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 RG211131

MTCH1 (NM_014341) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTCH1 (NM_014341) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MTCH1
Synonyms:	CGI-64; PIG60; PSAP; SLC25A49
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG211131 representing NM_014341
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGAGCTTCGGACCCGGAAGTGGCGCCCTGGGCTCGCGGCGGTGCCGCGGGGATGGCGGGAGCCGGAG
CTGGAGCCGGAGCTCGCGGCGGAGCGGCGGCGGGGGTCGAGGCTCGAGCTCGCGATCCACCGCCCGCGCA
CCGCGCACATCCTCGCCACCCTCGGCCTGCGGCTCAGCCCTCGGCCCGCAGGATGGATGGCGGGTCAGGG
GGCCTGGGGTCTGGGGACAACGCCCCGACCACTGAGGCTCTTTTCGTGGCACTGGGCGCGGGCGTGACGG
CGCTCAGCCATCCCCTGCTCTACGTGAAGCTGCTCATCCAGGTGGGTCATGAGCCGATGCCCCCCACCCT
TGGGACCAATGTGCTGGGGAGGAAGGTCCTCTATCTGCCGAGCTTCTTCACCTACGCCAAGTACATCGTG
CAAGTGGATGGTAAGATAGGGCTGTTCCGAGGCCTGAGTCCCCGGCTGATGTCCAACGCCCTCTCTACTG
TGACTCGGGGTAGCATGAAGAAGGTTTTCCCTCCAGATGAGATTGAGCAGGTTTCCAACAAGGATGATAT
GAAGACTTCCCTGAAGAAAGTTGTGAAGGAGACCTCCTACGAGATGATGATGCAGTGTGTGTCCCGCATG
TTGGCCCACCCCCTGCATGTCATCTCAATGCGCTGCATGGTCCAGTTTGTGGGACGGGAGGCCAAGTACA
GTGGTGTGCTGAGCTCCATTGGGAAGATTTTCAAAGAGGAAGGGCTGCTGGGATTCTTCGTTGGATTAAT
CCCTCACCTCCTGGGCGATGTGGTTTTCTTGTGGGGCTGTAACCTGCTGGCCCACTTCATCAATGCCTAC
CTGGTGGATGACAGCTTCAGCCAGGCCCTGGCCATCCGGAGCTATACCAAGTTCGTGATGGGGATTGCAG
TGAGCATGCTGACCTACCCCTTCCTGCTAGTTGGCGACCTCATGGCTGTGAACAACTGCGGGCTGCAAGC
TGGGCTCCCCCCTTACTCCCCAGTGTTCAAATCCTGGATTCACTGCTGGAAGTACCTGAGTGTGCAGGGC
CAGCTCTTCCGAGGCTCCAGCCTGCTTTTCCGCCGGGTGTCATCAGGATCATGCTTTGCCCTGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

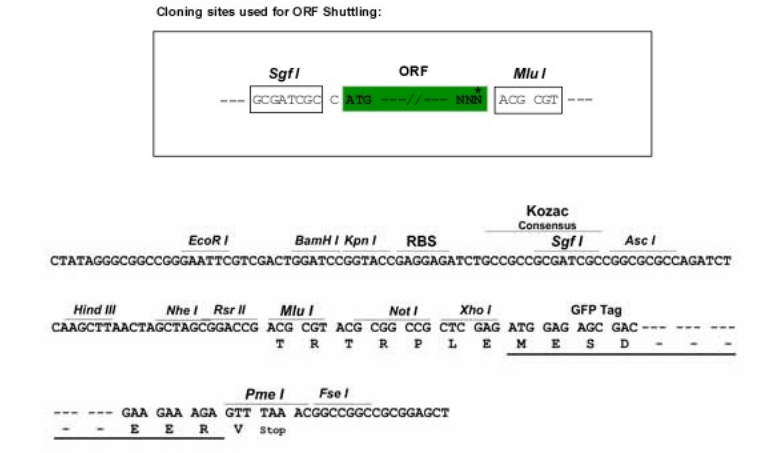
>RG211131 representing NM_014341
Red=Cloning site Green=Tags(s)

MGASDPEVAPWARGGAAGMAGAGAGAGARGGAAAGVEARARDPPPAHRAHPRHPRPAAQPSARRMDGGSG
GLGSGDNAPTTEALFVALGAGVTALSHPLLYVKLLIQVGHEPMPPTLGTNVLGRKVLYLPSFFTYAKYIV
QVDGKIGLFRGLSPRLMSNALSTVTRGSMKKVFPPDEIEQVSNKDDMKTSLKKVVKETSYEMMMQCVSRM
LAHPLHVISMRCMVQFVGREAKYSGVLSSIGKIFKEEGLLGFFVGLIPHLLGDVVFLWGCNLLAHFINAY
LVDDSFSQALAIRSYTKFVMGIAVSMLTYPFLLVGDLMAVNNCGLQAGLPPYSPVFKSWIHCWKYLSVQG
QLFRGSSLLFRRVSSGSCFALE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014341

ORF Size: 1116 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_014341.2

RefSeq Size: 1890 bp

RefSeq ORF: 1119 bp

Locus ID: 23787

UniProt ID: Q9NZJ7

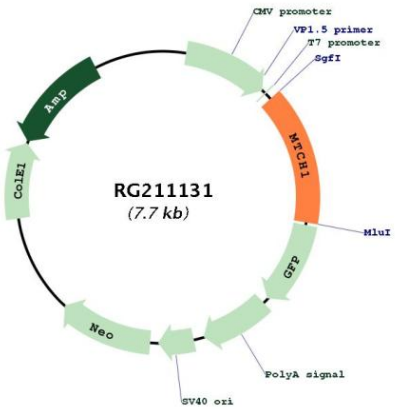
Cytogenetics: 6p21.2

Domains: mito_carr

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of the mitochondrial carrier family. The encoded protein is localized to the mitochondrion inner membrane and induces apoptosis independent of the proapoptotic proteins Bax and Bak. Pseudogenes on chromosomes 6 and 11 have been identified for this gene. Alternatively spliced transcript variants encoding multiple isoforms have been observed. [provided by RefSeq, Oct 2012]

Product images:



Circular map for RG211131