

# Product datasheet for RC220973

# MT (MCAT) (NM\_014507) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

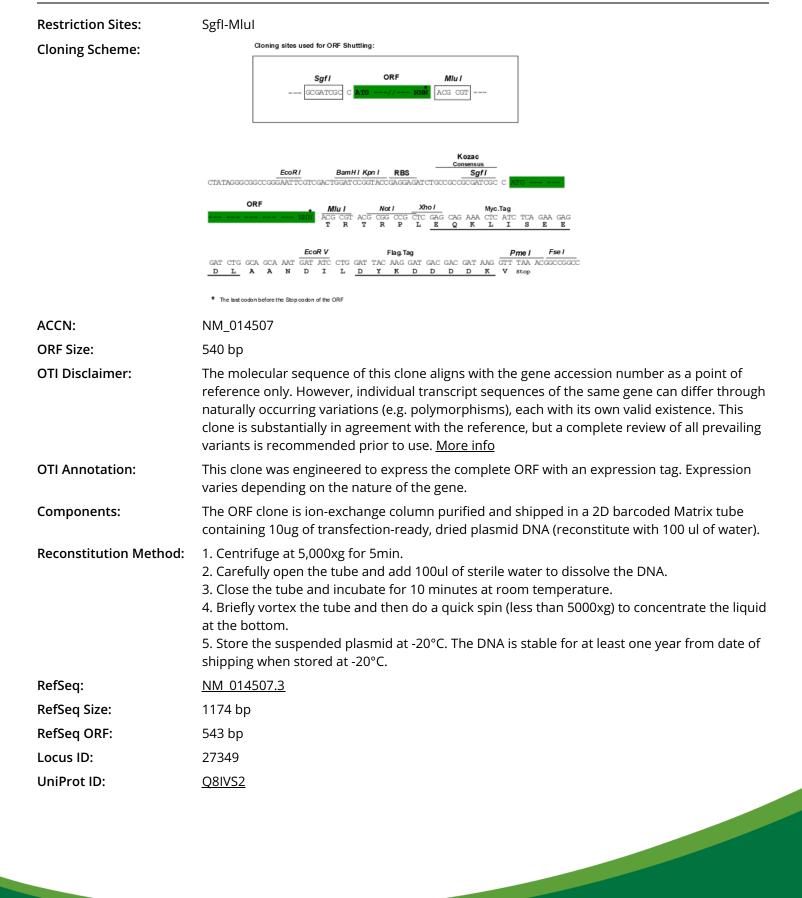
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	MT (MCAT) (NM_014507) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MT
Synonyms:	fabD; FASN2C; MCT; MCT1; MT; NET62
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC220973 representing NM_014507 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAGCGTCCGGGTCGCACGGGTAGCGTGGGTCAGGGGCTTGGGCGCCAGCTACCGCCGCGGCGCCTCGA GCTTCCCGGTGCCTCCGCCGGGCGCCCAGGGTGTAGCGGAGCTGCTGCGAGATGCGACCGGGGCGAGGA GGAGGCGCCCTGGGCGGCGACGGAGCGGCGAATGCCGGGCCAGTGCTCCGTGCTGCTCTTCCCCGGGCCAG GGCAGCCAGGTGGTGGGCATGGGCCGCGGTCTGCTCAACTACCCGCGCGTCCGCGAACTCTACGCCGCCG CCCGCCGCGTGCTGGGCTACGACCTGCTGGAACTGAGCCTGCACGGGCCGCAGGAGACCCTGGACCGCAC CGTGCACTGTCAGCCCGCGATCTTCGTGGCATCGCTGGCGCGCTGTCGAGAAACTACATCACCTGCAGCCC TCGGTGATTGAGAACTGTGTTGCTGCTGCTGGATTCAGTGTGGGAGAGTTTGCAGCCCTAGTGTTTGCCG GAGCCATGGAATTTGCTGAAGGCTCTACGGTTTCCCAGAAGAATTCCTC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	<pre>&gt;RC220973 representing NM_014507 Red=Cloning site Green=Tags(s)</pre>
	MSVRVARVAWVRGLGASYRRGASSFPVPPPGAQGVAELLRDATGAEEEAPWAATERRMPGQCSVLLFPGQ GSQVVGMGRGLLNYPRVRELYAAARRVLGYDLLELSLHGPQETLDRTVHCQPAIFVASLAAVEKLHHLQP SVIENCVAAAGFSVGEFAALVFAGAMEFAEGSTVSPEEFL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6478_b10.zip



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

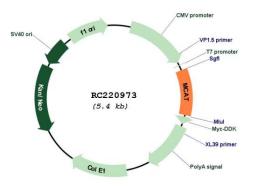
### **GRIGENE** MT (MCAT) (NM\_014507) Human Tagged ORF Clone – RC220973



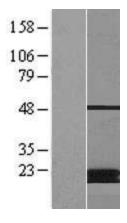
This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	MT (MCAT) (NM_014507) Human Tagged ORF Clone – RC220973
Cytogenetics:	22q13.2
Protein Pathway	Fatty acid biosynthesis, Metabolic pathways
MW:	19.18 kDa
Gene Summary:	The protein encoded by this gene is found exclusively in the mitochondrion, where it catalyzes the transfer of a malonyl group from malonyl-CoA to the mitochondrial acyl carrier protein. The encoded protein may be part of a fatty acid synthase complex that is more like the type II prokaryotic and plastid complexes rather than the type I human cytosolic complex. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Mar 2012]

# **Product images:**



Circular map for RC220973



Western blot validation of overexpression lysate (Cat# [LY415211]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220973 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US