

## Product datasheet for MC223590

### Gtf2ird1 (NM\_001081462) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2ird1 (NM_001081462) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Gtf2ird1
Synonyms:	1700012P16Rik; BEN; Cream1; ESTM9; Gtf2il; GTF3; MusTRD1; Tg(Alb1-Myc)166.8Sst; WBSCR11; X83320
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC223590 representing NM_001081462 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCTTGTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT  
TCGCCCCGAAAGGACGAACATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCGCTCTCCAA  
GCTGAACACGGAGGTGGCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA  
AGGGTGTTCCTGAACACTCGGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGGGACCCCTGTGGA  
ACGATCCAGAAGCAGGACACCCTAAAAAGGTGCAGCGCTGTGAAGCGGTGGCCGGAGCCTCCCGCGGTC  
CTCTCTGGAGCAGTGTGCGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT  
AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGAGCCGGGGCTAC  
TGGCGGTGCAGGGGCTGCCGAGGGCTGGCCTTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT  
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ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTCTGCTACCAAGGGGTCCCGAGACTGTGGTCTGCATG  
GCCAGGCTCCAAGGTCGCTCCCAAGACCTGACCCCAACCGCCACCCATCCTCTATGGCAACTTCT  
GTACAGCACTTCGATGCCCAACACACGATCCGGAACTCAAGCAGGAGGTGCCAACCTGCCCGTTGACC  
CCCAGCACCTGGGCATGGCTGGCCCGTGCCTGAGCCCATGTCCCAGCACCAAGATTCTCTGAT  
GCTGTGGACAGACGCTGCAGGGCTGCTGGCCCTCTCATCCAGAATGTCATGCTTCCAAGGCATCCT  
CTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGATCCCTTCATCAAGGAAATGGAGGACATCAATACC  
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TGGAGCCAGCTAGCCACCAGAAGACACTTCCACAGAAGTCTGTAGGGACAGCATGCTGGACCTGGCTGG  
GACTGCTTGGTCAGACATGAGCAGCGTCTCTGAAGACTGTGGCCAGGAACCTCAGGAGAGATAGCAATG



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TTGAGGCCTATCAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA
CCTCTGAGGAGATGACTGACTCGTTACCTGGGCATCTGCCCTCAGAGGATTCCGGTTATGGGATGGAAAT
GCCGGCTGACAAAGGCCCCAGTGAAGAACCGTGGTCAGAAGAGAGGCCGGCCGAAGAGAGCCCTGGTGAC
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TGAAGGCATCTCTCTCGGAGACCCAAGTCTTTGGGATTGCAAAGCTGCGGAAGATTCTGGAAGCGAGC
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CTCAAGAGAGGGACTCCTGGGACCGTCTTGTGGACGAGACCCCGAAGAGACAGGGCCTTCAAGAAAATTA
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GCTCGGTAAATCATTGAAGGCCTACCCCCGGGATCCCATCCGCAAAACCTGCACCTTTGGCTCCAGAA
CCTGGAAGGATTCTCTGTGGCTGACAAGATCAAGTTCACGGTACCAGGCCATTCCAAGGACTTATC
CCAAAGCCTGAAACAAAATTCTACTACAGGACATGAAGCTGGGAAAACCACAGACCAAGGAGACTGC
AACAGGACACCTGGCAGCCAGATGAGGATGATGCCAACAGACTGGGGGAGAAGGTGATCCTCCGAGAGCA
GGTGAAGGAGCTTTCAATGAGAAATACGGTGAGGCCCTGGGACTGAATCGGCCTGTGCTGGTCCCTTAC
AAACTGATCCGGGACAGCCAGATGCCGTGGAGGTGAAGGGCCTCCAGATGACATCCCCTTCCGGAACC
CCAACACCTATGACATCCATCGGCTGGAGAAGATCCTGAAGGCCAGGGAGCATGTGCGGATGGTATCAT
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CTCGGGAAGAAGGTGATCCTCCGAGAGCAGGTGAAGGAGCTCTTCAATGAGAAAACGGTGAAGCCCTGG
GACTGAATCGGCCTGTGCTGGTCCCTTACAAACTGATCCGGGACAGCCAGATGCCGTGGAGGTGAAGGG
CCTCCAGATGACATCCCCTCCGGAACCCCAACCTATGACATCCATCGGCTGGAGAAGATCCTGAAG
GCCAGGGAGCATGTGCGGATGGTATCATCAACCAGCTCCAACCTTTGGGGACGCTGCAACAATGCCA
AGGTGCCAGCCAAGACAACATCCCAAGCGCAAGAGAAAGAGGGTCTCTGAAGGCAACTCAGTCTCCTC
TTCTTCTCCTCTTCTATCTTCGTCTCTAACCCAGAGTCTGTGGCATCCACCAACCAGATCTCCCTCGTG
GTAAGTACGCGGATCCGAACCTCACCTAATTCTGTGTGCCCTTTGCCCTTCTCGGCAGGGCCAT
CCACAGCTCCAGGAAGTGGGAGGCACTGGGCTCTGAGAGGGACTCAGCCAACCACAGAGGGGCAGGCACA
TCCACTCGTTTTGCCACAAGTAG
    
```

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001081462
- Insert Size:** 3315 bp
- OTI Disclaimer:** 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).
- 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\\_001081462.2](#), [NP\\_001074931.1](#)

RefSeq Size: 4711 bp

RefSeq ORF: 3315 bp

Locus ID: 57080

UniProt ID: [Q9JI57](#)

Cytogenetics: 5 74.55 cM

**Gene Summary:** May be a transcription regulator involved in cell-cycle progression and skeletal muscle differentiation. May repress GTF2I transcriptional functions, by preventing its nuclear residency, or by inhibiting its transcriptional activation. May contribute to slow-twitch fiber type specificity during myogenesis and in regenerating muscles. Binds troponin I slow-muscle fiber enhancer (USE B1). Binds specifically and with high affinity to the EFG sequences derived from the early enhancer of HOXC8.[UniProtKB/Swiss-Prot Function]  
Transcript Variant: This variant (2) differs in the 3' coding region and the 3' UTR, as compared to variant 1. The encoded isoform (b) has a longer and distinct C-terminus, as compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.