

Product datasheet for MR231517

Gtf2ird1 (NM_001081464) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2ird1 (NM_001081464) 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:	>MR231517 representing NM_001081464 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTTGCTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT
TCGCCCCGAAGGACGAACTCATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCGCTCTCCAA
GCTGAACACGGAGGTGGCCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA
AGGGTGTTCGAACTCGGAAGGAGCTACAGTCAGACTTCTCAGGTTCTGCCGGGACCCCTGTGGA
ACGATCCAGAAGCAGGACACCCTAAAAAGGTGCAGCGCTGTGAAGGCGGTGGCCGAGCCTCCCGGGTC
CTCTCTGGAGCAGTGTGCTCGGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT
AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGAGCCGGGGCTAC
TGGCGGTGCAGGGGCTGCCGAGGGCCTGGCCTTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT
GGCCATATTGGAGCACAGTCACCGAATTCGGTTAAGCTCAGGAGGCTCCTGATGACGGTGGGCAGGAC
ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTGCTACCCAAGGGGTCCCGAGACTGTGGTCTGCATG
GCCAGGCTCCAAGGTCGCTCCCAAGACCTGACCCCAACCGCCACCCCATCCTCTATGGCAACTTCTCT
GTACAGCACTTCGATGCCAACCACAGATCCGGGAACCAAGCAGGAGGTGCCAACCTGCCCGTTGACC
CCCAGCGACCTGGGCATGGGCTGGCCGTGCTGAGCCCCATGTCCCAGCACCCAAGATTTCTCTGATT
GCTGTGGACAGACGCCTGCAGGGCCTGCTGGCCCTCATCCAGAATGTCCATGCTTCCAAGCGCATCCT
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TTCATTATCAAGAGAATGTTTCGATGAGCGCATTTTACAGGGAACAAGTTTACCAAGACCCCATGAAGC
TGGAGCCAGCTAGCCACCAGAAGACACTTCCACAGAAGTCTGTAGGGACAGCATGCTGGACCTGGCTGG



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GACTGCTTGGTCAGACATGAGCAGCGTCTCTGAAGACTGTGGGCCAGGAACCTCAGGAGAGATAGCAATG
 TTGAGGCATCAAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA
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 GCTCGGTAAATCATTGAAGGCCTACCCCGGGATCCCATTCCGCAAAACCTGCACCTTTGGCTCCCAGAA
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 AACCTTTGCGGAAGTCTGCAATGACCCCAAGGTGCCAGAGGAGGATGACTCTAACAAAGCTCGGGAAGAA
 GGTGATCCTCCGAGAGCAGGTGAAGGAGCTTCAATGAGAAATACGGTGAAGGCCCTGGGACTGAATCGG
 CCTGTGCTGGTCCCTTACAAACTGATCCGGGACAGCCAGATGCCGTGGAGGTGAAGGGCCTCCCAGATG
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 TTCATCTTCTGCTCTAACCAGAGTCTGTGGCATCCACCAACCAGATCTCCCTGCTGCAGTGGCCAGT
 GTACATGGTGGACTATTCCGGACTAAACGTGCAGCTTCCGGGCCCTTGATTAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR231517 representing NM_001081464

Red=Cloning site Green=Tags(s)

MALLGKHCDIPTNGCGSERWNSTFARKDELINSLVSLDSMCSALSKLNTEVACVAVHNESVFMGTEKG
 RVFLNTRKELQSDFLRFRCRGLWNDPEAGHPKKVQRCEGGGRSLPRSSLEQCSVDVYLLQKMVEEVDVLY
 SEAMGRATVVPLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPPDDGGQD
 TKALVEMNGISLLPKGSRDCGLHGQASKVAPQDLTPTATPSSMANFLYSTSMPNHTIRELKQEVPTCPLT
 PSDLGMGWVPEPHVPSTQDFSDCCGQTPAGPAGPLIQNVHASKRILFSIVHDKSEKWDPFIKEMEDINT
 LRECVQILFNSRYAEALGLDHMPVVPYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLKRILEERHSIH
 FIIKRMFDERIFTGNKFTKDPMKLEPASPPEDTSTEVCRDSMLDLAGTAWSDMSSVSEDCGPGTSGEIAM
 LRPKIEPEELDIIQVTVSDPSPTSEEMTDSLPGHLPESDSGYMEMPADKGPSEEPWSEERPAEESPGD
 VIRPLRKQVEMLFNTKYAKAIGTSEPVKVPYSKFLMHPEELFVLGLPEGISLRRPNCFGIAKLRKILEAS
 NSIQFVIKRPPELLTDGVKEPVLDTQERDSWDRLVDETPKRQGLQENYNTRL SRIDIANTLREQVQDLFNK
 KYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGIPFRKPTFGSQNLERILSVADKIKFTVTRPFQGLI
 PKPDEDDANRLGEKIVLREQVKELFNEKYGEALGLNRPVLPYKLIKIRDSPPDAVEVKGLPDDIPFRNPNTY
 DIHRLEKILKAREHVRMVIINQLQPF AEVCNDPKVPEEDDSNKLKGVILREQVKELFNEKYGEALGLNR
 PVLVPYKLIKIRDSPPDAVEVKGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPFQVDCNNAKVPA
 KDNIPKRRKRKRVSEGNVSSSSSSSSSSSNPESVASTNQISLVQWPVYMYDYSGLNVQLPGPLDY

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001081464

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_001081464.2](#), [NP_001074933.1](#)

RefSeq Size: 3527 bp

RefSeq ORF: 3138 bp

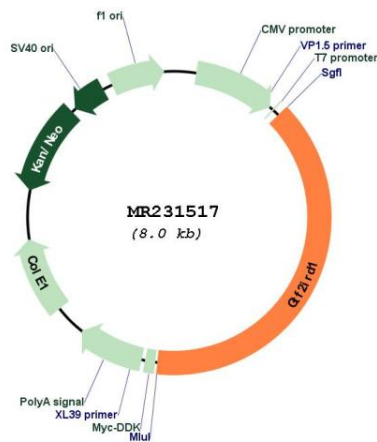
Locus ID: 57080

Cytogenetics: 5 74.55 cM

MW: 117.1 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 MR231517