

Product datasheet for **MC223452**

Gtf2ird1 (NM_001081463) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2ird1 (NM_001081463) 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:	>MC223452 representing NM_001081463 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTTGTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT
TCGCCCCGAAAGGACGAACATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCGCTCTCCAA
GCTGAACACGGAGGTGGCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA
AGGGTGTTCGAACTCGGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGGGACCCCTGTGGA
ACGATCCAGAAGCAGGACACCCTAAAAGGTGCAGCGCTGTGAAGCGGTGGCCGAGCCTCCCGCGGTC
CTCTCTGGAGCAGTGTGCGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT
AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGAGCCGGGCTAC
TGGCGGTGCAGGGGCTGCCGAGGGCTGGCCTTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT
GGCCATATTGGAGCACAGTCACCGAATTCGGTTAAAGCTCAGGAGGCCTCCTGATGACGGTGGGCAGGAC
ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTGCTACCAAGGGGTCGCCGAGACTGTGGTCTGCATG
GCCAGGCTCCAAGGTCGCTCCCCAAGACCTGACCCCAACCGCCACCCATCCTCTATGGCAACTTCT
GTACAGCACTTCGATGCCCAACACAGATCCGGGAACCAAGCAGGAGGTGCCAACCTGCCCGTTGACC
CCCAGCACCTGGGCATGGCTGGCCCGTGCCTGAGCCCATGTCCCAGCACCAAGATTCTCTGAT
GCTGTGGACAGACGCTGCAGGGCTGCTGGCCCTCTCATCCAGAATGTCATGCTTCCAAGGCATCCT
CTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGATCCCTTCATCAAGGAAATGGAGGACATCAATACC
CTGCGGGAGTGCCTGCAGATTCTGTTTAAACAGCAGATACGCGGAAGCCCTGGGCTGGACCACATGGTCC
CTGTGCCCTATAGGAAGATTGCCTGTGACCCCGAGGCTGTGAAAATTGTGGGATTCCAGACAAGATCCC
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TTCATTATCAAGAGAATGTCGATGAGCGCATTTTACAGGGAACAAGTTTACCAAGACCCCATGAAGC
TGGAGCCAGCTAGCCACCAGAAGACACTTCCACAGAAGTCTGTAGGGACAGCATGCTGGACCTGGCTGG
GACTGCTTGGTCAGACATGAGCAGCGTCTGAAGACTGTGGCCAGGAACCTCAGGAGAGATAGCAATG



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TTGAGGCCTATCAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA
CCTCTGAGGAGATGACTGACTCGTTACCTGGGCATCTGCCCTCAGAGGATTCCGGTTATGGGATGGAAAT
GCCGGCTGACAAAGGCCCAAGTGAAGAACCCTGGTTCAGAAAGAGAGGCCGGCCGAAGAGAGCCCTGGTGC
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CAGAGCCGGTCAAGGTGCCCTACTCCAAGTTCCTGATGCACCCGGAGGAGCTGTTCTGACTGGGACTGCC
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CTCAAGAGAGGGACTCCTGGGACCGTCTTGTGGACGAGACCCCGAAGAGACAGGGCCTTCAAGAAAATTA
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GCTCGGTAAATCATTGAAGGCCTACCCCCGGGATCCCATTCCGCAAAACCTGCACCTTTGGCTCCCAGAA
CCTGGAAGGATTCTCTGTGGCTGACAAGATCAAGTTCACGGTACCAGGCCATTCCAAGGACTTATC
CCAAAGCCTGATGAGGATGATGCCAACAGACTGGGGGAGAAGGTGATCCTCCGAGAGCAGGTGAAGGAGC
TCTTCAATGAGAAATACGGTGAAGGCCTGGGACTGAATCGGCCTGTGCTGGTCCCTTACAAACTGATCCG
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GACATCCATCGGCTGGAGAAGATCCTGAAGGCCAGGGAGCATGTGCGGATGGTCAATCAACCAGCTCC
AACCCCTTTCGCGAAGTCTGCAATGACCCCAAGGTGCCAGAGGAGGATGACTCTAACAAGCTCGGGAAGAA
GGTATCCTCCGAGAGCAGGTGAAGGAGCTTCAATGAGAAATACGGTGAAGGCCCTGGGACTGAATCGG
CCTGTGCTGGTCCCTTACAAACTGATCCGGGACAGCCAGATGCCGTGGAGGTGAAGGGCCTCCCAGATG
ACATCCCCTTCCGGAACCCCAACACCTATGACATCCATCGGCTGGAGAAGATCCTGAAGGCCAGGGAGCA
TGTGCGGATGGTCAATCAACCAGCTCCAACCTTTTGGGACGCTGCAACAATGCCAAGGTGCCAGCC
AAAGACAACATCCCAAGCGCAAGAGAAAGAGGGTCTCTGAAGGCAACTCAGTCTCCTCTTCTTCTCCT
CTTCATCTTCTGCTCTAACCAGAGTCTGTGGCATCCCAACCAGATCTCCCTCGTGGTAAAGTCAGC
CGGATCCGAACTTACCCTAATTCTGTGTGGCCTTTGCCCTTCCCTCGGGCAGGGCCATCCACAGCTCCA
GGAAGTGGGAGGCACTGGGCTCTGAGAGGACTCAGCCAACCACAGAGGGCAGGCACATCCACTCGTTT
TGCCACAAGATAG

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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001081463
- Insert Size:** 3234 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_001081463.2](#), [NP_001074932.1](#)

RefSeq Size: 4630 bp

RefSeq ORF: 3234 bp

Locus ID: 57080

UniProt ID: [Q9J157](#)

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 (3) differs in the 3' coding region and the 3' UTR, as compared to variant 1. The encoded isoform (c) lacks an internal segment and 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.