

Product datasheet for **MG211139**

Gtf3c2 (NM_027901) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf3c2 (NM_027901) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gtf3c2
Synonyms:	1300004C11Rik; 2610510G03Rik; AI225816; AU041069; mKIAA0011; TFIIC110
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211139 representing NM_027901
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGATACCTGCGGGGTGCGCTATGTTGCCTGGGGAGGCCACCCCGTGGGAGCATGATTGTGGTAG
 ACTCTCCTGGACAAGAAGAACTAAGCCAGCTGGATGTCAAGGCCTCCTCAGAAACGTCCGGTGTGGAGGC
 TTCATCGAGATGTCACTACCTCCTCTTTGCCTGGATTGAGGATTCTTCTGACAAGAGGAGGCTTCTCT
 CCAGATCAGGAAAGCCTCACCAGGTTGGAACAGCAAGATCTTTCTCAGAGATGTCAAAGGTCTCAAACA
 CTAGGGCCTCAAAGCCTTCCGGGAGGAGAGGTGGTAGGACAGCAAGAGGCCGTAAAAGGCCTCAGCAACG
 TAAACCTCATCTACCCCTCTGGTTCTGGTCTCTTAGATCAGTCCAACCCCTCTGTCCACCCCATGCTT
 AAGAAACGAAGTCAAAGTCCAAGGAGACCTGCTACTATTGAAGTTGTCAAAGGCCTAGATCAGCCAG
 AGTCTCCACATCAAAGAGGCCCCCGAGGACTTTGAGACCCCTTCTGGGGAACGACCCCGCGAAGGGC
 TGCCCAAGTGGCACTTCTATACCTCAGGAACTAGCTGAAGAGCTCTCCAGCCCTGCCTGCACCGCCA
 CTGTCTGGTCTAAGAGTCCAAGGTGAGCAGCCACGAAGCCGAAGAAGACCCGGCAAGCATCTCTC
 AGGGTGAAGAAGACGGAAGCGCTCGGGATGAAGACTTTGTTCTCCAGGTCGAGGGTGAAGATGAGGAAGA
 AAGTGAGGCCCAAGTGAGAAGTCTGATCCGGAGCCTGTTGCACCCCGAAGCACCCACGAGGACCT
 GCTGCAGGAAACAGAAACCACATTGCCGGGCATGGCTCCCAATGGCTTACCCAATTACATCATGGCTC
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 GAGAAGTCTCCCTGTTTTCTGTACAAAGAGAAGGATTCTGAGGATGGCACAATCTACCGAATAAACA
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 CATTGCAGCAAGAAAGCTGTCTGGCAATAGGGCCCACTTTGTCTATGGGATTGCTTGTGACAGTGGCTG
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 AACTCTTCAAGTAGGGTCTGTGCAAGCTCAGACCCCTCTGAGTGTGGTCAAGTGCCTTAGCTGGCTGG
 ATGCTTACCAGACCTCACCACCCTGGCTGCTGGTACTATAATGGCATGGTAGTTTTCTGGAATCTTC
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 AGCCAAACCTGGACTCTATGGATGGTGGTATCTGGGGGCGAGTCAAGGTTGGTTCGGATCCATTTG
 TTCGTGGACTCACCTCTCCGCTGGCCACCGTGTACAGCTTGAAGCCGAGCCAACCTCAATGCTATGTT
 CCAACCGTCTTCCAAGTGAAGGGCTGGTTTCTCTCCAAGCAGCCATTGCCTTCTCCCAATCCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – **GTTTAA**

Protein Sequence: >MG211139 representing NM_027901
 Red=Cloning site Green=Tags(s)

MDTCGVGYVALGEADPVGSMIVVDSPGQEELSQLDVKASSETSGVEASIEMSLPPPLPGFEDSSDKRRLP
 PDQESL TRLEQQDL SSEMSKVSINTRASKPSGRRGGRTARGAKRPQQRKPPSTPLVPGLLDQSNPLSTPMP
 KKRSQKSKGDL LLLKL SKGLDQPE SPHPKRPPEDFETPSGERPRRRAAQVALLYLQELAEELSTALPAPP
 LSGPKSPKVSSPTKPKKTRQASSQGEEDGSARDEDFVLQVEGEDEESEAPSENSSDPEVPAPRSTPRGP
 AAGKQKPHCRGMAPNGLPNYIMAPVWKCLHLTKDLREQHHSFWEFAEWIPVAWKWQLLSELEAAPYLQPE
 EKSP LFSVQREGIPEDGTIYRINRFSSITAHPERWDVSFFTTGGPLWALDWCVPVEGSAASQYVALFSSPD
 MNETHPLSQLHSGPGLLQLWGLGTLQQESCPCGNRAHFVYGIACDSGCIWDLKFCPSGAWHEPETLRKAPL
 LPRLGLLALACSDGKVL LFSLPHP EALLAQPPDAMKPAIYKVQCLATLQVGSVQASDPSECGQCLSLAW
 MPTRPHHHLAAGYYNGMVVFNWLP TNSPLQRIRLSDGSLKLYPFQCF LAHDQAVRTIQWCKANSHFLVSA
 GSDRKIKFWDLR RPYEPINCIKRF LSTELSWLLPYNGVTVAQDNCYASYGLCGIHYIDAGYLGFKAYFTA
 PRKGTVWSLSGSDWLGTV AAGDISGELIAAILLDMASNP INVKKPAERRFP IYKADLIPYQDSPEDQDYS
 STSSETPNPPKARTYTETINHHYLLFQD TDLSSFHNL RRREPLMRMQEGEGHSQLCLDRLQLEAIHKVRF
 SPNLDSYGWLVSGQSGLVRIHFVRGLTSPLAHRVQLES RANFNAMFQPSFPTGPGFSPSSHCLLPNP

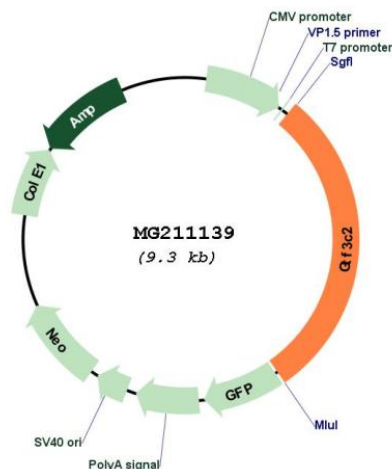
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_027901

ORF Size: 2721 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_027901.2](#), [NP_082177.2](#)

RefSeq Size: 4551 bp

RefSeq ORF: 2724 bp

Locus ID: 71752

UniProt ID: [Q8BL74](#)

Cytogenetics: 5 B1

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 (By similarity).[UniProtKB/Swiss-Prot Function]