

Product datasheet for **RC221338**

GTF3C2 (NM_001035521) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTF3C2 (NM_001035521) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GTF3C2
Synonyms:	TFIIIC-BETA; TFIIC110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC221338 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATACCTGCGGGGTGCGCTATGTTGCCTGGGGAGGCCGGCCCGTGGGGAACATGACTGTGGTAG
 ACTCTCCTGGACAAGAGGTGCTAAATCAGCTTGATGTCAAGACCTTTCAGAAATGACCAGTGCAGAGGC
 TTCCTAGAGATGTCATTACCTACCCCTTTGCCTGGATTTGAGGATTCTCCTGATCAGAGGAGGCTCCCT
 CCAGAGCAGGAAAGCCTCTCCAGACTGGAACAGCCAGATCTTTCTCAGAGATGTCAAAGGTCTCAAAGC
 CTAGGGCCTCAAAGCCTGGCCGGAAGAGAGGTGGTAGGACACGAAAAGGCCCAAAGGCCCAAACAGCC
 TAATCCTCCATCAGCCCCACTGGTTCCTGGTCTCTTAGATCAATCCAACCTCTGTCCACCCCATGCT
 AAGAAACGAGGTGAAAGTCCAAGGCAGAGCTGCTGCTGCTGAAGTTGTCAAAGACCTAGATCGGCCAG
 AATCTCAATCTCAAAGAGGCCCTTGGAGACTTTGAGACCCCTTCTGGGGAACGACCCCGCGAAGGGC
 TGCCCAAGTGGCACTTCTGTATCTCAGGAAGTGGCTGAAGAGCTCTCAACAGCCCTGCCTGCCCTGTG
 TCCTGTCTGAGGGCCCAAGGTGAGCAGCCCAACCAACGAAGAAGATCCGGCAGCCAGCAGCCTGTC
 CAGGTGGAGAAGAGGTGGATGGTCTCCACGGATGAAGACTTTTTCTCCAGGTTGAGGCTGAAGATGT
 GGAAGAAAGTGAAGGCCCAAGTGAAGCTCATCTGAACCTGAGCCTGTAGTGCCCGAAGCACCCACGA
 GGATCTACTTCAGGAAACAGAAACCACTGCCGAGGAATGGCTCCCAATGGCTTACCAGATCATATCA
 TGGCTCCTGTTTGAAGTGCCTCCATCTCACCAGGACTTCCGAGAGCAGAAACATTCATACTGGGAGTT
 TGCTGAGTGGATTCCTTAGCCTGGAAGTGGCACTTGTATCTGAGCTTGAGGCCCTCCCTACCTGCC
 CAGGAGGAGAAGTCTCCATTGTTTTCTGTACAACGTGAAGGGCTACCTGAAGATGGCACCTCTACCGAA
 TAAACAGATTTAGCTCGATCAGCAGACATCCAGAGCGCTGGGATGTGCCTTCTCACGGGGGACCGCT
 CTGGGCTCTGGACTGGTGCCAGTGCCAGAGGGGCAGGAGCCTCGCAATATGTGGCTCTTTCTCCAGC
 CCTGACATGAATGAGACACCCACTGAGCCAGCTTCATTGCGGTCTGGGCTGCTCCAGCTCTGGGCC
 TTGGGACCTTGCAGCAAGAAAGCTGTCTGGCAACAGGGCCACTTTGTCTATGGGATTGCTGTGACAA
 CGGCTGCATCTGGGACCTCAAGTCTGCCCCAGTGGAGCATGGGAACTTCCAGGCACCCCTCGGAAGGT
 CCTCTCTGCCCGGTTGGGTCTCTGGCTCTGGCCTGCTCAGACGGAAAGTACTGCTATTAGCTAC
 CCCATCCGGAGGCCCTGCTGGCTCAGCAACCCCAAGTGCAGTGAAGCCTGCCATATATAAGGTACAATG
 TGTGGCAACTCTGCAGGTGGGTCTATGCAAGCTACAGACCCCTCTGAGTGTGGTCACTGCTTAGCCTG
 GCCTGGATGCCTACCAGGCCCAACACCTAGCTGCTGGATATTATAATGGCATGGTGGTTTTCTGGA
 ACCTTCCCACTAACTCACCCCTGCAGCGGATACGGCTCTCTGATGGCTCCTTAAAGCTCTACCCCTTCCA
 GTGTTTCTAGCCATGACCAGGCTGTGCGTACCTTCAATGGTGCAAAGCTAACAGCCATTTCTTGTGTC
 TCTGCGGGGAGTGACCGGAAAATCAAATTTCTGGGACCTTTCGACGCTCCTTACGAACCCATAAACTCTATCA
 AGCGCTTCTTGAGTACAGAACTGGCCTGGCTGCTCCCTACAATGGTGTCACTGTGGCTCAGGACAAGT
 CTATGCCTCTTATGGACTCTGTGGGATTCAATATATTGACGCTGGTTACCTTGGTTTCAAGGCCTACTTC
 ACTGCTCCTCGAAAAGGCACCGTTTGGAGTCTTTCAGGATCCGACTGGCTGGGACAATAGCTGCAGGAG
 ATATATCCGGGGAGCTCATTGCTGCTATATTACCAGATATGGCACTGAATCCAATAAATGTCAAGCGACC
 TGTAGAGCGAAGATTTCTATATAAAGCAGATCTGATACCGTATCAGGACAGTCTGAAGGTCCAGAC
 CATTCTTCTGCTTCTGCTGCTGCGGTTCCCAACCCCTCCTAAGGCTCGAACTTCACTGAAACTGTCAACCATC
 ACTACTTGTCTTTCAAGACACAGATTTGGGTTCAATCCATGATCTGCTCCGTAGAGAACCAATGCTGCG
 CATGCAGGAGGGAGAGGGCATTCTCAACTCTGCCTGGACAGGCTGCAGCTGGAGGCTATTATAAGGTA
 CGTTTCAGCCCAAACCTGGACTCCTATGGATGGCTGGTATCTGGGGGAGTCAAGGCTGGTTTCAAGTCC
 ATTTTGTCCGTGGACTCGCTCCCACTGGGCCACCGTATGCAGCTTGAAGCCGAGCCCACTTCAATGC
 TATGTTCAACCATCCTCCCACTAGACGGCTGGCTTCTCTCAACCAAGCCATCGCTTCTGCCCACT
 CCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC221338 protein sequence
 Red=Cloning site Green=Tags(s)

