

## Product datasheet for **MR220748**

### **Gtf3c4 (NM\_001166033) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gtf3c4 (NM_001166033) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gtf3c4
Synonyms:	5330400C03; AI426938; AU014771; AU017413; KAT12; TFIIC90
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR220748 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGCGAGGCGGACCAGGCCCTGGTGGGGCCCAAGGCCGACGAGCCCTCGCCGCCCGCAGAGGAGAAGG  
 ACGAAGGGGGCGGAAGGAGGCGCTGCCGACGCGGCCCGGGCCAGCGCCTCGTTTCGCCTCATGGT  
 GACTCGGCGGGAGCCTGCCGTGAAGCTGCAATACGCGGTGAGCGGTTAGAGCCGCTCTCCTGGTCTGAG  
 GACCACCGCGTGTCTGTGCCACGGCTCGCAGCGTCCGCGTGGAGCTTATCTGCGATGTGCACAACC  
 CAGGCCAGGATCTGGTATCCACCGCACCTCGGTACCCGCACCTCTCAACAGCTGCCTCCTCAAGGTTGG  
 CTCAAAAAAGAGTTGCTGAGTGAAGAAAAGTTTCGTTCTCTAAAGACCCACCATCAGCCAGACT  
 TTCATGCTAGACAGGATGTTCAACCCGAGGGGAAGGCCCTGCCCAATGCGGGGTTTCAATACTACTA  
 GCTGGTCTCCAATGGGTTGTGATGCAAAATGGCAGGTGCCTCTTGGCAGCACTGACCATGGACAATCGCT  
 GACTGTGCAGGTGAACCTCAACAGACTCCAGTGGGTTGAGTGGTGGTCTGACGAGATTTATGGAGAC  
 CGTCTTTATGAGACTAGTTATAGACTGTCTAAAAATGAGGCTCCTGAGGGAAATCTCGGGGATTTGCTG  
 AGTTTCAGAGGAGACACAGTATGCAGACCCAGTCAGAATGGAATGGTCCGATATCTGTACCACTCAGCA  
 GGTCAAGCACAACAACGAGTGCCGGGATGTGAGCAGCGTGTGCTGGCTGTCTCTTTGAGAACGGGAAT  
 ATAGCTGTGTGGCAGTCCAGCTGCCATTCGTGGGGAAGGAGTCCATCTCTTCAAGCAACTATTGAGT  
 CAGGAATCAGCTCCCCAGTGTGTTTGGTGGGAATATGAGCACAATAATAGGAAAATGAGTGGCCT  
 TATTGTGGCAGTGTGTTTGGACCTGTAATAATCTCCCTGTCAATCTCAAAGCAGTGAAGGCTACTTT  
 ACTTTAAGGCAGCCTGTGTCTTGTGAAAGAAATGGACAAGTTACCTGTGCACAGCATCAATGTGTGTC  
 CACTTTACCACCCCTACCAGAAGTGTAGCTGTAGCTTGTGGTAGCTGCAAGAGGCTCCTATGTGTTTG  
 GTGTCTTCTGATCTCCAAGGCAGGTCTGAATGTTTCACAATCCCACGTACAGGCCTCCACTACTG  
 CCCATCGTCTCCATTACTGCAGACAAGCAGAATGGAACAGTGTACACCTGCTCTAGTGATGGGAAGTGA  
 GGCAGTTGATTCCATTTTACAGATGTTGCATTAAGTGAACACCAGCTGATTAAGCTCTCAGATGT  
 CTTTGGCTCAGTGAGGACTCACGGCATTGCAGTGAAGTCCCTGTGGTGTCTATCTGGCCATCATCACCCT  
 GAGGGCATGATGAATGGCTCCATCCTGTGAATAAGAACCAGGTCAGTTTGTACTCTGAAGACCT  
 TTGAAGAGGCAGCTGCTCAGCTCTGGAGTCTCAGTTCAGAATCTTTAAGCAGGTAGACTTGATCGA  
 CCTGGTCCGCTGGAAAAATTTAAAAGATAAACATATTCCTCAGTTTTTACATGAAGCATTGAAAAAAG  
 ATTGAAAGCAGCGGGTTACCTATTTTTGGCGTTTTAAGCTTTTCTTCTAAGGATTTTGTATCAGTCAA  
 TGCAAAAATCCCTTCCGAGGCCTTATGAAACCACCCATGAGGACTCAAAAATCTTACTGGTTGACTC  
 ACCTGGGATGGGCGACGGTGAAGGATGAGCAGCAAGAAGAAGTACTTCCAAGCAGGGGACTAAGGCTGGC  
 CTGCAGGAGAAGAGCAAAGAAGGTGACACAGAGGAGACCCTGAGGACTCACTACTGCAGGGGGAGACA  
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 CCTGACCAGGGAGCACATGAAGCGGGTCTGGGAGAAGTGTACCTGCACACCTGGATCACAGAGAACC  
 AGCATACCACCAGAGGGCTCTGTAACCTCCTGATGTCTGATGAGGATTATGATGACAGGACAGCACAGG  
 TCTTGATTGGACATATCTCCAAGAAGATGAACAAACAGACCTTCCCTGAGCGCTGCAGTCTGTGTAAGGA  
 GATCTTACCATTACAGATCGCAAGCAAGCTGTTTGTCCAATGGGCACATCTGGCTCCGGTCTTTCTA  
 ACCTACCAGTCCGAGAGCTTGATATACAGACGGTGTGTTGCTCCATGACAGCATCGCCAGGCATCCTG  
 TTCAGAAGATCCTGACTGGATTAAGAGGTTGCTGCAGAGTCTTGTCTTTCTGTGATTCTCTGTCTT  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

