

## Product datasheet for **RN202933**

### **Gtf2i (NM\_001001512) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gtf2i (NM_001001512) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Gtf2i
Synonyms:	Gtf2ird1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:**

&gt;RN202933 representing NM\_001001512

Red=Cloning site Blue=ORF Orange=Stop codon

 TTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCAAAGTAGCGATGTCGCGCTGCCTGCGGAGGATGAGGAGTCTTCGGAGAGCAGGATGGTGGTGA  
 CGTTCCTCATGTCTGCCCTGGAGTCCATGTGTAAGAGCTGGCCAAGTCCAAGGCTGAGGTGGCCTGCAT  
 CGCCGTGTATGAGACAGATGTGTTTGTCTGTTGGAACCGAAAGAGGGCGTCTTTTGTCAATACCAGAAAA  
 GATTTCCAAAAAGATTTTGTGAAGTATTGTGTTGAAGAAGAAGAAAAGGCCGCCGAGATGCATAAGATGA  
 AATGTACAACCCAGGCCAACCGGATGAGCGTGGATGCTGTAGAAATTGAGACCCTCAGAAAAACGGTGGGA  
 GGACTATTTCTGCTTTTGTATGGGAAAGCCTTAGGCAAATCCACAGTGGTCCCTGTGCCATATGAGAAG  
 ATGCTGCGTGACCAGTCAGCTGTGGCGGTGCAGGGGCTTCCCAGGGGGTGCCTTCAAGCATCCCGAGC  
 ACTATGACCTCGCAACCTTGAAGTGGATTCTGGAGAACAAGCGGGGATTCCTTCATCATCAAGAGACC  
 TTTCTCGAGCCGAAGAAACACCTTGGTGGTGCAGTGTGCGGGCCGATGCTGACAGGCCATGCTGTCT  
 CCGGGTGGAAATTGTGGCCCATCAAAGTGAAAACCTGAGCCACGGAAGATTCTGATGATGATTATTCTC  
 CACCTACCAAGAGGCCAAGAGCAGTGAGCCGCCCCACCCACCGGTCCCAGAGCCACCAACGCCGG  
 CAAGCGCAAAGTGAAGGAGTTCAACTTTGAGAAATGGAACGCGCGCATCACTGACCTACGGAAAACAAGT  
 GAAGAATTGTTTGAAGAAAATACGCTCAAGCTATAAAGCCAAAGGCCCGGTGACGATCCCATACCCCTC  
 TTTTCCAGTCGCACGTGGAAGATCTGTATGTAGAGGGCCTTCTGAAGGGATCCCCTTTAGAAGGCCATC  
 AACGTACGGCATTCTCGCTGGAGAGGATATTGCTGGCAAAGGAGAGGATCCGCTTTGTATCAAGAAA  
 CATGAGCTTCTGAACTCAACACGAGAAGATTTACAGCTGGACAAGCCCGCATCAGGAGTGAAGGAAGAGT  
 GGTATGCTCGTATCACCAAACTGAGGAAGATGGTTGACCAGCTCTTCTGCAAGAAATTTGCTGAGCGCTT  
 GGAAGCACAGAAGCCAAAGGCTGTACCGTACCAAAAATTCGAGGCCATATCCCAATGATCTCTATGTGAA  
 GGACTTCCAGAAAACATTCTTTCCGAAGCCCTCATGGTATGGAATCCCAAGACTGGAATAAATCATCC  
 AAGTGGGCAATCGAATTAATTTGTTATCAAGAGACCAGAAGTGTGACTCACAGTACAAGTGAAGTGC  
 TCAGCCACGGACGAATACGCCAGTCAAGGAAGATTGGAACGTCAGGATCACCAAGCTCCGCAAGCAGGTG  
 GAGGAGATCTTTAACTTGAAGTTTGCTCAAGCTCTTGGCCTCACAGAGGCTGTGAAGGTGCCGTATCCTG  
 TGTTGCAATCAACCCAGAATTTCTGTATGTGGAAGGGCTCCCTGAGGGGATCCCCTTCCGAAGCCCTAC  
 CTGTTTTGGGATCCACGCCCTTGAAGGATTGTCCGTGGGAGCAATAAGATCAAGTTTGTGTTAAAAAG  
 CCCGAGCTAGTTGTCTACTTGCCTCCTGGGATGGCTAGCAAATCAACACTAAGCATTGCAGTCCC  
 CGAAACGACACGAAGCCCTGGGAGCAACTCCAAGGTCCCTGAAATCGAGGTCACGTGGAAGGCCCCAA  
 CAACAACAGTCTCAGACCTCTACCGTTGAACTCCTACCCAGACCAACGGTTCAAACGTTCCCTTCAAG  
 CCTCGAGGGAGAGAGTTTTCTTTGAGGCCTGGAACGCTAAGATCACAGACCTGAAGCAGAAAAGTGGAGA  
 ATCTCTTCAATGAAAAGTGCGGGAAGCTTTGGCCTTAAGCAGGCTGTGAAAGTACCGTTTGGCCTATT  
 TGAGTCCTTCCCAGAGGACTTCTACGTAGAAGGCTTACCCGAGGGCGTGCCCTTCCGAAGACCATCCACT  
 TTTGGCATTCCAAGGCTGGAGAAGATCCTCCGGAACAAGGCCAAGATAAAGTTCATCATTAAAAACCTG  
 AGATGTTTCGAGACGGCCATCAAAGAGAGCACCTTCCAAAAGCCCTCCGAGGAAGACGAACTCATCCCC  
 CAGTGTCAATACGACAGCCTCAGGTGTGGAAGATCTTAACATCATTAGGTGACAAATCCAGATGACGAC  
 AACGAACGACTCTCCAAAGTCGAGAAGGCCAGGCAGCTTCGGGAGCAAGTCAACGACCTTTCAGCCGAA  
 AGTTTGGTGAAGCTATTGGGATGGGCTTCCCCGTGAAGTCCCCTACAGGAAAATCACCATCAACCTGG  
 CTGCGTGGTGGTGCATGGCATGCCCCGGGGTGTCTTCAAAGCCCCAGCTATCTGGAGATCAGCTCC  
 ATGAGAAGGATCTTAGATTCTGTGAGTTTATCAAGTTCACTGTCTTAGACCATCCAGGACTGGTGA  
 TTAATAACAGCTGGTTGATCAGAATGAGTCTGAAGGCCCTGTGATACAAGAATCAGCTGAGGCAAGCCA  
 GTTGAAGTTCAGCAACAGAAGAAATCAAAGAGACAGATGGGAGCTCACAGATCAAGCAGGAGCCAGAC  
 CCCACGTGGTAG

 A**CGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

SgfI-MluI

<b>ACCN:</b>	NM_001001512
<b>Insert Size:</b>	2742 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<u><a href="#">NM_001001512.2</a></u> , <u><a href="#">NP_001001512.2</a></u>
<b>RefSeq Size:</b>	3988 bp
<b>RefSeq ORF:</b>	2742 bp
<b>Locus ID:</b>	353256
<b>UniProt ID:</b>	<u><a href="#">Q5U2Y1</a></u>
<b>Cytogenetics:</b>	12q12
<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 (By similarity).[UniProtKB/Swiss-Prot Function]