCAGCCCCATTTGTACTACGTGCGAGACAGCCTTTAAATTTCTCTGCCTCCAGTGTCAAAGCCAA
GAAAAGAACTGAAAGTGTCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232331 representing NM_001271866
Red=Cloning site Green=Tags(s)

MVSDDELNLLVIIVVDANPIWWGKQALKESQFTLSKCIDAVMVLGNSHLFMNRSNKLAVIASHIQESRFL
 YPGKNGRLGDFFGDPGNPPEFNPSGSKDGKYELLTSANEVIVEEIKDLMTKSDIKQHTETLLAGSLAKA
 LCYIHRMKEVKDNQEMKSRILACDITGGLYLKVPQMSLLQYLLWVFLPDQDQRSQLILPPPVHVDYRA
 ACFCHRNLIEIGYVCSVCLSIFCNFSPICTTCETAFKISLPPVLKAKKKLKVSA

TRTRPLE - GFP Tag - V

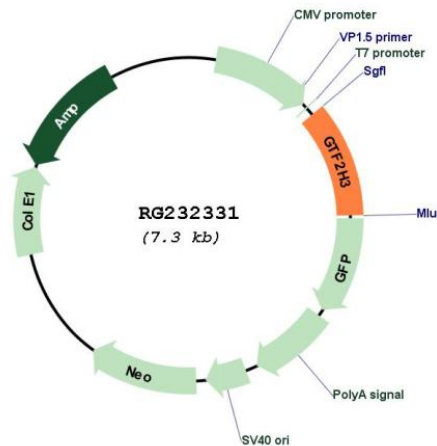
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001271866

ORF Size: 795 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:	NM_001271866.2
RefSeq Size:	3305 bp
RefSeq ORF:	798 bp
Locus ID:	2967
UniProt ID:	Q13889
Cytogenetics:	12q24.31
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Basal transcription factors, Nucleotide excision repair
Gene Summary:	This gene encodes a member of the TFB4 family. The encoded protein is a subunit of the core-TFIID basal transcription factor and localizes to the nucleus. The encoded protein is involved in RNA transcription by RNA polymerase II and nucleotide excision repair and associates with the Cdk-activating kinase complex. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 14. [provided by RefSeq, Dec 2012]