

## Product datasheet for MR211520

### Gtf2ird1 (NM\_001081465) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2ird1 (NM_001081465) 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)
ORF Nucleotide Sequence:	>MR211520 representing NM_001081465 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCCTTGCTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT  
TCGCCCCGAAGGACGAACTCATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCGCTCTCCAA  
GCTGAACACGGAGGTGGCCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA  
AGGGTGTTCGAACTCGGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGGGACCCCTGTGGA  
ACGATCCAGAAGCAGGACACCCTAAAAAGGTGCAGCGCTGTGAAGGCGGTGGCCGAGCCTCCCGCGGT  
CTCTCTGGAGCAGTGTGCTCGGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT  
AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGAGCCGGGGCTAC  
TGGCGGTGCAGGGGCTGCCGAGGGCCTGGCCTTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT  
GGCCATATTGGAGCACAGTCACCGAATTCGGTTAAGCTCAGGAGGCTCCTGATGACGGTGGGCAGGAC  
ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTGCTACCCAAGGGGTCCCGAGACTGTGGTCTGCATG  
GCCAGGCTCCAAGGTCGCTCCCAAGACCTGACCCCAACCGCCACCCCATCCTCTATGGCAACTTCT  
GTACAGCACTTCGATGCCAACCACAGATCCGGGAACCAAGCAGGAGGTGCCAACCTGCCCGTTGACC  
CCCAGCGACCTGGGCATGGGCTGGCCGTGCCTGAGCCCCATGTCCCAGCACCAAGATTTCTCTGATT  
GCTGTGGACAGACGCCTGCAGGGCCTGTGGCCCTCTCATCCAGAATGTCATGCTTCCAAGCGCATCCT  
CTGCGGGAGTGGCTGCAGATTCTGTTTAAACAGCAGATACGCGGAAGCCCTGGGCCTGGACCACATGGTCC  
CTGTGCCCTATAGGAAGATTGCCTGTGACCCCGAGGCTGTGAAAATTGTGGGTATTCCAGACAAGATCCC  
CTTCAAGCGACCCTGTACTTACGGAGTGCCGAAGCTGAAGAGGATTCTGGAGGAGCGACACAGCATTAC  
TTCATTATCAAGAGAATGTTGATGAGCGCATTTTACAGGGAACAAGTTTACCAAGACCCCATGAAGC  
TGGAGCCAGCTAGCCACCAGAAGACACTTCCACAGAAGTCTGTAGGGACAGCATGCTGGACCTGGCTGG



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GACTGCTTGGTCAGACATGAGCAGCGTCTCTGAAGACTGTGGGCCAGGAACCTCAGGAGAGATAGCAATG  
 TTGAGGCATCAAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA  
 CCTCTGAGGAGATGACTGACTCGTTACCTGGGCATCTGCCTCAGAGGATTCCGGTTATGGGATGAAAT  
 GCCGGCTGACAAAGGCCCAAGTGAAGAACCCTGGTCTGAGAGAGAGGCCGCGCAAGAGAGCCCTGGTGC  
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 CAGAGCCGGTCAAGTGCCCTACTCCAAGTTCCTGATGCACCCGAGGAGCTGTTCTGACTGGGACTGCC  
 TGAAGGCATCTCTCTCGGAGACCAACTGCTTTGGGATTGCAAAGCTGCGGAAGATTCTGGAAGCGAGC  
 AACAGCATCCAGTTTGTATCAAGAGACCCGAAGTCTCACTGACGGTGTCAAAGAACCCTGTTCTGGACA  
 CTAAGAGAGGGACTCCTGGGACCGTCTTGTGGACGAGACCCGAAGAGACAGGGCCTTCAAGAAAATTA  
 CAACACCAGACTCTCGCGGATCGACATCGCAACACGCTTAGGGAACAAGTCCAAGACTGTTTAAACAAG  
 AAATACGGTGAAGCTCTGGGCATCAAAATACCCAGTGCAGGTGCCCTACAAGAGAAATCAAAAGCAACCCAG  
 GCTCGGTAAATCATTGAAGGCCTACCCCGGGATCCCATTCCGCAAAACCTGCACCTTTGGCTCCAGAA  
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 GGTGATCCTCCGAGAGCAGGTGAAGGAGCTTCAATGAGAAATACGGTGAAGGCCCTGGGACTGAATCGG  
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 TTCATCTTCTGCTCTAACCAGAGTCTGTGGCATCCACCAACCAGATCTCCCTGCTGCAGTGGCCAGT  
 GTACATGGTGGACTATTCCGGACTAAACGTGCAGCTTCCGGGCCCTTGATTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR211520 representing NM\_001081465

