

Product datasheet for **MG224972**

Gtf2ird1 (NM_020331) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2ird1 (NM_020331) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gtf2ird1
Synonyms:	1700012P16Rik; BEN; Cream1; ESTM9; Gtf2il; GTF3; MusTRD1; Tg(Alb1-Myc)166.8Sst; WBSCR11; X83320
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224972 representing NM_020331 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGCCTTGCTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT
TCGCCCCGAAGGACGAACCTCATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCGCTCTCCAA
GCTGAACACGGAGGTGGCCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA
AGGGTGTTCGAACTCGGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGGGACCCCTGTGGA
ACGATCCAGAAGCAGGACACCCTAAAAAGGTGCAGCGCTGTGAAGGCGGTGGCCGAGCCTCCCGCGGT
CTCTCTGGAGCAGTGTGCTCGGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT
AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGAGCCGGGGCTAC
TGGCGGTGCAGGGGCTGCCGAGGGCCTGGCCTTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT
GGCCATATTGGAGCACAGTCACCGAATTCGGTTAAGCTCAGGAGGCTCCTGATGACGGTGGGCAGGAC
ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTGCTACCCAAGGGGTCCCGAGACTGTGGTCTGCATG
GCCAGGCTCCAAGGTGCTCCCAAGACCTGACCCCAACCGCCACCCCATCTCTATGGCAACTTCTCT
GTACAGCACTTCGATGCCAACCACAGATCCGGGAACCAAGCAGGAGGTGCCAACCTGCCCGTTGACC
CCCAGCGACCTGGGCATGGGCTGGCCGTGCTGAGCCCCATGTCCCAGCACCAAGATTTCTCTGATT
GCTGTGGACAGACGCCTGCAGGGCCTGCTGGCCCTCTCATCCAGAATGTCCATGCTTCCAAGCGCATCT
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CTGTGCCCTATAGGAAGATTGCCTGTGACCCCGAGGCTGTGAAAATTGTGGGTATTCCAGACAAGATCCC
CTTCAAGCGACCTGTACTTACGGAGTGCCGAAGCTGAAGAGGATTCTGGAGGAGCGACACAGCATTAC
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TGGAGCCAGCTAGCCACCAGAAGACACTTCCACAGAAGTCTGTAGGGACAGCATGCTGGACCTGGCTGG



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GACTGCTTGGTCAGACATGAGCAGCGTCTCTGAAGACTGTGGGCCAGGAACCTCAGGAGAGATAGCAATG
 TTGAGGCATCAAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA
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 AACAGGACACCTGGCAGCCAGATGAGGATGATGCCAACAGACTGGGGAGAAGGTGATCCTCCGAGAGCA
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 TTCTTCTCTCTTCTCTCTCTCTAACCAGAGTCTGTGGCATCCACCAACCAGATCTCCCTCGTG
 CAGTGGCCAGTGTACATGGTGGACTATTCGGACTAACCGTGCAGCTTCCGGGCCCTTGATTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224972 representing NM_020331
 Red=Cloning site Green=Tags(s)

MALLGKHCDIPTNGCGSERWNSTFARKDELINSLVSALDSMCSALSKLNTEVACVAVHNESVFMGTEKG
 RVFLNTRKELQSDFLRFRCRGLWNDPEAGHPKKVQRCEGGGRSLPRSSLEQCSVDVYLLQKMVEEVDVLY
 SEAMGRATVVPLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPPDDGGQD
 TKALVEMNGISLLPKGSRDCGLHGQASKVAPQDLTPTATPSSMANFLYSTSMPNHTIRELKQEVPTCPLT
 PSDLGMGWVPEPHVPSTQDFSDCCGQTPAGPAGPLIQNVHASKRILFSIVHDKSEKWDPFIKEMEDINT
 LRECVQILFNSRYAEALGLDHMPVVPYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLKRILEERHSIH
 FIIKRMFDERIFTGNKFTKDPMKLEPASPPEDTSTEVCRDSMLDLAGTAWSDMSSVSEDCGPGTSGEIAM
 LRPKIEPEELDIIQVTVSDPSPTSEEMTDSLPGHLPSEDSGYGMEMPADKGPSEEPWSEERPAEESPGD
 VIRPLRKQVEMLFNTKYAKAIGTSEPVKVPYSKFLMHPEELFVLGLPEGISLRRPNCFGIAKLRKILEAS
 NSIQFVIKRPPELLTDGVKEPVLDTQERDSWDRLVDETPKRQGLQENYNTRL SRIDIANTLREQVQDLFNK
 KYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGIPFRKPTFGSQNLERILSVADKIKFTVTRPFQGLI
 PKPETKILTTGHEAGKTRPRRLQDDTWQPEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVLPY
 KLIRDSPDAVEVKGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPF AEVCNDPKVPEEDSNK
 LGKKVILREQVKELFNEKYGEALGLNRPVLPYKILIRDSPDAVEVKGLPDDIPFRNPNTYDIHRLEKILK
 AREHVRMVIINQLQPF GDVCNNAKVPKDNIPKRRKRKRVSEGNVSSSSSSSSSSSNPESVASTNQISLV
 QWPVYMDYSGLVNQLPGPLDY

TRTRPLE - GFP Tag - V

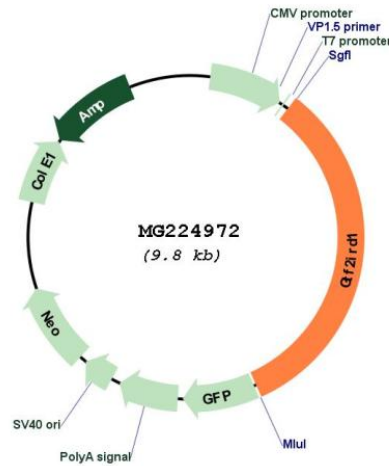
Restriction Sites:

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.

Components:	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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	NM_020331.3 , NP_065064.2
RefSeq Size:	3613 bp
RefSeq ORF:	3219 bp
Locus ID:	57080
UniProt ID:	Q9JI57
Cytogenetics:	5 74.55 cM
Gene Summary:	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]