

## Product datasheet for **RR202933**

### **Gtf2i (NM\_001001512) Rat Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>RR202933 representing NM\_001001512  
 Red=Cloning site Blue=ORF Green=Tags(s)

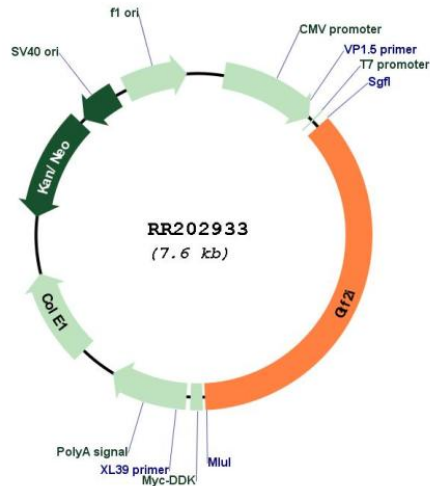
TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

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 CGCCGTGTATGAGACAGATGTGTTTGTCTGGTGAACCGAAAGAGGGCGTCTTTTGTCAATACCAGAAAA  
 GATTTCCAAAAAGATTTTGTGAAGTATTGTGTTGAAGAAGAAGAAAAGGCCGCCGAGATGCATAAGATGA  
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 GGACTATTTCTGCTTTTGTATGGGAAAGCCTTAGGCAAATCCACAGTGGTCCCTGTGCCATATGAGAAG  
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 GTTGAAGTTCAGCAACAGAAGAAATCAAAGAGACAGATGGGAGCTCACAGATCAAGCAGGAGCCAGAC  
 CCCACGTGG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAAGTTTAA



## Plasmid Map:



ACCN: NM\_001001512

ORF Size: 2739 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\\_001001512.2](#), [NP\\_001001512.2](#)

RefSeq Size: 3988 bp

RefSeq ORF: 2742 bp

Locus ID: 353256

UniProt ID: [Q5U2Y1](#)

Cytogenetics: 12q12

**MW:** 103 kDa

**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 derived 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]