MDTCGVGYVALGEAGPVGNMTVVDSPGQEVLNQLDVKTSSEMTSAEASVEMSLPTPLPGFEDSPDQRRPL
 PEQESLSRLEQPDLSSEMskvskPRASKPGRKRGRTRKGPKRPPQPNPPSAPLVPGLLDQSNPLSTPMP
 KKRGRKSKAELLLLKSKDLDRPESQSPKRPPEDFETPSGERPRRRAAQVALLYLQELAEELSTALPAPV
 SCPEGPKVSSPTKPKKIRQPAACPGGEEVDGAPRDEDFLQVEAEDVEESEGPSESSSEPEPVPRSTPR
 GSTSGKQKPHCRGMAPNGLPDHIMAPVVKCLHLTKDFREQKHSYWEFAEWIPLAWKWHLLSELEAAPYLP
 QEEKSPLFSVQREGLPEDGTLYRINRFSSITAHPERWDVSFFTTGGPLWALDWCPVPEGAGASQYVALFSS
 PDMNETHPLSQLHSGPGLLQLWGLGTLQQESCNGRAHFVYGIACDNGCIWDLKFCPSGAWELPGTPRKA
 PLLPRLGLLALACSDGKVLFLSLPHPEALLAQPPDAVKPAIYKVCVATLQVGSMAQATDPSECGQCLSL
 AWMPTRPHQHLAAGYYNGMVVFNWLNPTNSPLQRIRLSDGSLKLYPFQCFLAHQAVRTLQWCKANSHFLV
 SAGSDRIKFWDLRRPYEPINSIKRFLSTELAWLLPYNGVTVAQDNCYASYGLCGIHYIDAGYLGFKAYF
 TAPRKGTVWSLGSDDLGTIAAGDISGELIAAILPDMALNPINVKRPVERRFPYKADLIPYQDSPEGPD
 HSSASSGVPNPPKARTYTETVNHYYLLFQDIDLGSFHDLLRREPMLRMQEGEGHSQCLCLDRLQLEAIHKV
 RFPNLDYSGWLVSQGQSLVRIHFVRGLASPLGHRMQLESRAHFNAMFQPSSPTRRPGFSPTSHRLLPT
 P

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6011_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



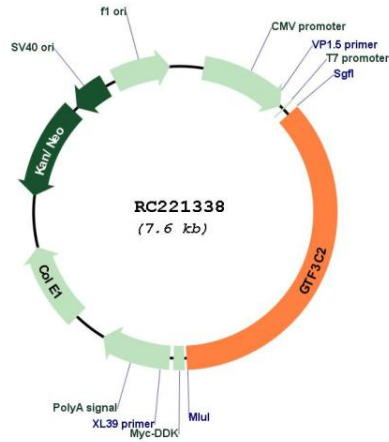
* The last codon before the Stop codon of the ORF

ACCN: NM_001035521

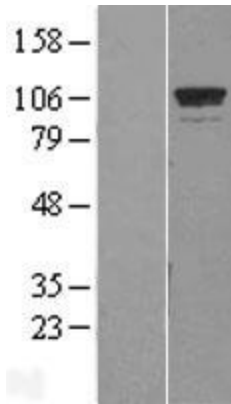
ORF Size: 2733 bp

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_001035521.2 , NP_001030598.1
RefSeq Size:	3900 bp
RefSeq ORF:	2736 bp
Locus ID:	2976
UniProt ID:	Q8WUA4
Cytogenetics:	2p23.3
Protein Families:	Transcription Factors
MW:	100.7 kDa
Gene Summary:	Required for RNA polymerase III-mediated transcription. Component of TFIIC that initiates transcription complex assembly on tRNA and is required for transcription of 5S rRNA and other stable nuclear and cytoplasmic RNAs. May play a direct role in stabilizing interactions of TFIIC2 with TFIIC1.[UniProtKB/Swiss-Prot Function]

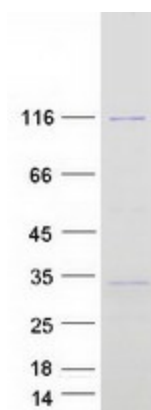
Product images:



Circular map for RC221338



Western blot validation of overexpression lysate (Cat# [LY422140]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221338 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GTF3C2 protein (Cat# [TP321338]). The protein was produced from HEK293T cells transfected with GTF3C2 cDNA clone (Cat# RC221338) using MegaTran 2.0 (Cat# [TT210002]).