OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MG211520

Gtf2ird1 (NM_001081465) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gtf2ird1 (NM_001081465) 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:

>MG211520 representing NM_001081465
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTTGCTGGGGAAGCACTGTGACATCCCCACCAACGGCTGTGGGTCTGAGCGCTGGAACTCCACCT
TCGCCCGCAAGGACGAACTCATCAACAGTCTGGTGTCCGCCTTAGACTCCATGTGCTCGGCGCTCTCCAA
GCTGAACACGGAGGTGGCCTGCGTGGCGGTACACAATGAGAGCGTCTTCGTGATGGGCACCGAGAAGGGA
AGGGTGTTTCTGAACACTCGGAAGGAGCTACAGTCAGACTTCCTCAGGTTCTGCCGGGGACCCCTGTGGA
ACGATCCAGAAGCAGGACACCCTAAAAAGGTGCAGCGCTGTGAAGGCGGTGGCCGGAGCCTCCCGCGGTC
CTCTCTGGAGCAGTGCTCGGATGTGTACCTGCTGCAGAAGATGGTAGAGGAAGTGTTTGATGTTCTTTAT
AGTGAGGCTATGGGCAGGGCCACCGTGGTACCTTTGCCCTATGAGAGGCTGCTCAGGGAGCCGGGGCTAC
TGGCGGTGCAGGGGCTGCCCGAGGGCCTGGCCTTCCGGAGGCCAGCAGAGTATGACCCCAAGGCACTCAT
GGCCATATTGGAGCACAGTCACCGAATTCGGTTTAAGCTCAGGAGGCCTCCTGATGACGGTGGGCAGGAC
ACGAAGGCGCTGGTGGAGATGAACGGTATCTCTCTGCTACCCAAGGGGTCCCGAGACTGTGGTCTGCATG
GCCAGGCCTCCAAGGTCGCTCCCCAAGACCTGACCCCCACCGCCACCCCATCCTCTATGGCCAACTTCCT
GTACAGCACTTCGATGCCCAACCACACGATCCGGGAACTCAAGCAGGAGGTGCCAACCTGCCCGTTGACC
CCCAGCGACCTGGGCATGGGCTGGCCCGTGCCTGAGCCCCATGTCCCCAGCACCCAAGATTTCTCTGATT
GCTGTGGACAGACGCCTGCAGGGCCTGCTGGGCCTCTCATCCAGAATGTCCATGCTTCCAAGCGCATCCT
CTTCTCCATCGTCCATGACAAGTCAGAGAAGTGGGATCCCTTCATCAAGGAAATGGAGGACATCAATACC
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GACTGCTTGGTCAGACATGAGCAGCGTCTCTGAAGACTGTGGGCCAGGAACCTCAGGAGAGATAGCAATG
TTGAGGCCTATCAAAATCGAGCCAGAGGAGCTGGACATTATTCAGGTTACGGTCTCAGATCCTTCACCTA
CCTCTGAGGAGATGACTGACTCGTTACCTGGGCATCTGCCCTCAGAGGATTCCGGTTATGGGATGGAAAT
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AACCCTTTGCGGAAGTCTGCAATGACCCCAAGGTGCCAGAGGAGGATGACTCTAACAAGCTCGGGAAGAA
GGTGATCCTCCGAGAGCAGGTGAAGGAGCTCTTCAATGAGAAATACGGTGAGGCCCTGGGACTGAATCGG
CCTGTGCTGGTCCCTTACAAACTGATCCGGGACAGCCCAGATGCCGTGGAGGTGAAGGGCCTCCCAGATG
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CTTCATCTTCGTCCTCTAACCCAGAGTCTGTGGCATCCACCAACCAGATCTCCCTCGTGCAGTGGCCAGT
GTACATGGTGGACTATTCCGGACTAAACGTGCGGCTTCCGGGCCCCCTTGATTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG211520 representing NM_001081465
Red=Cloning site Green=Tags(s)

