

Product datasheet for **MG226079**

Gtf2i (NM_001080748) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2i (NM_001080748) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gtf2i
Synonyms:	6030441I21Rik; BAP-135; Diws1t; Gtfll-I; Spin; TFII-I; WBSCR6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226079 representing NM_001080748
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAAGTAGTGATGTCTGCCTTGCCTGCCGAAGATGAAGAGTCTTCAGAGAGCAGGATGGTGGTGA
 CCTTCTCATGTCTGCCCTGGAGTCCATGTGTAAGAGCTGGCCAAGTCCAAGGCTGAGGTGGCCTGCAT
 TGCTGTGTATGAGACCGACGTGTTTGTGTTGGAACCGAAAGAGGGCGTCTTTTGTCAATACCAGAAAA
 GATTTCCAAAAAGACTTTGTGAAGTATTGTGTTGAAGAAGAAGAAAAGGCCGCCGAGATGCATAAGATGA
 AATCTACCACCCAGGCCAATCGGATGAGTGTGGATGCTGTAGAAAATTGAAACACTCAGAAAAACGGTGG
 GGACTATTTCTGTTTTGCTATGGGAAAGCTTTAGGCAAAATCCACAGTGGTCCCTGTGCCATATGAGAAG
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 ATTACGACCTCGCAACCTTGAAGTGGATTTTGGAGAACAAGGCAGGGATTTCTTCATCATTAAAGAGACC
 TTTCTCGAGCCGAAGAAACACCTCGGTGGTGCAGTGTGGCGGCCGAGGCTGAGAGTCCATGCTGTCT
 CCTAGTGGAAATTGTGGCCCATCAAAGTGAAGTGAACCCACAGAAGATTCTGGCATTCTCTGGAAA
 TGGCCGCTGTGACAGTGAAGGAGGAGTCAAGAACCCCTGATTACTATCAGTATAACATTCAAGGAAGCCA
 TCACTCCTCAGAAGGCAACGAGGGAACGGAAGTGGAAAGTCCAGCAGAAGATGATGACTATTCTCCACCC
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 GCAAAGTGAAGGAGTCAACTTTGAGAAATGGAACGCACGCATCACTGACCTACGGAAACAAGTTGAAGA
 GTTGTTCGAAAGAAAATATGCTCAAGCCATCAAAGCCAAAGGCCCGGTGACGATCCCGTACCCTCTTTTC
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 GCTAGTTGTGTCCTATTTGCCTCCTGGGATGGCTAGCAAAATCAACACTAAAGCATTGCAGTCCCCAAAA
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 AGGGAGAGAGTTTTCTTTGAGGCTGGAATGCTAAGATCACAGACCTGAAGCAGAAAGTGGAGAACCCTC
 TTCAATGAAAAGTGGGGGAAGCGCTTGGCCTTAAGCAGGCTGTGAAAGTCCCCTTTCGCTTGTTCGAGT
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 GAGGATCTTAGACTCTGCGGAGTTTATCAAGTTCAGTGCATTAGACATTTCCAGGACTTGTGATTAAT
 AACCAGCTGGTTGATCAGAACGAGTCTGAAGCCCTGTGATACAAGAATCAGCCGAGGCAAGCCAGTTGG
 AAGTCCCAGTAACAGAAGAAATTAAGAGACAGATGGGAGTTCACAGATCAAGCAGGAGCCAGACCCAC
 GTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG226079 representing NM_001080748
 Red=Cloning site Green=Tags(s)

MAQVMSALPAEDEESSESRMVVTFLMSALESMCKELAKSKAEVACIAVYETDVFVVGTERGRAVNTTRK
 DFQKDFVKYCVVEEEKAEMHKMKSTTQANRMSVDAVEIETLRKTVEDYFCFCYKALGKSTVVPVPEYK
 MLRDQSAAVVVQGLPEGVAFKHPEHYDLATLKWILENKAGISFIIKRPFLPEPKHLGGRVLAEEAERSMLS
 PSGSCGPIKVKTEPTEDSGISLEMAAVTVKEESEDPDYQYNIQGSHSSEGNEGTEVEVPAEDDDYSPP
 TKRLKSTEP PPPPPVPEPANAGKRKRVREFNFEKWNARITDLRKQVEELFERKYAQAIKAKGPVTIPYPLF
 QSHVEDLYVEGLPEGIPFRFPSTYGIPLRERILLAKERIRFVIKHELLNSTREDLQLDKPASGVKEEWY
 ARITKLRKMDQLFCCKFAEALGSTEAKAVPYQKFEAHPNDLYVEGLPENIPFRSPSWYGIPRLEKIIQV
 GNRIFVKRPELLTHSTTEVTQPRNTNTPVKEDWNVRITKLRKQVEEIFNLKFAQALGLTEAVKVPYPVF
 ESNPEFLYVEGLPEGIPFRSPTWFGIPRLERIVRGSNKIKFVVKKPELVVSYLPPGMASKINTKALQSPK
 RPRSPGNSKVPVEIEVTVEGPNNSPQTSAVRTPQTNGSNVPFKPRGREFSFEAWNAKITDLKQKVENL
 FNEKCGEALGLKQAVKVPFALFESFPEDFYVEGLPEGVFPFRPSTFGIPRLEKILRNKAKIKFIIKKPEM
 FETAIKESTSSKSPRKINSSPNVNTTASGVEDLNI IQVTIPDDNERLSKVEKARQLREQVNDLFSRKF
 GEAI GMGFPVKVPYRKITINPGCVVVDGMPGVSFKAPSYLEISSMRRILDSAEIFKFTVIRPFPLVIN
 NQLVDQNESEGPVIQESAEASQLEVPVTEEIKETDGSSQIKQEPDPTW

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

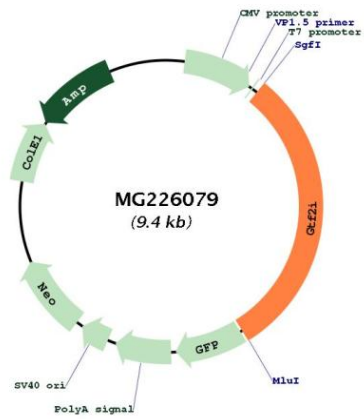


ACCN: NM_001080748

ORF Size: 2874 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_001080748.2
RefSeq Size:	4335 bp
RefSeq ORF:	2877 bp
Locus ID:	14886
UniProt ID:	Q9ESZ8
Cytogenetics:	5 74.48 cM
Gene Summary:	Interacts with the basal transcription machinery by coordinating the formation of a multiprotein complex at the C-FOS promoter, and linking specific signal responsive activator complexes. Promotes the formation of stable high-order complexes of SRF and PHOX1 and interacts cooperatively with PHOX1 to promote serum-inducible transcription of a reporter gene driven by the C-FOS serum response element (SRE). Acts as a coregulator for USF1 by binding independently two promoter elements, a pyrimidine-rich initiator (Inr) and an upstream E-box (By similarity). Required for the formation of functional ARID3A DNA-binding complexes and for activation of immunoglobulin heavy-chain transcription upon B-lymphocyte activation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226079