

## Product datasheet for **MC229238**

### **Gtf2ird1 (NM\_001244936) Mouse Untagged Clone**

#### **Product data:**

<b>Product Type:</b>	Expression Plasmids
<b>Product Name:</b>	Gtf2ird1 (NM_001244936) Mouse Untagged Clone
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	Gtf2ird1
<b>Synonyms:</b>	1700012P16Rik; BEN; Cream1; ESTM9; Gtf2il; GTF3; MusTRD1; Tg(Alb1-Myc)166.8Sst; WBSCR11; X83320
<b>Vector:</b>	pCMV6-Entry (PS100001)
<b>E. coli Selection:</b>	Kanamycin (25 ug/mL)
<b>Cell Selection:</b>	Neomycin



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**Fully Sequenced ORF:** >MC229238 representing NM\_001244936  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCTTGTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT  
 TCGCCCGCAAGGACGAACCTCATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCCTCTCCAA  
 GCTGAACACGGAGGTGGCCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA  
 AGGGTGTTTCTGAACACTCGGAAGGAGCTACAGTCAGACTTCTCAGTTCTGCCGGGACCCCTGTGGA  
 ACGATCCAGAAGCAGGACACCCTAAAAAGGTGCAGCGCTGTGAAGGCGGTGGCCGGAGCCTCCCGCGGTC  
 CTCTCTGGAGCAGTGTGCGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT  
 AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGAGCCGGGCTAC  
 TGGCGGTGCAGGGCTGCCCGAGGGCTGGCCTCCGGAGGCCAGCAGATATGACCCCAAGGCACTCAT  
 GGCCATATTGGAGCACAGTCACCGAATTCGGTTAAGCTCAGGAGCCTCCTGATGACGGTGGCCAGGAC  
 ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTGCTACCCAAGGGGTCCCGAGACTGTGGTCTGCATG  
 GCCAGGCCTCAAGTTCGCTCCCAAGACCTGACCCCAACCGCCACCCCATCCTCTATGGCCAATTCTCT  
 GTACAGCACTTCGATGCCCAACCAACAGATCCGGGAACCTCAAGCAGGAGGTGCCAACCTGCCCGTTGACC  
 CCCAGCGACCTGGGCATGGGCTGGCCCGTGCCTGAGCCCCATGTCCCAGCACCCAAGATTTCTCTGATT  
 GCTGTGGACAGACGCCTGCAGGGCTGCTGGCCCTCTCATCCAGAATGTCATGCTTCCAAGCGCATCCT  
 CTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGATCCCTTTCATCAAGGAAATGGAGGACATCAATACC  
 CTGCGGGAGTGCCTGCAGATTCTGTTTAAACAGCAGATACGCGGAAGCCCTGGGCCCTGGACCACATGGTCC  
 TGTGCCCTATAGGAAGATTGCCTGTGACCCCGAGGCTGTGAAATTTGGGGATTCCAGACAAGATCCC  
 CTTCAAGCGACCCCTGTACTTACGGAGTGCCGAAGCTGAAGAGGATTCTGGAGGAGCGACACAGCATTAC  
 TTCATTATCAAGAGAATGTTTCGATGAGCGCATTTTACAGGGAACAAGTTTACCAAGACCCCATGAAGC  
 TGGAGCCAGCTAGCCACCAGAAGACACTTCCACAGAAGTCTGTAGGGACAGCATGCTGGACCTGGCTGG  
 GACTGCTTGGTCAGACATGAGCAGCGTCTCTGAAGACTGTGGGCCAGGAACCTCAGGAGAGATAGCAATG  
 TTGAGGCCATCAAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA  
 CCTCTGAGGAGATGACTGACTCGTTACCTGGGCATCTGCCCTCAGAGGATTCGGTTATGGGATGGAAT  
 GCCGGTGCACAAAGGCCCCAGTGAAGAACCCTGGTGCAGAAGAGAGGCCGGCCGAAGAGAGCCCTGGTGAC  
 GTGATCCGGCCCTACGGAAGCAGGTGGAGATGCTGTTCAACACGAAATATGCCAAAGCTATTGGTACCT  
 CAGAGCCGGTCAAGGTGCCCTACTCCAAGTTCTGATGCACCCGGAGGAGCTGTTCTGACTGGGACTGCC  
 TGAAGGCATCTCTCTTCGGAGACCAACTGCTTTGGGATTGCAAAGCTGCGGAAGATTCTGGAAGCGAGC  
 AACAGCATCCAGTTTGTTCATCAAGAGACCCGAACCTGCTCACTGACGGTGTCAAAGAACCTGTTCTGGACA  
 CTCAAGAGAGGGACTCCTGGGACCGTCTTGTGGACGAGACCCGAAGAGACAGGGCCTTCAAGAAAATTA  
 CAACACCAGACTCTCGGGATCGACATCGCCAACACGCTTAGGGAACAAGTCCAAGACCTGTTTAAACAAG  
 AAATACGGTGAAGCTCTGGGCATCAAAATACCCAGTGCAGGTGCCCTACAAGAGAATCAAAAGCAACCCAG  
 GCTCGGTAATCATTGAAGGCCTACCCCGGGATCCCATTCCGCAAAACCTGCACCTTTGGCTCCAGAA  
 CCTGGAAGGATTCTCTGTGGCTGACAAGATCAAGTTCACGGTACCAGGCCATTCCAAGGACTTATC  
 CCAAAGCCTGATGAGGATGATGCCAACAGACTGGGGGAGAAGGTGATCCTCCGAGAGCAGGTGAAGGAGC  
 TCTTCAATGAGAAATACGGTGAAGCCCTGGGACTGAATCGGCCTGTGCTGGTCCCTTACAAACTGATCCG  
 GGACAGCCAGATGCCGTGGAGGTGAAGGGCTCCAGATGACATCCCCTTCCGGAACCCCAACACCTAT  
 GACATCCATCGGCTGGAGAAGATCCTGAAGGCCAGGGAGCATGTGCGGATGGTATCATCAACCAGCTCC  
 AACCTTTGGGACGCTGCAACAATGCCAAGGTGCCAGCCAAAGACAACATTCCAAGCGCAAGAGAAA  
 GAGGGTCTCTGAAGGCAACTCAGTCTCCTCTTCTCCTCTTTCATCTTCTGCTCTAACCAGAGTCT  
 GTGGCATCCCAACAGATCTCCCTCGTGGTAAAGTACGCGGATCCGAACTTACCCTAATTCTGTGT  
 GGCCTTTGCCCTTCTCGGGCAGGGCCATCCACAGCTCCAGGAACTGGGAGGCACTGGGCTCTGAGAGG  
 GACTCAGCCAACCAAGAGGGGCAGGCACATCCACTCGTTTTGCCCAAGAT**AG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001244936
<b>Insert Size:</b>	2925 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>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<a href="#">NM_001244936.1</a> , <a href="#">NP_001231865.1</a>
<b>RefSeq Size:</b>	4321 bp
<b>RefSeq ORF:</b>	2925 bp
<b>Locus ID:</b>	57080
<b>UniProt ID:</b>	<a href="#">Q9JI57</a>
<b>Cytogenetics:</b>	5 74.55 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (11) differs in the 3' coding region and the 3' UTR, as compared to variant 1. The encoded isoform (j) lacks two internal segments 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.</p>