

## Product datasheet for **MR226048**

### **Gtf2i (NM\_010365) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids   |
| Product Name:             | Gtf2i (NM_010365) Mouse Tagged ORF Clone                      |
| Tag:                      | Myc-DDK   |
| Symbol:                   | Gtf2i   |
| Synonyms:                 | 6030441I21Rik; BAP-135; Diws1t; Gtfll-I; Spin; TFII-I; WBSCR6 |
| Mammalian Cell Selection: | Neomycin  |
| Vector:                   | pCMV6-Entry (PS100001)  |
| E. coli Selection:        | Kanamycin (25 ug/mL)  |



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**ORF Nucleotide Sequence:**

>MR226048 representing NM\_010365  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCAAAGTAGTGATGTCTGCCTTGCCTGCCGAAGATGAAGAGTCTTCAGAGAGCAGGATGGTGGTGA  
 CCTTCCTCATGTCTGCCCTGGAGTCCATGTGTAAGAGCTGGCCAAGTCCAAGGCTGAGGTGGCCTGCAT  
 TGCTGTGTATGAGACCGACGTGTTTGTGTTGGAACCGAAAGAGGGCGTCTTTTGTCAATACCAGAAAA  
 GATTTCCAAAAAGACTTTGTGAAGTATTGTGTTGAAGAAGAAGAAAAGGCCGCCGAGATGCATAAGATGA  
 AATCTACCACCCAGGCCAATCGGATGAGTGTGGATGCTGTAGAAAATTGAAACACTCAGAAAAACGGTGGA  
 GGACTATTTCTGTTTTGCTATGGGAAAGCTTTAGGCAAATCCACAGTGGTCCCTGTGCCATATGAGAAG  
 ATGCTGCGCGACCACTCGGCTGTGGTGGTGCAGGGGCTTCCCAGGGGGTTCCTTCAAGCACCCCGAAC  
 ATTACGACCTCGCAACCTTGAAGTGGATTTTGGAGAACAAGGCAGGGATTCCTTCATCATTAAAGAGACC  
 TTTCTCGAGCCGAAGAAACACCTCGGTGGTTCGAGTGTGGCGGCCGAGGCTGAGAGTCCATGCTGTCT  
 CCTAGTGGAAAGTTGTGGCCCATCAAAGTGAAGAACTGAACCCACAGAAGATTCTGGCATTCTCTGGAAA  
 TGGCCGCTGTGACAGTGAAGGAGGAGTCAGAAGACCTGATTACTATCAGTATAACATTCAGGAAGCCA  
 TCACTCCTCAGAAGGCAACGAGGGAACGGAAGTGGAAAGTCCAGCAGAAGATTCTACTCAACATGTCCCT  
 TCAGAAACCAGTGAAGACCCCGAAGTTGAGGTGACCATTGAAGATGATGACTATTCTCCACCCACCAAGA  
 GGCTAAAGAGCACGAGCCGCCCGCCCGCCCGTCCCGGAGCCCGCAACGCTGGCAAGCGCAAAGT  
 GAGGGAGTTCACTTTGAGAAAATGGAACGCACGCATCACTGACCTACGAAAACAAGTTGAAGAGTTGTC  
 GAAAGAAAATATGCTCAAGCCATCAAAGCCAAAGGCCCGGTGACGATCCCGTACCCTCTTTCCAGTCCC  
 ATGTTGAAGATCTTTACGTAGAAGGGCTTCTTGAAGGGATTCTTTTGAAGGCCGTGACGATACGGCTCTG  
 TCCTCGCCTTGAGAGGATATTGCTGGCGAAGGAAAGGATCCGCTTCGTGATTAAGAAACATGAGCTTCTG  
 AACTCAACACGAGAAGATTTACAGCTTGATAAACACAGCCTCAGGAGTGAAGAAGAGTGGTACGCTCGCA  
 TCACAAACTGAGGAAGATGTTGACCAGCTCTTCTGCAAGAAATTTGCCGAGGCCTTGGGAAGCACGGA  
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 AACATTCTTTCCGAAGCCCTCGTGGTATGGAATCCCAAGACTGGAAAAATCATCCAAGTGGCAATC  
 GAATTAATTTGTATCAAGAGACCAGAGCTGCTCACTCACAGCACAACGAAGTACTCAGCCACGGAC  
 AAACACACCAGTCAAAGAAGATTGGAATGTCAGAATCACCAAGCTCCGAAAGCAAGTGAAGAGATCTTT  
 AATTTGAAGTTTCTGATGTGGAAGGGCTCCCGAAGGGATCCCTTCCGAAGCCCTACCTGGTTTGGGAT  
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 TCCACGCCTCGAGAGGATTGTCCGTGGCAGCAATAAGATCAAGTTTGTGTTAAAAAGCCTGAGCTAGTT  
 GTGTCCTATTTGCCTCCTGGGATGGCTAGCAAAAATCAACACTAAAGCATTGCAGTCCCCAAAACGACCAC  
 GAAGCCCTGGGAGCAACTCCAAGTTCTGAAATTTGAGGTCACTGTGGAAGGCCCAACAACAGCAGTCC  
 TCAGACCTCTGCGGTTCGAACTCTACCCAGACCAATGGTTCAAATGTTCCCTTCAAGCCTCGAGGGAGA  
 GAGTTTCTTTGAGGCCTGGAATGCTAAGATCACAGACCTGAAGCAGAAAGTGGAGAACCTCTTCAATG  
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 CGGCCATCAAAGAGAGCACCTCTTCCAAAAGCCCTCCAAGAAAAGATAAACTCATACCCAACGTTAATAC  
 TACTGCATCAGGTGTGGAAGACCTGAACATCATCCAGGTGACAATTCCAGATGACGATAATGAACGACTG  
 TCCAAAGTTGAAAAGGCCAGGCAGCTGCGGGAGCAGGTCAACGACCTCTTCAAGTCCGGAAGTTTGGTGAAG  
 CTATTGGGATGGGCTTCCCGGTGAAGGTCCCCTACAGGAAGATCACCATCAACCTGGCTGCGTGGTGGT  
 CGATGGCATGCCCCCGGGGTGCTTCAAAGCCCCAGTTACCTGGAGATCAGCTCCATGAGGAGGATC  
 TTAGACTCTGCGGAGTTTATCAAGTTCAGTGTCTATTAGACCATTTCCAGGACTTGTGATTAATAACCAGC  
 TGTTGATCAGAACGAGTCTGAAGGCCCTGTGATACAAGATCAGCCGAGGCAAGCCAGTTGGAAGTCCC  
 AGTAACAGAAGAAATTAAGAGACAGATGGGAGTTCACAGATCAAGCAGGAGCCAGACCCACCTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR226048 representing NM\_010365  
 Red=Cloning site Green=Tags(s)

