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Product datasheet for MC218806

Gtf2h1 (NM_008186) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2h1 (NM_008186) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gtf2h1
Synonyms:	62kDa; AW743425; AW822074; BTF2 p62; C77871; p62
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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Fully Sequenced ORF:

>MC218806 representing NM_008186
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGACTTCATCAGAAGAAGTGTTGCTGATTGTGAAGAAGGTTCGTCAGAAGAAGCAGGATGGAGCAC
TGTACCTCATGGCAGAGAGAATTGCTTGGGCACCTGAAGGCAAAGACAGATTTACAATCAGCCATATGTA
TGCAGATATTAAATGCCAGAAAATCAGTCCAGAGGGAAAAGCTAAAATACAACTTCAGCTGGTCCTGCAT
GCAGGGGACACAACAAACTTCCATTTTTCCAACGAAAGCACGGCAGTGAAAGAACGGGATGCAGTGAAGG
ACCTCCTTCAGCAGCTGCTGCCCAAGTTCAAGCGGAAAGCTAATAAAGAGCTGGAGGAGAAGAACAGAAT
GCTCCAAGAAGATCCTGTTTTATTCCAACTCTATAAAGACCTTGTTGTGAGCCAAGTGATCAGTGCTGAG
GAATTCTGGGCCAATCGTTTAAATGTGAATGCAACAGATAGTTCTACATCCAGTCACAAGCAGGATGTTG
GTATTTCTGCAGCATTTCTGGCTGATGTCCGGCCCCAAACGGATGGCTGTAATGGTCTGAGATATAATTT
AACTTCTGATATCATTGAATCTATATTTAGGACCTATCCAGCAGTAAAAATGAAATATGCAGAAACTGTA
CCACACAACATGACAGAAAAGGAGTTCTGGACACGCTTTTTCCAGTCCCATTATTTTCACAGGGACCGAC
TAAATACAGGATCGAAGGACCTCTTTGCAGAATGTGCCAAAATAGATGAGAAGGGATTAAAAACAATGGT
TTCATTAGGAGTGAAAAACCCAATGCTAGATTTGACATCGTTGGAAGATAAGCCATTAGACGAGGGCTAT
GGCATTTCCTCTGTGCCATCTACTTCCAATTCCAAATCCATAAAGGAGAATAGTAATGCTGCCATCATCA
AAAGGTTTAACCACCACAGTGCCATGGTCCTGGCTGCTGGTCTCAGGAAACAACAAGCACAAAATGGACA
GAATGGTGAGCCCAGCAGCGTGGATGGGAATTCTGGGGATACAGACTGCTTTCAGCCAGCAGTCAAAAGG
GCAAAGTTGCAGGAGTCCATTGAATATGAAGACTTGGGAAACAACAATTCTGTGAAAACGATTGCACTGA
ATCTCAAGAAGTCAGACAGGTATTACCATGGTCCTACTCCAATTCAGTCACTGCAGTATGCAACAAGTCA
GGACATTATTAACTCTTTTCAAAGTATTAGACAAGAAATGGAAGCTTACACACCCAAGTTAACTCAGGTT
CTCTCAAGCAGTGCTGCTAGTAGCACCATCACAGCCCTGTCACCTGGAGGAGCTCTTATGCAGGGAGGGA
CACAGCAAGCCGTAAACCAGATGGTGCCAAACGATATTCAGTCTGAATTGAAACACTTGTATGTGGCTGT
TGGGGAACTTCTGCGGCATTTTTGGTCTTGCTTTCCTGTTAATACACCATTCCTAGAAGAAAAGGTAGTG
AAAATGAAGAGTAATTTGGAACGGTTCCAAGTTACAAAGCTCTGCCCATTCCAAGAAAAGATTCGGAGGC
AGTATTTAAGCACAAATCTGGTAAGTCACATAGAAGAGATGCTGCAGACAGCCTACAACAAGCTCCACGC
GTGGCAATCCCGGCGCCTGATGAAGAAGACGTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_008186

Insert Size: 1644 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 custsupport@origene.com 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. More info

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_008186.4, NP_032212.3

RefSeq Size: 2749 bp

RefSeq ORF: 1644 bp

Locus ID: 14884

UniProt ID: Q9DBA9

Cytogenetics: 7 B3

Gene Summary: Component of the general transcription and DNA repair factor IIH (TFIIH) core complex, which is involved in general and transcription-coupled nucleotide excision repair (NER) of damaged DNA and, when complexed to CAK, in RNA transcription by RNA polymerase II. In NER, TFIIH acts by opening DNA around the lesion to allow the excision of the damaged oligonucleotide and its replacement by a new DNA fragment. In transcription, TFIIH has an essential role in transcription initiation. When the pre-initiation complex (PIC) has been established, TFIIH is required for promoter opening and promoter escape. Phosphorylation of the C-terminal tail (CTD) of the largest subunit of RNA polymerase II by the kinase module CAK controls the initiation of transcription.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 3. The resulting isoform (2) is shorter at the N-terminus compared to isoform 3.