

Product datasheet for MR224985

Gtf2ird1 (NM_001081467) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Gtf2ird1 (NM_001081467) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Gtf2ird1
Synonyms: 1700012P16Rik; BEN; Cream1; ESTM9; Gtf2il; GTF3; MusTRD1; Tg(Alb1-Myc)166.8Sst; WBSCR11; X83320
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR224985 representing NM_001081467
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGCCTTGTGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACCTCCACCT
 TCGCCCGCAAGGACGAACATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCGCTCTCCAA
 GCTGAACACGGAGGTGGCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA
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 CTCTCTGGAGCAGTGTGCGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTGATGTTCTTTAT
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 TGGCGGTGCAGGGGCTGCCGAGGGCCTGGCCTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT
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TTGAGGCCTATCAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA
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 TAATTCTGTGTGGCTTTGCCCTTCTCGGGCAGGGCCATCCACAGTCCAGGAACTGGGAGGCACTGG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGAT AAGTTTAA

Protein Sequence: >MR224985 representing NM_001081467
 Red=Cloning site Green=Tags(s)

MALLGKHCDIPTNGCGSERWNSTFARKDELINSLVSALDSMCSALSKLNTEVACVAVHNESVFMGTEKG
 RVFLNTRKELQSDFLRFRCRGLWNDPEAGHPKKVQRCEGGGRSLPRSSLEQCSDVYLLQKMVEEVFDVLY
 SEAMGRATVVPLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPPDDGGQD
 TKALVEMNGISLLPKGSRDCGLHGQASKVAPQDLTPTATPSSMANFLYSTSMPNHTIRELKQEVPTCPLT
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 LRECVQILFNSRYAEALGLDHMVPVYRKAICDPEAVEIVGIPDKIPFKRPCTYGVPKLRILEERHSIH
 FIIKRMFDERIFTGNKFTKPMKLEPASPPEDTSTEVCRDSDLAGTAWSDMSSVSEDCGPGTSGEIAM
 LRPIKIEPEELDIIQVTVSDPSPTSEEMTDSLPGHLPSEDSGYMEMPADKGPSEEPWSEERPAEESPGD
 VIRPLRKQVEMLFNTKYAKAIGTSEPVKVPYSKFLMHPEELFVLGLPEGISLRRPNCFGI AKLRKILEAS
 NSIQFVIKRPELLTDGVKEPVLDTQERDSDRLVDETPKRQGLQENYNTRL SRIDIANTLREQVQDLFNK
 KYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGIPFRKPTFGSQNLERILSVADKIKFTVTRPFQGLI
 PKPETKILTTGHEAGKTRPRRLQQDTWQPDEDDANRLGEKIVILREQVKELFNEKYGEALGLNRPVLPY
 KLIRSDPAVEVKGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPFQDVCNNAKVPKADNIPK
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 ALRGTQPTTEGQAHPLVLPTR

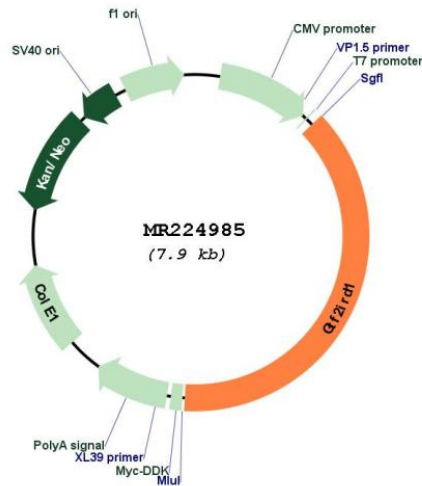
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001081467

ORF Size: 3003 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:	<u>NM_001081467.2</u> , <u>NP_001074936.1</u>
RefSeq Size:	3403 bp
RefSeq ORF:	3006 bp
Locus ID:	57080
UniProt ID:	<u>Q9J157</u>
Cytogenetics:	5 74.55 cM
MW:	112 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]