

## Product datasheet for MR224973

### Gtf2ird1 (NM\_001081462) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gtf2ird1 (NM\_001081462) 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:** >MR224973 representing NM\_001081462  
Red=Cloning site Blue=ORF Green=Tags(s)

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TTGAGGCCTATCAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA  
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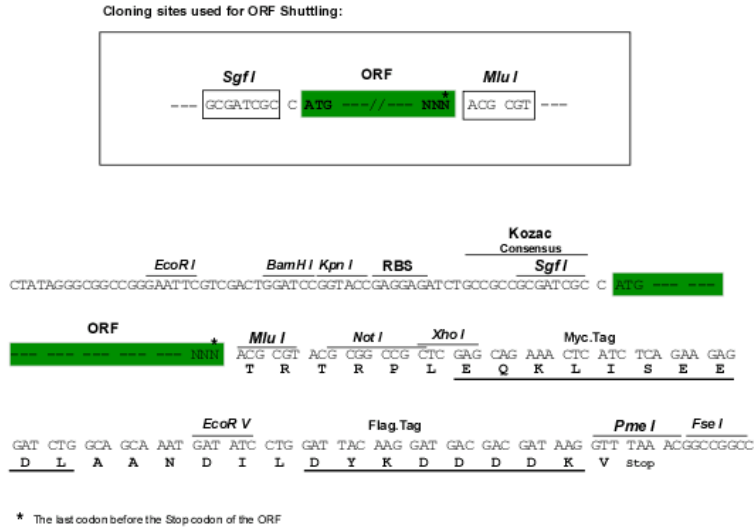
**Protein Sequence:**

>MR224973 representing NM\_001081462  
 Red=Cloning site Green=Tags(s)

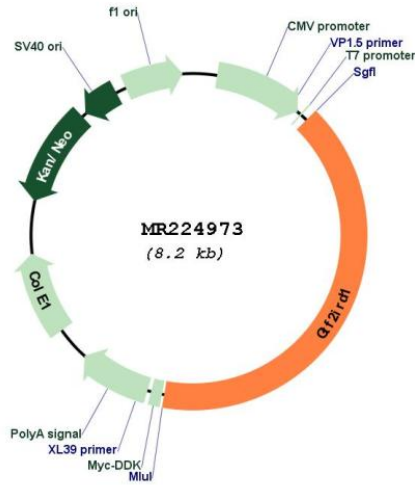
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 RVFLNTRKELQSDFLRFRCRGLWNDPEAGHPKKVQRCEGGGRSLPRSSLEQCSVDVYLLQKMVEEVFDVLY  
 SEAMGRATVVPLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRPPDDGGQD  
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 LGKKVILREQVKELFNEKYGEALGLNRPVLPYKLIKIRDSPDAVEVKGLPDDIPFRNPNTYDIHRLEKILK  
 AREHVRMVIINQLQPFQDVCNNAKVPKDNIPKRKRKRVSEGNVSSSSSSSSSSSNPESVASTNQISLV  
 VKSRGSELHPNSVWPLPLPRAGPSTAPGTGRHWALRGTQPTTEGQAHPLVLPTR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI  
 Cloning Scheme:



Plasmid Map:



ACCN: NM\_001081462

ORF Size: 3312 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.

<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>	<u>NM_001081462.2, NP_001074931.1</u>
<b>RefSeq Size:</b>	3712 bp
<b>RefSeq ORF:</b>	3315 bp
<b>Locus ID:</b>	57080
<b>UniProt ID:</b>	<u>Q9JI57</u>
<b>Cytogenetics:</b>	5 74.55 cM
<b>MW:</b>	123.9 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]