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# Product datasheet for RC220973L3V

## MT (MCAT) (NM_014507) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | MT (MCAT) (NM_014507) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | MT |
| **Synonyms:** | fabD; FASN2C; MCT; MCT1; MT; NET62 |
| **Mammalian Cell Selection:** | Puromycin |
| **Vector:** | pLenti-C-Myc-DDK-P2A-Puro (PS100092) |
| **Tag:** | Myc-DDK |
| **ACCN:** | NM_014507 |
| **ORF Size:** | 540 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC220973). |
| **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. |
| **RefSeq:** | NM_014507.2 |
| **RefSeq Size:** | 1174 bp |
| **RefSeq ORF:** | 543 bp |
| **Locus ID:** | 27349 |
| **UniProt ID:** | Q8IVS2 |
| **Cytogenetics:** | 22q13.2 |
| **Protein Pathways:** | Fatty acid biosynthesis, Metabolic pathways |
| **MW:** | 19.18 kDa |

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**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]