

Product datasheet for RG209543

GTF2H2 (NM_001515) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	GTF2H2 (NM_001515) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GTF2H2
Synonyms:	BTF2; BTF2 p44; BTF2P44; p44; T-BTF2P44; TFIIH
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG209543 representing NM_001515 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGATGAAGAACCTGAAAGAACTAAGCGATGGGAAGGAGGCTATGAAAGAACATGGGAGATTCTTAAAG AAGATGAATCTGGATCACTTAAAGCTACAATAGAAGACATTCTATTCAAGGCAAAGAGAAAAAGAGTATT TGAGCACCATGGACAAGTTCGACTTGGAATGATGCGCCCACCTTTATGTGGTAGTAGATGGATCAAGAACA ATGGAAGACCAAGATTTAAAGCCTAATAGACTGACGTGTACTTTAAAGTTGTTGGAATACTTTGTAGAGG AATATTTTGATCAAAATCCTATTAGTCAGATTGGAATAATTGTAACTAAGAGTAAAAGAGCTGAAAAATT GACTGAACTTTCAGGAAAACCCAAGAAAACATATAACGTCTTTGAAGGAAG

TTTGGATGCTTTTCAAGAAATTCCCCCTAGAAGAATATAATGGAGAAAGATTTTGTTATGGATGTCAGGGG GAATTGAAAGACCAACATGTTTATGTTTGTGCCTGTGTGCCAAAATGTTTTCTGTGTGGACTGTGATGTTT TTGTTCATGATTCTCTACACTGTTGCCCTGGCTGTATTCATAAGATTCCAGCTCCTTCAGGTGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

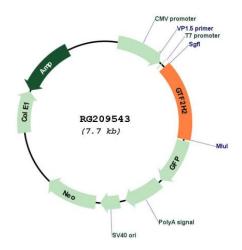


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Plasmid Map:



ACCN:

NM_001515

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	TF2H2 (NM_001515) Human Tagged ORF Clone – RG209543
ORF Size:	1185 bp
OTI Disclaimer:	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 <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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 Met	
	 Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 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>NM 001515.3, NP 001506.1</u>
RefSeq Size:	1951 bp
RefSeq ORF:	1188 bp
Locus ID:	2966
UniProt ID:	<u>Q13888</u>
Cytogenetics:	5q13.2
Domains:	VWA, Ssl1
Protein Families:	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Basal transcription factors, Nucleotide excision repair

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Gene Summary:This gene is part of a 500 kb inverted duplication on chromosome 5q13. This duplicated
region contains at least four genes and repetitive elements which make it prone to
rearrangements and deletions. The repetitiveness and complexity of the sequence have also
caused difficulty in determining the organization of this geneomic region. This gene is within
the telomeric copy of the duplication. Deletion of this gene sometimes accompanies deletion
of the neighboring SMN1 gene in spinal muscular atrophy (SMA) patients but it is unclear if
deletion of this gene contributes to the SMA phenotype. This gene encodes the 44 kDa
subunit of RNA polymerase II transcription initiation factor IIH which is involved in basal
transcription and nucleotide excision repair. Transcript variants for this gene have been
described, but their full length nature has not been determined. A second copy of this gene
within the centromeric copy of the duplication has been described in the literature. It is
reported to be different by either two or four base pairs; however, no sequence data is
currently available for the centromeric copy of the gene. [provided by RefSeq, Jul 2008]

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