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Product datasheet for RN205409

Gtf2h3 (NM_001024236) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2h3 (NM_001024236) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gtf2h3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN205409 representing NM_001024236 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCGCGGACGAAGATGAGTTGAATCTTCTGGTTATCATAGTTGACACCAACCCGATTTGGTGGGGAA AGCAAGCGTTAAAGGAATCTCAGTTCACTCTGTCCAAGTGCATGGATGCTGTGATGGTGCTGGCAAACGC CCACCTGTTCATGAACCGCTCCAACCAGCTAGCGGTCATCGCCAGCCACATTCAGGAAAGTCGATTCTTA TACCCGGGGAAGAACGGCCGACTCGGAGACTTCTTCGGAGATCCTGGCAACGCCCTTCCTGACTGTAATC CCTCTGGGAGTAAGGACGGGAAATATGAGCTGTTGACAGCGGCAAACGAGGTGATCGCCGAGGAGATCAA GGATCTGATGACCAAGAGTGACATCAAGGGCCAGCACACGGAGACCCTACTGGCAGGATCCCTCGCCAAG GCCCTCTGCTACATTCACAGAGCGAGCAAGGCAGTGAAAGATAATCAGGAGATGAAATCAAGGATTTTGG TCATCAAGGCTGCAGAGGACAGTGCACTGCAGTACATGAACTTCATGAACGTCATCTTTGCTGCTCAGAA GCAGAATATCCTCATCGATGCCTGCGTCCTGGACTCGGATTCAGGGCTCCTCCAGCAGGCTTGTGACATC ACTGGGGGACTGTACCTGAAGGTGCCTCAGATGCCTTCTCTCCTGCAGTACTTACTGTGGGTTTTTCTTC CGGATCAAGACCAGCGATCTCAGCTAATCCTCCCACCTCCGATCCACGTGGACTATAGGGCTGCCTGCTT CTGCCATCGAAGTCTCATTGAGATTGGCTATGTCTGCTCTGTGTGTCTGTCTATTTTCTGCAACTTCAGC CCCATCTGCACCACGTGCGAGACAGCTTTTAAGATCTCCCTCCCTCCTGTGCTGAAGGCCAAGAAAAAGA AACAGAAGGTGTCCCTGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Restriction Sites:	SgfI-MluI
ACCN:	NM_001024236
Insert Size:	930 bp

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