Red=Cloning site Green=Tags(s)

MALLGKHCDIPTNGCGSERWNSTFARKDELINSLVSLDSMCSALSKLNTEVACVAVHNESVFMGTEKG  
 RVFLNTRKELQSDFLRFRCRGLWNDPEAGHPKKVQRCEGGGRSLPRSSLEQCSDVYLLQKMVEEVDVLY  
 SEAMGRATVVPLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPPDDGGQD  
 TKALVEMNGISLLPKGSRDCGLHGQASKVAPQDLTPTATPSSMANFLYSTSMPNHTIRELKQEVPTCPLT  
 PSDLGMGWVPEPHVPSTQDFSDCCGQTPAGPAGPLIQNVHASKRILFSIVHDKSEKWDPFIKEMEDINT  
 LRECVQILFNSRYAEALGLDHMPVVPYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLKRILEERHSIH  
 FIIKRMFDERIFTGNKFTKDPMKLEPASPPEDTSTEVCRDSMLDLAGTAWSDMSSVSEDCGPGTSGEIAM  
 LRPIKIEPEELDIIQVTVSDPSPTSEEMTDSLPGHLPSEDSGYGMEMPADKGPSEEPWSEERPAEESPGD  
 VIRPLRKQVEMLFNTKYAKAIGTSEPVKVPYSKFLMHPEELFVLGLPEGISLRRPNCFGIAKLRKILEAS  
 NSIQFVIKRPPELLTDGVKEPVLDTQERDSWDRLVDETPKRQGLQENYNTRL SRIDIANTLREQVQDLFNK  
 KYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGIPFRKPTFGSQNLERILSVADKIKFTVTRPFQGLI  
 PKPDEDDANRLGEKIVLREQVKELFNEKYGEALGLNRPVLPYKLIKIRDSPPDAVEVKGLPDDIPFRNPNTY  
 DIHRLEKILKAREHVRMVIINQLQPF AEVCNDPKVPEEDDSNKLKGVILREQVKELFNEKYGEALGLNR  
 PVLVPYKLIKIRDSPPDAVEVKGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPF GDVCNNAKVPA  
 KDNIPKRKRKRKRVSEGNVSSSSSSSSSSSNPESVASTNQISLVQWPVYMYVDYSGLNVQLPGPLDY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9041\\_c11.zip](https://cdn.origene.com/chromatograms/mm9041_c11.zip)

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001081465

**ORF Size:** 3135 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:**
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\\_001081465.1](#), [NP\\_001074934.1](#)

**RefSeq Size:** 3480 bp

**RefSeq ORF:** 3138 bp

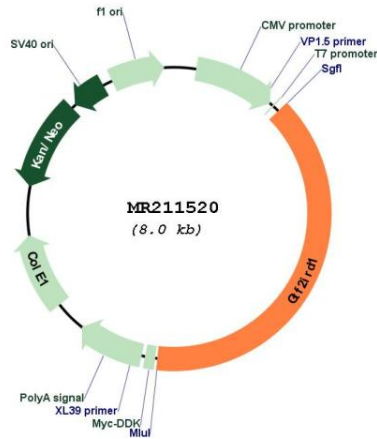
**Locus ID:** 57080

**Cytogenetics:** 5 74.55 cM

**MW:** 117.6 kDa

**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]

**Product images:**



Circular map for MR211520