

## Product datasheet for MR224972

### Gtf2ird1 (NM\_020331) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gtf2ird1 (NM\_020331) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**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  
**ORF Nucleotide Sequence:** >MR224972 representing NM\_020331  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCTTGTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT  
 TCGCCCGAAGGACGAACATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCGCTCTCCAA  
 GCTGAACACGGAGGTGGCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA  
 AGGGTGTTCGAACTCGGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGGGACCCCTGTGGA  
 ACGATCCAGAAGCAGGACACCCTAAAAGGTGCAGCGCTGTGAAGCGGTGGCCGGAGCCTCCCGCGGTC  
 CTCTCTGGAGCAGTGTGGATGTGTACCTGTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT  
 AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGGAGCCGGGCTAC  
 TGGCGGTGCAGGGGCTGCCGAGGGCTGGCTTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT  
 GGCCATATTGGAGCACAGTCACCGAATTCGGTTAAGCTCAGGAGGCTCCTGATGACGGTGGGCAGGAC  
 ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTGTCTACCAAGGGGTCCCGAGACTGTGGTCTGCATG  
 GCCAGGCTCCAAGGTCGCTCCCAAGACCTGACCCCAACCGCCACCCATCCTCTATGGCAACTTCT  
 GTACAGCACTTCGATGCCCAACACAGATCCGGGAACCAAGCAGGAGGTGCCAACCTGCCCGTTGACC  
 CCCAGCACTGGGCATGGCTGGCCCGTGCCTGAGCCCATGTCCCAGCACCAAGATTTCTCTGAT  
 GCTGTGGACAGACGCTGCAGGGCTGCTGGCCCTCTCATCCAGAATGTCATGCTTCCAAGGCATCCT  
 TTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGATCCCTTCATCAAGGAAATGGAGGACATCAATACC  
 CTGCGGGAGTGCCTGCAGATTCTGTTTAAACAGCAGATACGCGGAAGCCCTGGGCTGGACCACATGGTCC  
 CTGTGCCCTATAGGAAGATTGCCTGTGACCCCGAGGCTGTGAAAATTGTGGGATTCCAGACAAGATCCC  
 CTTCAAGCGACCTGTACTTACGGAGTGCCGAAGCTGAAGAGGATTCTGGAGGAGCGACACAGCATTAC  
 TTCATTATCAAGAGAATGTCGATGAGCGCATTTTACAGGGAACAAGTTTACCAAGACCCCATGAAGC  
 TGGAGCCAGCTAGCCACCAGAAGACACTCCACAGAAGTCTGTAGGGACAGCATGCTGGACCTGGCTGG  
 GACTGCTTGGTCAGACATGAGCAGCGTCTGAAGACTGTGGCCAGGAACCTCAGGAGAGATAGCAATG



[View online »](#)

TTGAGGCCTATCAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA  
 CCTCTGAGGAGATGACTGACTCGTTACCTGGGCATCTGCCCTCAGAGGATTCCGGTTATGGGATGAAAT  
 GCCGGCTGACAAAGGCCAGTGAAGAACCCTGGTTCAGAGAGAGGCCGGCCGAAGAGAGCCCTGGTAC  
 GTGATCCGGCCCCACGGAAGCAGGTGGAGATGCTGTTCAACACGAAATATGCCAAAGCTATTGGTACCT  
 CAGAGCCGGTCAAGGTGCCCTACTCCAAGTTCCTGATGCACCCGAGGAGCTGTTCTGACTGGGACTGCC  
 TGAAGGCATCTCTCTCGAGACCCAAGTCTTTGGGATTGCAAAGCTGCGGAAGATTCTGGAAGCGAGC  
 AACAGCATCCAGTTTGTATCAAGAGACCCGAAGTCTCACTGACGGTGTCAAAGAACCTGTTCTGGACA  
 CTAAGAGAGGGACTCCTGGGACCGTCTTGTGGACGAGACCCCGAAGAGACAGGGCCTTCAAGAAAATTA  
 CAACACCAGACTCTCGGGATCGACATCGCCAACACGCTTAGGGAACAAGTCCAAGACTGTTTAAACAAG  
 AAATACGGTGAAGCTCTGGGCATCAAATACCCAGTGCAGGTGCCCTACAAGAGAATCAAAAGCAACCCAG  
 GCTCGGTAAATCATTGAAGGCCTACCCCGGGATCCCATTCGCAAAACCTGCACCTTTGGCTCCAGAA  
 CCTGGAAGGATTCTCTGTGGCTGACAAGATCAAGTTCACGGTACCAGGCCATTCCAAGGACTATC  
 CCAAAGCCTGAAACAAAATTCTACTACAGGACATGAAGCTGGGAAAACCACAGACCAAGGAGACTGC  
 AACAGGACACCTGGCAGCCAGATGAGGATGATGCCAACAGACTGGGGGAGAAGGTGATCCTCCGAGAGCA  
 GGTGAAGGAGCTTTCAATGAGAAATACGGTGAAGCCCTGGGACTGAATCGGCCTGTGCTGCTCCCTTAC  
 AAATGATCCGGGACAGCCAGATGCCGTGGAGGTGAAGGGCCTCCAGATGACATCCCTTCCGGAACC  
 CCAACACCTATGACATCCATCGGCTGGAGAAGATCCTGAAGGCCAGGGAGCATGTGCGGATGGTATCAT  
 CAACCAGCTCAAACCTTTGCGGAAGTCTGCAATGACCCCAAGGTGCCAGAGGAGGATGACTCTAAACAAG  
 CTCGGGAAGAAGGTGATCCTCCGAGAGCAGGTGAAGGAGCTTTCAATGAGAAATACGGTGAAGCCCTGG  
 GACTGAATCGGCCTGTGCTGGTCCCTTACAACCTGATCCGGGACAGCCAGATGCCGTGGAGGTGAAGGG  
 CCTCCAGATGACATCCCTTCCGGAACCCCAACCTATGACATCCATCGGCTGGAGAAGATCCTGAAG  
 GCCAGGAGCATGTGCGGATGGTATCATCAACCAGCTCCAACCTTTGGGACGCTGCAACAATGCCA  
 AGGTGCCAGCAAGACAACATTCCTCAAGCGCAAGAGAAAGGGTCTCTGAAGGCAACTCAGTCTCCTC  
 TTCTTCTCCTCTTCTATCTTCTCTCTAACCAGAGTCTGTGGCATCCACCAACCATCTCCCTGTCG  
 CAGTGGCCAGTGTACATGGTGGACTATTCCGGACTAAACGTGCAGCTTCCGGGCCCTTGATTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224972 representing NM\_020331  
 Red=Cloning site Green=Tags(s)