MAQVMSALPAEDEESSESRMVVTFLMSALESMCKELAKSKAEVACIAVYETDVFVVGTERGRAVNTTRK  
 DFQKDFVKYCVVEEEKAEMHKMKSTTQANRMSVDAVEIETLRKTVEDYFCFCYKALGKSTVVPVPEYK  
 MLRDQSAAVVVQGLPEGVAFKHPEHYDLATLKWILENKAGISFIIKRPFLPEPKKHLGGRVLAEEAERSMLS  
 PSGSCGPIKVKTEPTEDSGISLEMAAVTVKEESEDPPDYQYNIQGSHSSEGNEGTEVEVPAEDSTQHVP  
 SETSEDPEVEVTIEDDDYSPPTKRLKSTEP PPPPPVPEPANAGKRKVREFNFEKWNARITDLRKQVEELF  
 ERKYAQAIKAKGPVTIPYPLFQSHVEDLYVEGLPEGIPFRFPSTYGIPLRERILLAKERIRFVIKKHELL  
 NSTREDLQLDKPASGVKEEWYARITKLRKMVDQLFCCKFAEALGSTEAKAVPYQKFEAHPNDLYVEGLPE  
 NIPFRSPSWYGIPLREKIIQVGNRIKFVIKRPELLTHSTTEVTQPRNTPTVKEDWNVRITKLRKQVEEIF  
 NLKFAQALGLTEAVKVPYPVFESNPEFLYVEGLPEGIPFRSPTWFGIPLRERIVRGSNKIKFVVKKPELV  
 VSYLPPGASKINTKALQSPKRRSPGSNSKVPEIEVTVEGPNNSPQTSAVRTPQTNGSNVPFKPRGR  
 EFSFEAWNAKITDLKQKVENLFNEKCGEALGLQAVKVPFALFESFPEDFYVEGLPEGVFPFRPSTFGIP  
 RLEKILRNKAKIKFIIKKPEMFETAIKESTSSKSPPRKINSSPNVNTTASGVEDLNIIQVTIPDDNERL  
 SKVEKARQLREQVNDLFSRKFGAIGMFPVKVPYRKITINPGCVVVDGMPPGVFSKAPSYLEISSMRRIL  
 LDSAEFIKFTVIRPFPGLVINQLVDQNESEGPVIQESAEASQLEVPVTEEIKETDGSQIKQEPDPTW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

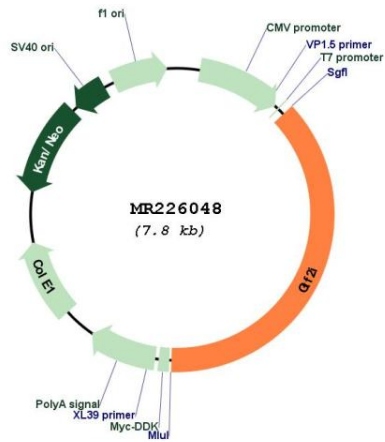


**ACCN:** NM\_010365

**ORF Size:** 2937 bp

|                               |   |
|-------------------------------|---|
| <b>OTI Disclaimer:</b>        | 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. <a href="#">More info</a>  |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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).  |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>   |
| <b>RefSeq:</b>                | <a href="#">NM_010365.4</a>   |
| <b>RefSeq Size:</b>           | 4384 bp   |
| <b>RefSeq ORF:</b>            | 2940 bp   |
| <b>Locus ID:</b>              | 14886   |
| <b>UniProt ID:</b>            | <a href="#">Q9ESZ8</a>  |
| <b>Cytogenetics:</b>          | 5 74.48 cM  |
| <b>MW:</b>                    | 110.7 kDa   |
| <b>Gene Summary:</b>          | 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 MR226048