

Product datasheet for **MG207388**

Gtf2h4 (BC012638) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2h4 (BC012638) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gtf2h4
Synonyms:	p52, TFIIH, p44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207388 representing BC012638
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATCACCCCTGCGAGGGGTGGACTGAACCGAGCACACCTACAATGCAGGAATCTCCAAGAGTTCT
 TAGGAGGCTGAGCCCTGGGGTCTGGACCGATTGTATGGGCACCCTGCCACTTGTCTGGCTGTCTTCAG
 GGAGCTCCCTCTTTGGCTAAGAAGTGGGTCATGAGGATGCTCTTTCTGGAGCAGCCGCTACCACAGGCT
 GCGGTGGCCCTGTGGGTGAAGAAGGAGTTCAGCAAGGCTCAGGAGGAAAGTACGGGGCTGCTGAGTGGCC
 TCCGTATCTGGCATACCCAGCTGCTCCCTGGTGGACTCCAAGGCCTCATCTTGAACCCCGTCTTCCGCCA
 GAACCTCCGATTGCCCTTCTGGGTGGGGCAAGGCCTGGTCTGATGACACAAGTCACTGGGACCAGAC
 AAGCACGCCCGGACGCTCCCTCACTGGACAAGTATGCTGAGGAGCGCTGGGAGTGGTCTTGCACCTTCA
 TGGTGGGCTCCCCAGTGCAGCTGTGAGCAAGACCTGGCTCAGCTCCTCAGCCAGGCCGGGCTTATGAA
 AAGCACTGAACCTGGAGAGCCACCTGCATCACTCCGCTGGCTCCAGTTCCTGCTACTGGACACGCCCT
 GCCCAGCTCTGGTACTTCATGCTGCAAGTATCTGCAGACAGCCAGAGCCGGGCAATGGATCTGGTGGAGA
 TTCTCTCCTTCTTTCCAGCTCAGCTTCTCCACTCTTGGCAAGGACTACTCTGTGGAGGGGATGAGTGA
 CTCTTTGTTGAACTTCTGCAACACCTGCGTGAGTTCCGGCTTGTTCAGAGGAAGAGGAAGTCCCGG
 CGTTACTACCCACACGCTGGCCATCAACCTCTCATCTGGTGTCTCTGGGGCTGGGGGCACTGTGCACC
 AGCCAGGCTTCATTGTCGTGAAACTAATTACCGACTGTACGCCTATACCGAGTCGGAAGTGCAGATCGC
 TCTCATTGCCCTTTCTCCGAAATGCTCTATCGATTCCCAACATGGTGGTGGCACAAGTACCCGGGAG
 AGTGTGCAGCAGGCCATTGCTAGCGGCATCACAGCTCAGCAGATAATCCATTTCTAAGGACAAGGGCAC
 ATCCAGTGATGCTCAAACAGAATCCTGTGCTGCCCCACCATAACAGACCAGATTCCGCTGTGGGAGCT
 GGAAAGGACAGACTCCGGTCACTGAAGCGCTCCTGTATAACCAGTTCCTGTCGCAAGTGGACTTTGAA
 CTGCTGCTGGCCACGCGCGGGAGCTGGCGTGTCTGTGTTGAGAACTCGGCCAAGCGGCTGATGGTGG
 TGACGCCGCGAGGCACAGCGACGTCAAGCGCTTCTGGAAGCGGCAAGCACAGCTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207388 representing BC012638
 Red=Cloning site Green=Tags(s)

MEITPARGGLNRAHLQCRNLQEFLLGGLSPGVLDRLYGHPTCLAVFRELPSLAKNWMMRMLFLEQLPQA
 AVALWVKKEFSKAQEESTGLLSGLRIWHTQLLPGLQGLILNPVFRQNLRIALLGGGKAWSDDTSQLGPD
 KHARDVPSLDKYAEERWEVVLHFMVGSPPSAVSDLAQLLSQAGLMKSTEPGEPPCITSAGFQFLLLDTP
 AQLWYFMLQYLQTAQSRGMDLVEILSFLFQLSFTLTKDYSEVGMDSLLNLFQHLREFGLVFQRKRKSR
 RYYPTRLAINLSSGVSGAGGTVHQPGFIVVETNYRLYAYTESELQIALIALFSEMLYRFPNMVVAQVTR
 SVQQAIASGITAQQIIHFLRTRAHPVMLKQNPVLPPTITDQIRLWELERDRLRFTEGLVLYNQFLSQVDFE
 LLLAHARELGVLVFENSAKRLMVVTPAGHSDVKRFWKQKHSS

TRTRPLE – GFP Tag – V

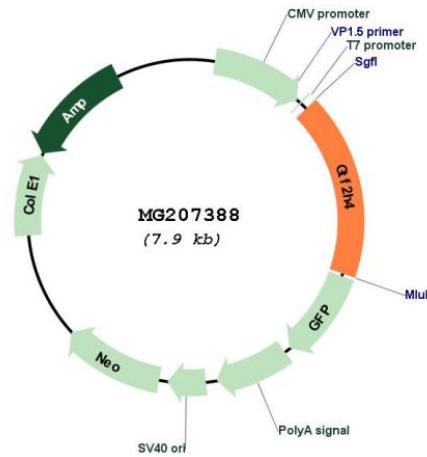
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC012638

ORF Size: 1391 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:	<u>BC012638</u> , <u>AAH12638</u>
RefSeq Size:	1575 bp
RefSeq ORF:	1391 bp
Locus ID:	14885
Cytogenetics:	17 B1
Gene Summary:	This gene encodes a subunit of the general transcription factor multiprotein complex that plays roles in basal transcription, DNA repair and cell cycle control. [provided by RefSeq, Dec 2014]