

Product datasheet for **MR210797**

Gtf3c4 (NM_172977) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf3c4 (NM_172977) 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:

>MR210797 representing NM_172977
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCGAGGCGGACCAGGCCCTGGTGGGGCCCAAGGCCGACGAGCCCTCGCCGCCCGCAGAGGAGAAGG
 ACGAAGGGGGCGGAAGGAGGCGCTGCCGACGCGGCCCCCGGGCCAGCGCCTCGTTTCGCCTCATGGT
 GACTCGGCGGGAGCCTGCCGTGAAGCTGCAATACGCGGTGAGCGGTTAGAGCCGCTCTCCTGGTCTGAG
 GACCACCGCGTGTCTGTGTCCACGGCTCGCAGCGTCGCGGTGCTGGAGCTTATCTGCGATGTGCACAACC
 CAGGCCAGGATCTGGTATCCACCGCACCTCGGTACCCGCACCTCTCAACAGCTGCCTCCTCAAGTTGG
 CTCAAAAAAGAGTTGCTGAGTGAAGAAAAGTTTCGTTCTCTAAAGACCCACCATCAGCCAGACT
 TTCATGCTAGACAGGATGTTCAACCCGAGGGGAAGGCCCTGCCCAATGCGGGGTTTCAATACTACTA
 GCTGGTCTCCAATGGGTGTGATGCAAAATGGCAGGTGCCTCTTGGCAGCACTGACCATGGACAATCGCT
 GACTGTGACAGTGAACCTCAACAGACTCCAGTGGGTTGAGTGGTGGTCTGACGGAGATTTATGGAGAC
 CGTCTTTATGAGACTAGTTATAGACTGTCTAAAAATGAGGCTCCTGAGGGAAATCTCGGGGATTTGCTG
 AGTTTCAGAGGAGACACAGTATGCAGACCCAGTCAGAATGGAATGGTCCAGTATCTGTACCACTCAGCA
 GGTCAAGCACAACAACGAGTGCCGGGATGTGAGCAGCGTGTGCTGGTGTCTCTTTGAGAACGGGAAT
 ATAGCTGTGTGGCAGTCCAGCTGCCATTCGTGGGGAAGGAGTCCATCTCTTCAAGCAACTATTGAGT
 CAGGAATCAGCTCCCCAGTGTGTTTGGTGGGAATATGAGCACAATAATAGGAAAATGAGTGGCCT
 TATTGTGGCAGTGTGTTTGGACCTGTAATAATCTCCCTGTCAATCTCAAAGCAGTGAAGGCTACTTT
 ACTTTAAGGCAGCCTGTGTCTGTGGAAGAAATGGACAAGTACCTGTGCACAGCATCAATGTGTTGC
 CACTTTACCACCCCTACCAGAAGTGTAGCTTAGCTTAGTGGTAGCTGCAAGAGGCTCCTATGTGTTTG
 GTGTCTTCTGATCTCCAAGGCAGGCTGAATGTTTCAAAATCCACAGTACAGGCCTCCACTACTG
 CCCATCGTCTCCATTACTGCAGACAAGCAGAATGGAACAGTGTACACCTGCTCTAGTGTGGAAAGTGA
 GGCAGTTGATTCCATTTTACAGATGTTGCATTAAGTTTGAACACCAGCTGATTAAGCTCTCAGATGT
 CTTTGGCTCAGTGAAGTGCAGTGCAGTCCCTGTGGTGTCTATCTGGCCATCATCACCCT
 GAGGGCATGATGAATGGCTCCATCCTGTGAATAAGAACCAGGTCAGTTTGTACTCTGAAGACCT
 TTGAAGAGGCAGTGTGCTCAGCTCTGGAGTCTCAGTTCAGAATCTTTAAGCAGGTAGACTTGATCGA
 CCTGGTCCGCTGGAAAAATTTAAAGATAAACATATTCCTCAGTTTTTACATGAAGCATTGAAAAAAG
 ATTGAAAGCAGCGGGTTACCTATTTTTGGCGTTTTAAGCTTTTCTTCTAAGGATTTTGTATCAGTCAA
 TGCAAAAATCCCTTCCGAGGCCTATGGAACCACCCATGAGGACTCAAAAATCTTACTGTTGACTC
 ACCTGGGATGGGCGACGGTGAAGGATGAGCAGCAAGAAGAAGTACTTCCAAGCAGGGGACTAAGGCTGGC
 CTGCAGGAGAAGAGCAAAGAAGGTGACACAGAGGAGACCCTGAGGACTCACTACTGCAGGGGGAGACA
 CCGGAGGCCGTGAACCTGTAGAGGAAAAGCTCCTTGAGATCCAAGGGAAGATTGAGGCTGTGGAGATGCA
 CCTGACCAGGGAGCACATGAAGCGGGTCTGGGAGAAGTGTACCTGCACACCTGGATCACAGAGAACC
 AGCATACCACAGAGGGCTCTGTAACCTCCTGATGTCTGATGAGGATTATGATGACAGGACAGCACAGG
 TCTTGATTGGACATATCTCCAAGAAGATGAACAAACAGACCTTCCCTGAGCGCTGCAGTCTGTGTAAGGA
 GATCTTACCATTACAGATCGCAAGCAAGCTGTTTGTTCATGGGCACATCTGGCTCCGGTCTTTCTA
 ACCTACCAGTCCGAGAGCTTGATATACAGACGGTGTGTTGCTCCATGACAGCATCGCCAGGCATCCTG
 TTCAGAAGATCCTGACTGGATTAAGAGGTTGCTGCAGAGTCTTGTCTTTCTGTGATTCTCCTGTCTT
 C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210797 representing NM_172977
Red=Cloning site Green=Tags(s)

