

## Product datasheet for **MR224987**

### **Gtf2ird1 (NM\_001081468) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gtf2ird1 (NM_001081468) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gtf2ird1
Synonyms:	1700012P16Rik; BEN; Cream1; ESTM9; Gtf2il; GTF3; MustRD1; Tg(Alb1-Myc)166.8Sst; WBSCR11; X83320
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224987 representing NM\_001081468  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTTGTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT  
 TCGCCCGCAAGGACGAACTCATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCCTCTCCAA  
 GCTGAACACGGAGGTGGCCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA  
 AGGGTGTTTCTGAACACTCGGAAGGAGCTACAGTCAAGTCTCCTCAGTTCTGCCGGGACCCTGTGGA  
 ACGATCCAGAAGCAGGACACCCTAAAAAGGTGCAGCGTGTGAAGGCGGTGGCCGGAGCCTCCCGCGGTC  
 CTCTCTGGAGCAGTGTGCGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT  
 AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGAGCCGGGCTAC  
 TGGCGGTGCAGGGCTGCCCGAGGGCTGGCCTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT  
 GGCCATATTGGAGCACAGTCAACGAATTCGGTTAAGCTCAGGAGCCTCCTGATGACGGTGGCCAGGAC  
 ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTCTGCTACCCAAGGGGTCCCGAGACTGTGGTCTGCATG  
 GCCAGGCCTCAAGGTCGCTCCCAAGACCTGACCCCAACCGCCACCCCATCCTCTATGGCCAATTCTCT  
 GTACAGCACTTCGATGCCCAACACACGATCCGGGAACCAAGCAGGAGGTGCCAACCTGCCCGTTGACC  
 CCCAGCGACCTGGGCATGGGCTGGCCCGTGCCTGAGCCCATGTCCCAGCACCCAAGATTTCTCTGATT  
 GCTGTGGACAGACGCCTGCAGGGCTGCTGGCCCTCTCATCCAGAATGTCATGCTTCCAAGCGCATCCT  
 CTTCTCCATCGTCCATGACAAGTCAAGAAAGTGGGATCCCTTCAAGGAAATGGAGGACATCAATACC  
 CTGCGGGAGTGCAGATTCTGTTAACAGCAGATACGCGGAAGCCCTGGGCCTGGACCACATGGTCC  
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 TGGAGCCAGTAGCCACCAGAAGACACTTCCACAGAAGTCTGTAGGACAGCATGCTGGACCTGGCTGG  
 GACTGCTTGGTACAGATGAGCAGCGTCTCTGAAGACTGTGGCCAGGAACCTCAGGAGAGATAGCAATG  
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 CCTCTGAGGAGATGACTGACTCGTTACCTGGGCATCTGCCCTCAGAGGATCCGGTTATGGGATGGAAT  
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 GTGATCCGGCCCTACGGAAGCAGGTGGAGATGCTGTTCAACACGAAATATGCCAAAGCTATTGGTACCT  
 CAGAGCCGGTCAAGGTGCCCTACTCCAAGTTCCTGATGCACCCGAGGAGCTGTTCTGACTGGGACTGCC  
 TGAAGGCATCTCTCTCCGAGACCCAAGTCTTTGGGATTGCAAAGCTGCGGAAGATTCTGGAAGCGAGC  
 AACAGCATCCAGTTTGTATCAAGAGACCCGAAGTCTCACTGACGGTGTCAAAGAACCTGTTCTGGACA  
 CTCAAGAGAGGGACTCCTGGGACCGTCTTGTGGACGAGACCCGAAGAGACAGGGCCTTCAAGAAAATTA  
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 AAATACGATGAGGATGATGCCAACAGACTGGGGGAGAAGGTGATCCTCCGAGAGCAGGTGAAGGAGCTCT  
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 CCTTTGCGGAAGTCTGCAATGACCCCAAGTGCCAGAGGAGGATGACTCTAACAAGCTCGGAAGAAGGT  
 GATCCTCCGAGAGCAGGTGAAGGAGCTCTTCAATGAGAAAACGGTGAAGGCTGGGACTGAATCGGCT  
 GTGCTGGTCCCTTACAACTGATCCGGACAGCCAGATGCCGTGGAGGTGAAGGCTCCAGATGACA  
 TCCCTTCCGGAACCCCAACCTATGACATCCATCGGCTGGAGAAGATCCTGAAGGCCAGGAGCATGT  
 GCGGATGGTATCATCAACCAGCTCAACCTTTGGGGACGTCTGCAACAATGCCAAGGTGCCAGCCAAA  
 GACAACATCCCAAGCGCAAGAGAAAGAGGGTCTCTGAAGGCAACTCAGTCTCTCTCTCTCTCTCTCT  
 CATCTTCTCTCTAACCAGAGTCTGTGGCATCCACCAACCAGATCTCCCTCGTGCAGTGGCCAGTGTA  
 CATGGTGGACTATTCCGACTAAACGTGCAGCTTCCGGGCCCTTGATTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR224987 representing NM\_001081468  
 Red=Cloning site Green=Tags(s)