MALLGKHCDIPTNGCGSERWNSTFARKDELINSLVSALDSMCSALSKLNTEVACVAVHNESVFVMGTEKG
RVFLNTRKELQSDFLRFCRGPLWNDPEAGHPKKVQRCEGGGRSLPRSSLEQCSDVYLLQKMVEEVFDVLY
SEAMGRATVVPLPYERLLREPGLLAVQGLPEGLAFRRPAEYDPKALMAILEHSHRIRFKLRRPPDDGGQD
TKALVEMNGISLLPKGSRDCGLHGQASKVAPQDLTPTATPSSMANFLYSTSMPNHTIRELKQEVPTCPLT
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LRECVQILFNSRYAEALGLDHMVPVPYRKIACDPEAVEIVGIPDKIPFKRPCTYGVPKLKRILEERHSIH
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LRPIKIEPEELDIIQVTVSDPSPTSEEMTDSLPGHLPSEDSGYGMEMPADKGPSEEPWSEERPAEESPGD
VIRPLRKQVEMLFNTKYAKAIGTSEPVKVPYSKFLMHPKELFVLGLPEGISLRRPNCFGIAKLRKILEAS
NSIQFVIKRPELLTDGVKEPVLDTQERDSWDRLVDETPKRQGLQENYNTRLSRIDIANTLREQVQDLFNK
KYGEALGIKYPVQVPYKRIKSNPGSVIIEGLPPGIPFRKPCTFGSQNLERILSVADKIKFTVTRPFQGLI
PKPDEDDANRLGEKVILREQVKELFNEKYGEALGLNRPVLVPYKLIRDSPDAVEVKGLPDDIPFRNPNTY
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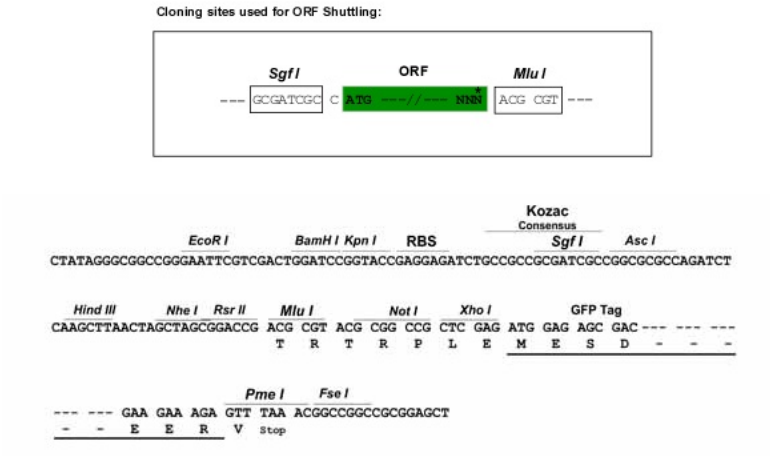
PVLVPYKLIRDSPDAVEVKGLPDDIPFRNPNTYDIHRLEKILKAREHVRMVIINQLQPFGDVCNNAKVPA
KDNIPKRKRKRVSEGNSVSSSSSSSSSSNPESVASTNQISLVQWPVYMVDYSGLNVRLPGPLDY

TRTRPLE - GFP Tag - V

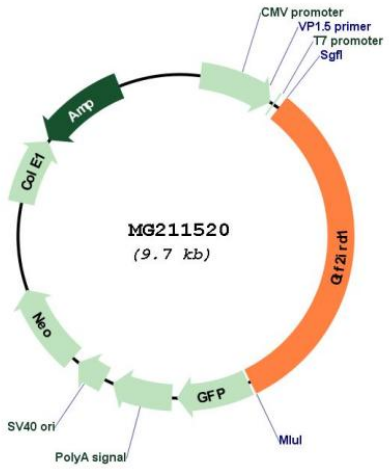
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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
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]