

## Product datasheet for **MR224991**

### **Gtf2ird1 (NM\_001081470) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Gtf2ird1 (NM_001081470) 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:

>MR224991 representing NM\_001081470  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGCATCGCC**

ATGGCCTTGTGCGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT  
TCGCCCGCAAGGACGAACATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCCTCTCCAA  
GCTGAACACGGAGGTGGCCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA  
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CTCTCTGGAGCAGTGTGCGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT  
AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGAGCCGGGCTAC  
TGGCGGTGCAGGGGCTGCCGAGGGCCTGGCCTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT  
GGCCATATTGGAGCACAGTCACCGAATTCGGTTTAACTCAGGAGGCTCCTGATGACGGTGGCCAGGAC  
ACGAAGCGCTGGTGGAGATGAACGGTATCTCTGCTACCCAAGGGGTCCCGAGACTGTGGTCTGCATG  
GCCAGGCTCCAAGTCTCTCCCAAGACCTGACCCCCACCGCCACCCCATCCTCTATGGCCAACCTTCT  
GTACAGCACTTCGATGCCCAACCACAGATCCGGGAACCTCAAGCAGGAGGTGCCAACCTGCCCGTTGACC  
CCCAGCGACCTGGGCATGGGCTGGCCGCTGCTGAGCCCCATGTCCCGAGCAGGCAAGATTTCTCTGATT  
GCTGTGGACAGACGCCTGCAGGGCCTGCTGGCCCTCTCATCCAGAATGTCCATGCTTCCAAGCGCATCCT  
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TGAAGGATCTCTCTCCGGAGACCAACTGCTTTGGGATTGCAAAGCTGCGGAAGATTCTGGAAGCGAGC  
AACAGCATCCAGTTTGTTCATCAAGAGACCCGAACCTGCTCACTGACGGTGTCAAAGAACCTGTTCTGGACA  
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GAGGGTCTCTGAAGGCAACTCAGTCTCTCTTCTCTCTCTCTCATCTTCTGCTCTTCAACCCAGAGTCT  
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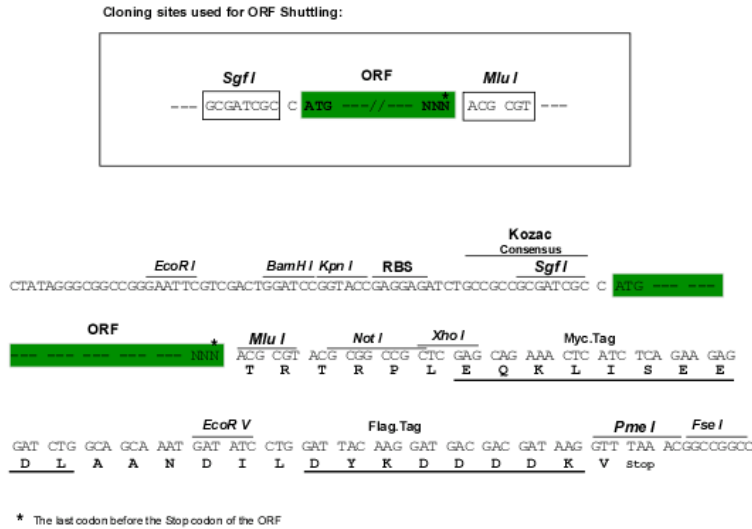
**Protein Sequence:** >MR224991 representing NM\_001081470  
 Red=Cloning site Green=Tags(s)

MALLGKHCDIPTNGCGSERWNSTFARKDELINSLVSALDSMCSALSKLNTEVACVAVHNESVFMGTEKG  
 RVFLNTRKELQSDFLRFCRGLWNDPEAGHPKKVQRCEGGGRSLPRSSLEQCSDVYLLQKMVEEVDVLY  
 SEAMGRATVVPLPYERLLREPLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPPDDGGQD  
 TKALVEMNGISLLPKGSRDCGLHGQASKVAPQDLTPTATPSSMANFLYSTSMPNHTIRELKQEVPTCPLT  
 PSDLGMGWPVPEPHVSTQDFSDCCGQTPAGPAGPLIQNVHASKRILFSIVHDKSEKWDPFIKEMEDINT  
 LRECVQILFNSRYAEALGLDHMVVPYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLKRILEERHSIH  
 FIIKRMFDERIFTGNKFTKDPMKLEPASPPEDTSTEVCRDMSLDLAGTAWSDMSSVSEDCGPGTSGEIAM  
 LRPIKIEPEELDIQVTVSDPSPTSEEMTDSLPGHLPESDSGYGMEMPADKGPSEEPWSEERPAEESPGD  
 VIRPLRKQVEMLFNTKYAKAIGTSEPVKVPYSKFLMHPEELFVLGLPEGISLRPNCFGI AKLRKILEAS  
 NSIQFVIKRPELLTDGVKEPVLDTQERDSWDLVDETPKRQGLQENYNTRL SRIDIANTLREQVQDLFNK  
 KYGEALGIKYPVQVPYKRIKSNPGSVII EGLPPGIPFRK PCTFGSQNLERILSVADKIKFTVTRPFQGLI  
 PKPDEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVLPYKLI RDSPPAVEVKGLPDDIPFRNPNTY  
 DIHRLEKILKAREHVRMVIINQLQPF GDVCNNAKVP AKDNI PKRKRKR VSEGNSVSSSSSSSSSSSNPES  
 VASTNQISLVQWPVYMYDYSGLNVQLPGPLDY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

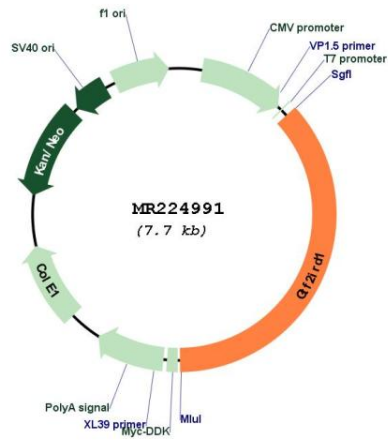


**ACCN:** NM\_001081470

**ORF Size:** 2826 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_001081470.2</a> , <a href="#">NP_001074939.1</a>
<b>RefSeq Size:</b>	3223 bp
<b>RefSeq ORF:</b>	2829 bp
<b>Locus ID:</b>	57080
<b>UniProt ID:</b>	<a href="#">Q9J157</a>
<b>Cytogenetics:</b>	5 74.55 cM
<b>MW:</b>	105.7 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]

Product images:



Circular map for MR224991