

Product datasheet for **MC229306**

Gtf2ird1 (NM_001081464) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2ird1 (NM_001081464) 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:	>MC229306 representing NM_001081464 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTTGTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT
TCGCCCCGAAAGGACGAACATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCGCTCTCCAA
GCTGAACACGGAGGTGGCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA
AGGGTGTTCGAACTCGGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGGGACCCCTGTGGA
ACGATCCAGAAGCAGGACACCCTAAAAAGGTGCAGCGCTGTGAAGCGGTGGCCGAGCCTCCCGCGGTC
CTCTCTGGAGCAGTGTGCGATGTGTACCTGCTGCAAGATGGTAGAGGAAGTGTGATGTTCTTTAT
AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGAGCCGGGCTAC
TGGCGGTGCAGGGGCTGCCGAGGGCTGGCCTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT
GGCCATATTGGAGCACAGTCACCGAATTCGGTTAAGCTCAGGAGGCTCCTGATGACGGTGGGCAGGAC
ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTGCTACCCAAGGGTCCCGAGACTGTGGTCTGCATG
GCCAGGCTCCAAGGTCGCTCCCAAGACCTGACCCCAAGGCTCCCGAGACTGTGGTCTGCATG
GTACAGCACTTCGATGCCCAACACAGATCCGGAACTCAAGCAGGAGGTGCCAACCTGCCCGTTGACC
CCCAGCACCTGGGCATGGCTGGCCCGTGCCTGAGCCCATGTCCCAGCACCAAGATTCTCTGAT
GCTGTGGACAGACGCTGCAGGGCTGCTGGGCTCTCATCCAGAATGTCATGCTTCCAAGGCATCCT
CTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGATCCCTTCATCAAGGAAATGGAGGACATCAATACC
CTGCGGGAGTGCCTGCAGATTCTGTTTAAACAGCAGATACGCGAAAGCCCTGGGCTGGACCACATGGTCC
CTGTGCCCTATAGGAAGATTGCCTGTGACCCCGAGGCTGTGAAAATTGTGGGATTCCAGACAAGATCCC
CTTCAAGCAGCCCTGTACTTACGGAGTGCCGAAGCTGAAGAGGATTCTGGAGGAGCGACACAGCATTAC
TTCATTATCAAGAGAATGTCGATGAGCGCATTTTACAGGGAACAAGTTTACCAAGACCCCATGAAGC
TGGAGCCAGCTAGCCACCAGAAGACACTTCCACAGAAGTCTGTAGGGACAGCATGCTGGACCTGGCTGG
GACTGCTTGGTCAGACATGAGCAGCGTCTGTAAGACTGTGGCCAGGAACCTCAGGAGAGATAGCAATG



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TTGAGGCCTATCAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA
 CCTCTGAGGAGATGACTGACTCGTTACCTGGGCATCTGCCCTCAGAGGATTCCGGTTATGGGATGGAAAT
 GCCGGCTGACAAAGGCCCAAGTGAAGAACCCTGGTGCAGAGAGAGGCCGCGCCGAGAGAGCCCTGGTGC
 GTGATCCGGCCCCACGGAAGCAGGTGGAGATGCTGTTCAACACGAAATATGCCAAAGCTATTGGTACCT
 CAGAGCCGGTCAAGGTGCCCTACTCCAAGTTCCTGATGCACCCGAGGAGCTGTTCTGACTGGGACTGCC
 TGAAGGCATCTCTTCGAGACCCAAGTCTTTGGGATTGCAAAGCTGCGGAAGATTCTGGAAGCGAGC
 AACAGCATCCAGTTTGTATCAAGAGACCCGAAGTCTCACTGACGGTGTCAAAGAACCCTGTTCTGGACA
 CTAAGAGAGGGACTCCTGGGACCGTCTTGTGGACGAGACCCGAGAGACAGGGCCTTCAAGAAAATTA
 CAACACCAGACTCTCGGGATCGACATCGCCAACACGCTTAGGGAACAAGTCCAAGACCTGTTTAAACAAG
 AAATACGGTGAAGCTCTGGGCATCAAATACCCAGTGCAGGTGCCCTACAAGAGAATCAAAGCAACCCAG
 GCTCGGTAAATCATTGAAGGCCTACCCCGGGATCCCATTCCGCAAAACCTGCACCTTTGGCTCCCAGAA
 CCTGGAAGGATTCTCTGTGGCTGACAAGATCAAGTTCACGGTACCAGGCCATTCCAAGGACTTATC
 CCAAAGCCTGATGAGGATGATGCCAACAGACTGGGGGAGAAGGTGATCCTCCGAGAGCAGGTGAAGGAGC
 TCTTCAATGAGAAATACGGTGAAGCCCTGGGACTGAATCGGCCTGTGCTGGTCCCTTACAAACTGATCCG
 GGACAGCCAGATGCCGTGGAGGTGAAGGGCCTCCAGATGACATCCCCTTCCGGAACCCCAACACCTAT
 GACATCCATCGGCTGGAGAAGATCCTGAAGGCCAGGGAGCATGTGCGGATGGTATCATCAACCAGCTCC
 AACCTTTGCGGAAGTCTGCAATGACCCCAAGGTGCCAGAGGAGGATGACTCTAAACAAGCTCGGGAAGAA
 GGTGATCCTCCGAGAGCAGGTGAAGGAGCTTCAATGAGAAATACGGTGAAGGCCCTGGGACTGAATCGG
 CCTGTGCTGGTCCCTTACAAACTGATCCGGGACAGCCAGATGCCGTGGAGGTGAAGGGCCTCCCAGATG
 ACATCCCCTTCCGGAACCCCAACACCTATGACATCCATCGGCTGGAGAAGATCCTGAAGGCCAGGGAGCA
 TGTGCGGATGGTATCATCAACCAGCTCCAACCTTTTGGGACGCTGCAACAATGCCAAGGTGCCAGCC
 AAAGACAACATTCCTCAAGCGCAAGAGAAAGAGGGTCTCTGAAGGCAACTCAGTCTCCTCTTCTCCTCT
 TTTCATCTCGTCTCTAACCAGAGTCTGTGGCATCCACCAACCAGATCTCCCTCGTGCAGTGGCCAGT
 GTACATGGTGGACTATTCCGGACTAAACGTGCAGCTTCCGGGCCCCCTTGATTAT **TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001081464
- Insert Size:** 3138 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001081464.2](#), [NP_001074933.1](#)

RefSeq Size: 3527 bp

RefSeq ORF: 3138 bp

Locus ID: 57080

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 (4) lacks an in-frame exon in the coding region, as compared to variant 1. The encoded isoform (d) lacks an internal segment, as compared to isoform a.