MSEADQALVGPKADEPSPPAEEKDEGGGKEAAADAAPGPSASFRLMVTRREPAVKLQYAVSGLEPLSWSE
DHRVSVSTARSVAVLELICDVHNPQDLVIHRTSVPAPLNSCLLKVGSKTEVAECKEFASSKDPTISQT
FMLDRMFNPEGKALPPMRGFKYTSWSPMGCDANGRCLLAALTMDNRLTVQVNLNRLQWVQLVDL TEIYGD
RLYETSYRLSKNEAPEGNLGDFAEFQRRHSMQTPVRMEWSSICTTQQVKHNECRDVSSVLLAVLFENG
IAVWQFQLPFVKGESISSCNTIESGISSPSVLFWWEYEHNNRKMSGIIVGSAFGPVKILPVNLKAVKGYF
TLRQPVVLWKEMDKLPVHSIKCVPLYHPYQKCSCLVVAARGSYVFWCLLLISKAGLNVHNSHVTGLHSL
PIVSITADKQNGTVYTCSSDGKVRQLIPIFTDVALKFEHQLIKLSDVFGSVRTHGIAVSPCGAYLAIITT
EGMMNGLHPVNKNYQVQFVTLKTFEEAAAQLLESSVQNLFKQVDLIDLVRWKILKDKHIPQFLHEALEKK
IESSGVTYFWRFKLFLLRILYQSMQKSPSEALWKPTHEDSKILLVDSPGMGDGEDEQQEEGTSKQGTKAG
LQEKSKEGDTEETPEDSLTAGGDTGGREPVEEKLEIQGKIEAVEMHLTREHMKRVLGEVYLHTWITENT
SIPTRGLCNFLMSDEDYDDRTAQVLIGHISKKMNKQTFPERCSLCKEILPFTDRKQAVCSNGHIWLR CFL
TYQSCQSLIYRRCLLHDSIARHPVPEDPDWIKRLLQSPCPFCDSPVF

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_172977

ORF Size: 2451 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_172977.3](#), [NP_766565.2](#)

RefSeq Size: 7021 bp

RefSeq ORF: 2454 bp

Locus ID: 269252

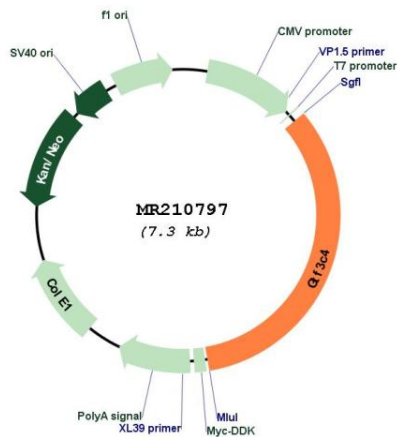
UniProt ID: [Q8BMQ2](#)

Cytogenetics: 2 A3

MW: 92.1 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 MR210797