

Product datasheet for **RR205409**

Gtf2h3 (NM_001024236) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2h3 (NM_001024236) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gtf2h3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205409 representing NM_001024236 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCGCGGACGAAGATGAGTTGAATCTTCTGGTTATCATAGTTGACACCAACCCGATTTGGTGGGGAA
AGCAAGCGTTAAAGGAATCTCAGTTCAGTCTGTCCAAGTGCATGGATGCTGTGATGGTCTGGCAAACGC
CCACCTGTTTCATGAACCGCTCCAACCAGTAGCGGTTCATCGCCAGCCACATTCAGGAAAGTCGATTCTTA
TACCCGGGAAGAACGGCCGACTCGGAGACTTCTCGGAGATCCTGGCAACGCCCTTCTGACTGTAATC
CCTCTGGGAGTAAGGACGGGAAATATGAGCTGTTGACAGCGGCAACGAGGTGATCGCCGAGGAGATCAA
GGATCTGATGACCAAGAGTGACATCAAGGGCCAGCACACGGAGACCCACTGGCAGGATCCCTCGCCAAG
GCCCTCTGCTACATTCACAGAGCGAGCAAGGCAGTGAAAGATAATCAGGAGATGAAATCAAGGATTTTGG
TCATCAAGGCTGCAGAGGACAGTGCAGTACATGAACCTCATGAACGTCATCTTTGCTGCTCAGAA
GCAGAATATCCTCATCGATGCCTGCGTCTGGACTCGGATTCAGGGCTCCTCCAGCAGGCTTGTGACATC
ACTGGGGACTGTACCTGAAGGTGCCTCAGATGCCTTCTCTCCTGCAGTACTTACTGTGGTTTTTCTTC
CGGATCAAGACCAGCGATCTCAGCTAATCCTCCCACCTCCGATCCACGTGGACTATAGGGCTGCCTGCTT
CTGCCATCGAAGTCTCATTGAGATTGGCTATGTCTGCTCTGTGTCTGTCTATTTTCTGCAACTCAGC
CCCATCTGCACCAGTGCAGACAGCTTTAAGATCTCCCTCCCTCCTGTGCTGAAGGCCAAGAAAAGA
AACAGAAGGTGTCCCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	927 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_001024236.1 , NP_001019407.1
RefSeq Size:	1878 bp
RefSeq ORF:	930 bp
Locus ID:	288651
UniProt ID:	Q561R7
Cytogenetics:	12q15
MW:	34.3 kDa
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]