MALLGKHCDIPTNGCGSERWNSTFARKDELINSLVSALDSMCSALSKLNTEVACVAVHNESVFMGTEKG  
 RVFLNTRKELQSDFLRFCRGLWNDPEAGHPKKVQRCEGGGRSLPRSSLEQCSDVYLLQKMVEEVFDVLY  
 SEAMGRATVVPLPYERLLREPLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPPDDGGQD  
 TKALVEMNGISLLPKGSRDCGLHGQASKVAPQDLTPTATPSSMANFLYSTSMPNHTIRELKQEVPTCPLT  
 PSDLGMGWPVPEPHVPSTQDFSDCCGQTPAGPAGPLIQNVHASKRILFSIVHDKSEKWDPFIKEMEDINT  
 LRECVQILFNSRYAEALGLDHMVPVPYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLKRILEERHSIH  
 FIIKRMFDERIFTGNKFTKDPMKLEPASPPEDTSTEVCRDMSLDLAGTAWSDMSSVSEDCGPGTSGEIAM  
 LRPIKIEPEELDIIQVTVSDPSPTSEEMTDSLPGHLPESDSGYGMEMPADKGPSEEPWSEERPAEESPGD  
 VIRPLRKQVEMLFNTKYAKAIGTSEPVKVPYSKFLMHPEELFVLGLPEGISLRPNCFGI AKLRKILEAS  
 NSIQFVIKRPELLTDGVKEPVLDTQERDSWDRLVDETPKRQGLQENYNTRL SRIDIANTLREQVQDLFNK  
 KYDEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVLPYKLRDSDPAVEVKGLPDDIPFRNPNTYD  
 IHRLEKILKAREHVRMVIINQLQPF AEVCNDPKVPEEDDSNKL GKKVILREQVKELFNEKYGEALGLNRP  
 VLVYPYKLRDSDPAVEVKGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPF GDVCNNAKVPAK  
 DNIPKRKRKRKRVSEGNVSSSSSSSSSSSNPESVASTNQISLVQWPVYMYDYSGLNVQLPGLDY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

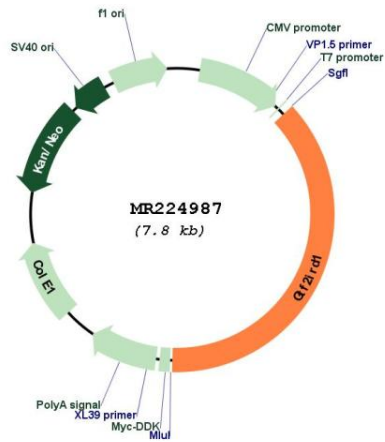


**ACCN:** NM\_001081468

**ORF Size:** 2922 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	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_001081468.2</a> , <a href="#">NP_001074937.1</a>
<b>RefSeq Size:</b>	3319 bp
<b>RefSeq ORF:</b>	2925 bp
<b>Locus ID:</b>	57080
<b>Cytogenetics:</b>	5 74.55 cM
<b>MW:</b>	109.8 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]

Product images:



Circular map for MR224987