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Product datasheet for MC228274

Gtf2h1 (NM_001291075) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2h1 (NM_001291075) 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:

>MC228274 representing NM_001291075
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCACCTTATAGCCATCATGGCGACTTCATCAGAAGAAGTGTTGCTGATTGTGAAGAAGGTTCGTCAGA
AGAAGCAGGATGGAGCACTGTACCTCATGGCAGAGAGAATTGCTTGGGCACCTGAAGGCAAAGACAGATT
TACAATCAGCCATATGTATGCAGATATTAAATGCCAGAAAATCAGTCCAGAGGGAAAAGCTAAAATACAA
CTTCAGCTGGTCCTGCATGCAGGGGACACAACAAACTTCCATTTTTCCAACGAAAGCACGGCAGTGAAAG
AACGGGATGCAGTGAAGGACCTCCTTCAGCAGCTGCTGCCCAAGTTCAAGCGGAAAGCTAATAAAGAGCT
GGAGGAGAAGAACAGAATGCTCCAAGAAGATCCTGTTTTATTCCAACTCTATAAAGACCTTGTTGTGAGC
CAAGTGATCAGTGCTGAGGAATTCTGGGCCAATCGTTTAAATGTGAATGCAACAGATAGTTCTACATCCA
GTCACAAGCAGGATGTTGGTATTTCTGCAGCATTTCTGGCTGATGTCCGGCCCCAAACGGATGGCTGTAA
TGGTCTGAGATATAATTTAACTTCTGATATCATTGAATCTATATTTAGGACCTATCCAGCAGTAAAAATG
AAATATGCAGAAACTGTACCACACAACATGACAGAAAAGGAGTTCTGGACACGCTTTTTCCAGTCCCATT
ATTTTCACAGGGACCGACTAAATACAGGATCGAAGGACCTCTTTGCAGAATGTGCCAAAATAGATGAGAA
GGGATTAAAAACAATGGTTTCATTAGGAGTGAAAAACCCAATGCTAGATTTGACATCGTTGGAAGATAAG
CCATTAGACGAGGGCTATGGCATTTCCTCTGTGCCATCTACTTCCAATTCCAAATCCATAAAGGAGAATA
GTAATGCTGCCATCATCAAAAGGTTTAACCACCACAGTGCCATGGTCCTGGCTGCTGGTCTCAGGAAACA
ACAAGCACAAAATGGACAGAATGGTGAGCCCAGCAGCGTGGATGGGAATTCTGGGGATACAGACTGCTTT
CAGCCAGCAGTCAAAAGGGCAAAGTTGCAGGAGTCCATTGAATATGAAGACTTGGGAAACAACAATTCTG
TGAAAACGATTGCACTGAATCTCAAGAAGTCAGACAGGTATTACCATGGTCCTACTCCAATTCAGTCACT
GCAGTATGCAACAAGTCAGGACATTATTAACTCTTTTCAAAGTATTAGACAAGAAATGGAAGCTTACACA
CCCAAGTTAACTCAGGTTCTCTCAAGCAGTGCTGCTAGTAGCACCATCACAGCCCTGTCACCTGGAGGAG
CTCTTATGCAGGGAGGGACACAGCAAGCCGTAAACCAGATGGTGCCAAACGATATTCAGTCTGAATTGAA
ACACTTGTATGTGGCTGTTGGGGAACTTCTGCGGCATTTTTGGTCTTGCTTTCCTGTTAATACACCATTC
CTAGAAGAAAAGGTAGTGAAAATGAAGAGTAATTTGGAACGGTTCCAAGTTACAAAGCTCTGCCCATTCC
AAGAAAAGATTCGGAGGCAGTATTTAAGCACAAATCTGGTAAGTCACATAGAAGAGATGCTGCAGACAGC
CTACAACAAGCTCCACGCGTGGCAATCCCGGCGCCTGATGAAGAAGACGTGA

AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001291075

Insert Size: 1662 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001291075.1, NP_001278004.1
RefSeq Size:	2716 bp
RefSeq ORF:	1662 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 (1) differs in the 5' UTR and coding sequence compared to variant 3. The resulting isoform (1) has a shorter and distinct N-terminus compared to isoform 3. Variants 1 and 4 both encode the same isoform (1).