

## Product datasheet for **MR224989**

### **Gtf2ird1 (NM\_001081469) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gtf2ird1 (NM_001081469) 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:**

>MR224989 representing NM\_001081469  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCCTTGTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT  
 TCGCCCGCAAGGACGAACCTCATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCCTCTCCAA  
 GCTGAACACGGAGGTGGCCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA  
 AGGGTGTTTCTGAACACTCGGAAGGAGCTACAGTCAAGTCTCAGGTTCTGCCGGGACCCCTGTGGA  
 ACGATCCAGAAGCAGGACACCCTAAAAAGGTGCAGCGTGTGAAGGCGGTGGCCGGAGCCTCCCGCGGTC  
 CTCTCTGGAGCAGTGTGCGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT  
 AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGGAGCCGGGCTAC  
 TGGCGGTGCAGGGCTGCCCGAGGGCTGGCCTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT  
 GGCCATATTGGAGCACAGTCAACGAATTCGGTTAAGCTCAGGAGCCTCCTGATGACGGTGGCCAGGAC  
 ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTCTGCTACCCAAGGGGTCCCGAGACTGTGGTCTGCATG  
 GCCAGGCCTCAAGTCTGCTCCCAAGACCTGACCCCAACCGCCACCCCATCCTCTATGGCCAATTCTCT  
 GTACAGCACTTCGATGCCCAACCAACAGATCCGGGAACCTCAAGCAGGAGGTGCCAACCTGCCCGTTGACC  
 CCCAGCGACCTGGGCATGGGCTGGCCCGTGCCTGAGCCCCATGTCCCAGCACCCAAGATTTCTCTGATT  
 GCTGTGGACAGACGCCTGCAGGGCTGCTGGGCCTCTCATCCAGAATGTCATGCTTCCAAGCGCATCCT  
 CTTCTCCATCGTCCATGACAAGTCAAGAAAGTGGGATCCCTTCAAGGAAATGGAGGACATCAATACC  
 CTGCGGGAGTGCAGATTCTGTTTAAACAGCAGATACGCGGAAGCCCTGGGCCTGGACCACATGGTCC  
 CTGTCCCTATAGGAAGATTGCCTGTGACCCCGAGGCTGTGGAATTTGGGTATTCCAGACAAGATCCC  
 CTTCAAGCGACCCCTGTACTTACGGAGTGCAGCAAGCTGAAGAGGATTCTGGAGGAGCGACACAGCATTAC  
 TTCATTATCAAGAGAATGTTGATGAGCGCATTTTACAGGGAACAAGTTTACCAAGACCCCATGAAGC  
 TGGAGCCAGTAGCCACCAGAAGACACTTCCACAGAAGTCTGTAGGGACAGCATGCTGGACCTGGCTGG  
 GACTGCTTGGTACAGATGAGCAGCGTCTCTGAAGACTGTGGGCCAGGAACCTCAGGAGAGATAGCAATG  
 TTGAGGCCTATCAAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTACCTA  
 CCTCTGAGGAGATGACTGACTCGTTACCTGGGCATCTGCCCTCAGAGGATTCGGTTATGGGATGGAAT  
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 GTGATCCGGCCCTACGGAAGCAGGTGGAGATGCTGTTCAACACGAAATATGCCAAAGCTATTGGTACCT  
 CAGAGCCGGTCAAGGTGCCCTACTCCAAGTTCCTGATGCACCCGGAGGAGCTGTTCTGACTGGGACTGCC  
 TGAAGGCATCTCTCTTCCGAGACCAACTGCTTTGGGATTGCAAAGCTGCGGAAGATTCTGGAAGCGAGC  
 AACAGCATCCAGTTTGTATCAAGAGACCCGAACCTGCTCACTGACGGTGTCAAAGAACCTGTTCTGGACA  
 CTCAAGAGAGGGACTCCTGGGACCGTCTTGTGGACGAGACCCCGAAGAGACAGGGCCTTCAAGAAAATTA  
 CAACACCAGACTCTCGGGATCGACATCGCCAACACGCTTAGGGAACAAGTCCAAGACCTGTTTAAACAAG  
 AAATACGGTGAAGCTCTGGGCATCAAAATACCCAGTGCAGGTGCCCTACAAGAGAATCAAAAGCAACCCAG  
 GCTCGGTAATCATTGAAGGCCTACCCCGGGATCCCATTCCGCAACCCCTGCACCTTTGGCTCCAGAA  
 CCTGGAAGGATTCTCTGTGGCTGACAAGATCAAGTTCACGGTCAACAGGCAATCCAAGGACTTATC  
 CCAAGCCTGAAACCAAAATTCTCACTACAGGACATGAAGCTGGGAAAACCAACAGACCAAGGAGACTGC  
 AACAGGACACCTGGCAGCCAGATGAGGATGATGCCAACAGACTGGGGGAGAAGGTGATCCTCCGAGAGCA  
 GGTGAAGGAGCTCTTCAATGAGAAATACGGTGAAGGCTGGGACTGAATCGGCCTGTGCTGGTCCCTTAC  
 AAATGATCCGGGACAGCCAGATGCCGTGGAGGTGAAGGCCTCCAGATGACATCCCCTTCCGGAACC  
 CCAACACCTATGACATCCATCGGCTGGAGAAGATCCTGAAGGCCAGGAGCATGTGCGGATGGTCAATCAT  
 CAACAGCTCAACCTTTTGGGGACGTCTGCAACAATGCCAAGGTGCCAGCCAAAGACAACATCCCAAG  
 CGCAAGAGAAAGAGGGTCTCTGAAGGCAACTCAGTCTCCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTA  
 ACCCAGAGTCTGTGGCATCCACCAACCAGATCTCCCTCGTGCAGTGGCCAGTGTACATGGTGGACTATTC  
 CGGACTAAACGTGCAGCTTCCGGCCCCCTTGATTAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR224989 representing NM\_001081469  
 Red=Cloning site Green=Tags(s)