## Protein Sequence:

&gt;MR220748 protein sequence

Red=Cloning site Green=Tags(s)

MSEADQALVGPKADEPSPPAEEKDEGGGKEAAADAAPGPSASFRLMVTRREPAVKLQYAVSGLEPLSWSE  
DHRVSVSTARSVAVLELICDVHNPGQDLVIHRTSVPAPLNSCLLKVGSKTEVAECKEKFASSKDPTISQT  
FMLDRMFNPEGKALPPMRGFKYTSWSPMGCDANGRCLLAALTMDNRLTVQVNLNRLQWVQLVDL TEIYGD  
RLYETSYRLSKNEAPEGNLGDFAEFQRRHSMQTPVRMEWSSICTTQQVKHNECRDVSSVLLAVLFENG  
IAVWQFQLPFVKGESISSCNTIESGISSPSVLFWWEYEHNNRKMSG LIVGSAFGPVKILPVNLKAVKGYF  
TLRQPVVLWKEMDKLPVHSIKCVPLYHPYQKCSCLVVAARGSYVFWCLLLISKAGLNVHNSHVTGLHSL  
PIVSITADKQNGTVYTCSSDGKVRQLIPIFTDVALKFEHQLIKLSDVFGSVRTHGIAVSPCGAYLAIITT  
EGMMNGLHPVNKNYQVQFVTLKTFEAAAQLLESSVQNLFKQVDLIDLVRWKILKDKHIPQFLHEALEKK  
IESSGVTYFWRFKLFLLRILYQSMQKSPSEALWKPTHEDSKILLVDSPGMGDGEDEQQEEGTSKQGTKAG  
LQEKSKEGDTEETPEDSLTAGGDTGGREPVEEKLEIQGKIEAVEMHLTREHMKRVLGEVYLHTWITENT  
SIPTRGLCNFLMSDEDYDDRTAQVLIGHISKKMNKQTFPERCSLCKEILPFTDRKQAVCSNGHIWLR CFL  
TYQSCQSLIYRRCLLHDSIARHPVPEDPDWIKRLLQSPCPFCDSPVF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

## Restriction Sites:

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001166033

**ORF Size:** 2454 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:**

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\\_001166033.1](#), [NP\\_001159505.1](#)

**RefSeq Size:** 7127 bp

**RefSeq ORF:** 2031 bp

**Locus ID:** 269252

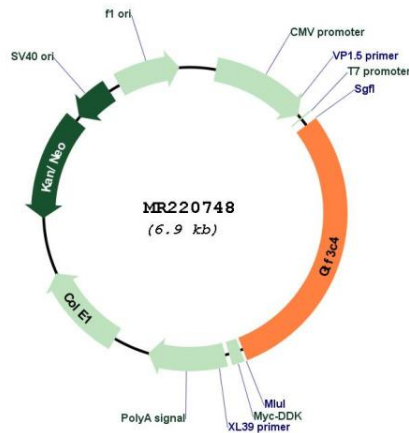
**UniProt ID:** [Q8BMQ2](#)

**Cytogenetics:** 2 A3

**MW:** 91.6 kDa

**Gene Summary:** Essential for RNA polymerase III to make a number of small nuclear and cytoplasmic RNAs, including 5S RNA, tRNA, and adenovirus-associated (VA) RNA of both cellular and viral origin. Has histone acetyltransferase activity (HAT) with unique specificity for free and nucleosomal H3. May cooperate with GTF3C5 in facilitating the recruitment of TFIIB and RNA polymerase through direct interactions with BRF1, POLR3C and POLR3F. May be localized close to the A box (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR220748