MALLGKHCDIPTNGCGSERWNSTFARKDELINSLVSLDSMCSALSKLNTEVACVAVHNESVFMGTEKG  
 RVFLNTRKELQSDFLRFRCRGLWNDPEAGHPKKVQRCEGGGRSLPRSSLEQCSVDVYLLQKMVEEVDVLY  
 SEAMGRATVVPLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPPDDGGQD  
 TKALVEMNGISLLPKGSRDCGLHGQASKVAPQDLTPTATPSSMANFLYSTSMPNHTIRELKQEVPTCPLT  
 PSDLGMGWVPEPHVPTQDFSDCCGQTPAGPAGPLIQNVHASKRILFSIVHDKSEKWDPFIKEMEDINT  
 LRECVQILFNSRYAEALGLDHMPVVPYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLKRILEERHSIH  
 FIIKRMFDERIFTGNKFTKDPMKLEPASPPEDTSTEVCRDSMLDLAGTAWSDMSSVSEDCGPGTSGEIAM  
 LRPKIEPEELDIIQVTVSDPSPTSEEMTDSLPGHLPSEDSGYGMEMPADKGPSEEPWSEERPAEESPGD  
 VIRPLRKQVEMLFNTKYAKAIGTSEPVKVPYSKFLMHPEELFVLGLPEGISLRRPNCFGIAKLRKILEAS  
 NSIQFVIKRPPELLTDGVKEPVLDTQERDSWDRLVDETPKRQGLQENYNTRL SRIDIANTLREQVQDLFNK  
 KYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGIPFRKPTFGSQNLERILSVADKIKFTVTRPFQGLI  
 PKPETKILTTGHEAGKTRPRRLQDDTWQPEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVLPY  
 KLIRDSPDAVEVKGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPF AEVCNDPKVPEEDSNK  
 LGKKVILREQVKELFNEKYGEALGLNRPVLPYKILIRDSPDAVEVKGLPDDIPFRNPNTYDIHRLEKILK  
 AREHVRMVIINQLQPF GDVCNNAKVPKDNIPKRRKRKRVSEGNSVSSSSSSSSSSNPESVASTNQISLV  
 QWPVYMDVYSLNVQLPGPLDY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

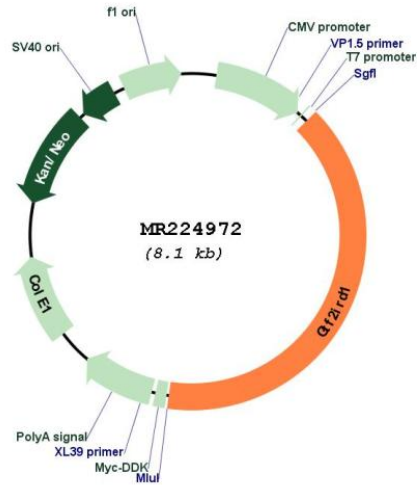
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_020331

ORF Size: 3216 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.

<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_020331.3</a> , <a href="#">NP_065064.2</a>
<b>RefSeq Size:</b>	3613 bp
<b>RefSeq ORF:</b>	3219 bp
<b>Locus ID:</b>	57080
<b>UniProt ID:</b>	<a href="#">Q9J157</a>
<b>Cytogenetics:</b>	5 74.55 cM
<b>MW:</b>	120.7 kDa
<b>Gene Summary:</b>	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]