MALLGKHCDIPTNGCGSERWNSTFARKDELINSLVSALDSMCSALSKLNTEVACVAVHNESVFMGTEKG  
 RVFLNTRKELQSDFLRFRCRGLWNDPEAGHPKKVQRCCEGGRSLPRSSLEQCSDVYLLQKMVEEVFDVLY  
 SEAMGRATVVPLPYERLLREPLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPPDDGGQD  
 TKALVEMNGISLLPKGSRDCGLHGQASKVAPQDLTPTATPSSMANFLYSTSMPNHTIRELKQEVPTCPLT  
 PSDLGMGWPVPEPHVPSTQDFSDCCGQTPAGPAGPLIQNVHASKRILFSIVHDKSEKWDPFIKEMEDINT  
 LRECVQILFNSRYAEALGLDHMVPVYPYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLKRILEERHSIH  
 FIIKRMFDERIFTGNKFTKDPMKLEPASPPEDTSTEVCRDSDL LAGTAWSDMSSVSED CGPGTSGEIAM  
 LRPIKIEPEELDI IQVTVSDPSPTSEEMTDSLPGHLPSEDSGYGMEMPADKGPSEEPWSEERPAEESPGD  
 VIRPLRKQVEMLFNTKYAKAIGTSEPVKVPYSKFLMHPEELFVLGLPEGISLRPNCFGI AKLRKILEAS  
 NSIQFVIKRPELLTDGVKEPVLDTQERDSWDRLVDETPKRQGLQENYNTRL SRIDIANTLREQVQDLFNK  
 KYGEALGIKYPVQVPYKRKISNPGSVII EGLPPGIPFRKPFCTFGSQNLERILSVADKIKFTVTRPFQGLI  
 PKPETKILTTGHEAGKTRPRRLQQDTWQPEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVLPY  
 KLIRSDPAVEVKGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPFQGDVNCNNAKVPKADNIPK  
 RKRKRIVSEGNVS SSSSSSSSSSSSSNPESVASTNQI SLVQWPVYMVDY SGLNVQLPGPLDY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

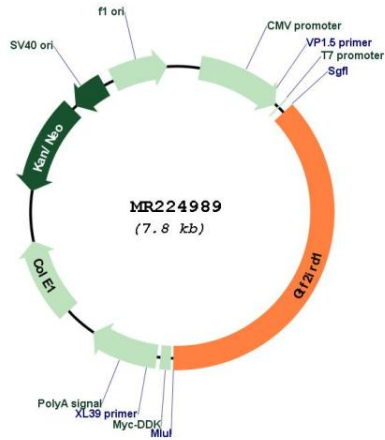


**ACCN:** NM\_001081469

**ORF Size:** 2907 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_001081469.2</a> , <a href="#">NP_001074938.1</a>
<b>RefSeq Size:</b>	3304 bp
<b>RefSeq ORF:</b>	2910 bp
<b>Locus ID:</b>	57080
<b>UniProt ID:</b>	<a href="#">Q9JI57</a>
<b>Cytogenetics:</b>	5 74.55 cM
<b>MW:</b>	108.8 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 MR224989