

## Product datasheet for SC112927

### MASA (ENOPH1) (NM\_021204) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MASA (ENOPH1) (NM_021204) Human Untagged Clone
Tag:	Tag Free
Symbol:	MASA
Synonyms:	E1; MASA; MST145; mtnC
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC112927 sequence for NM_021204 edited (data generated by NextGen Sequencing)

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ATGGTCGTGCTTTCGGTCCCCGCCGAAGTCACCGTGATCCTGTTAGATATCGAAGGTACC
ACAACCCCGATTGCTTTTGGTGAAGGACATTTTATTTCTTACATCGAAGAAAATGTTAAA
GAGTATCTGCAGACACATTGGGAAGAAGAGGAGTGCCAGCAGGATGTCAGTCTTTTGAGG
AAACAGGCTGAAGAGGACGCCACCTGGATGGGGCTGTTCTATCCCTGCAGCATCTGGG
AATGGAGTGGATGATCTGCAACAGATGATCCAGGCCGTGGTAGATAATGTGTGCTGGCAG
ATGTCCCTGGATCGAAAGACCACTGCACTCAAACAGCTGCAGGGCCACATGTGGAGGGCG
GCATTACAGCTGGGCGCATGAAAGCAGAGTTCTTTGCAGATGTAGTCCAGCAGTCAGG
AAGTGGAGAGAGGCCGAATGAAGGTGTACATCTATTCCTCAGGGAGTGTGGAGGCACAG
AAACTGTTATTCGGGCATTCTACGGAGGGAGATATTCTTGAGCTTGTGATGGTCACTTT
GATACCAAGATTGGACACAAAGTAGAGAGTGAAAGTTACCGAAAGATTGCAGACAGCATT
GGGTGCTCAACCAACAACATTTTGTCTGACAGATGTTACTCGAGAGGCCAGTGCTGCT
GAGGAAGCAGATGTGCACGTAGCTGTGGTGGTGAGACCAGGCAACGCAGGATTAACAGAT
GATGAGAAGACTTACTACAGCCTCATCATCCTTCAGTGAACATAACCTGCCTTCCTCA
ACCTAG

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Clone variation with respect to NM\_021204.3



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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_021204 unedited  AGTTCAAATTTGTATACGACTCATATAGGGCGGCCGGAATTCGCACGAGGGGTGTGCAG  AAGTGTCTCTCCCCACGCGCGGGCTGCACTTGGTCGCTGGCTCCGAGATCGCGCGG  GGCCGCCGAAGCCAAGACGGTACCGGGGGCCGAGCCGAGCCGGCGCCGCCCTCCGC  CCTCCCCAACAGCAGGCCGAGTCCCGTAGCATCCGGTAGGAAATGGTCGTGCTTTCGGT  CCCCGCCGAAGTACCGTGATCCTGTTAGATATCGAAGGTACCACAACCCCGATTGCTTT  CGTGAAGGACATTTTATTCCTTACATCGAAGAAAATGTTAAAGAGTATCTGCAGACACA  TTGGGAAGAAGAGGAGTGCCAGCAGGATGTCAGTCTTTTGAGGAAACAGGCTGAAGAGGA  CGCCACCTGGATGGGGCTGTTCCATCCCTGCAGCATCTGGAAATGGAGTGGATGATCT  GCAACAGATGATCCAGGCCGTGGTAGATAATGTGTGCTGGCAGATGTCCCTGGATCGAAA  GACCACTGCACTCAAACAGCTGCAGGGCCACATGTGGAGGGCGGCATTACAGCTGGGCG  CATGANAGCAGAGTTCCTTGCAGATGTAGTTCACAGCAGTCANGAAGTGGAGAGAGCCGG  AATGAANGTGTACATCTATTCTCAGGNAGTGNNGANNGCACAGAACTGNNTATTCGGC  ATTTCTACGAGGGAGATATTTCTTGAGCTGTTGATGGTCACTTTGATACCCAGATTGGAC  ACANAGTAGAGAGTGAAGTTACCGAAAGATGCAGACAGCATTGGGTGCTCAACCACCAC  ATTTTGTCTTGACAGATGTTACCTCAAAGGCCAGTGTGCTGAAGAAGCAAATGTGCA  CGTAGCTGTGGTGGTGAACCAGGCACCCGAGATTACAGATGATGAGA</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_021204 unedited  NNNATTTTTTAGCTTGNACCCGCGCCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTT  TGAAGAAAAAGCTTTTATTAATCACAAATGAAATTAACATGACATCGTATTAGAATTA  AACCAGGATAAACTGCTGTTATAAAATTTACATTTCTCACATCCATTCCAGAGGAAAA  TCTTACATATTAGGGCTCATCTTAATGTTATGGACTGATTTTCAGTAAAACTTTTAAATA  GTAAATAGCAATTAACGTATTCTCAAACGTGCTAAGTAGTTAGAAAGGCAACTATAAAA  TCTATAATGATAACACGTGGCAGGATTAGAAGTCTTCTGTTAAACATTTAAGAACCACAT  CTTTGTTTTAGATGTTACCTCAGTGCACCTTTTTCACTGGTAAGGCACCTGCTTGCTGTG  GGTGCCCCATTGTTACCCAGGTTTTCTTTTAGTAAAAACCTTGGTTGAACAAACCTAAG  GGAGTTTTCTTTCCATTTTGGCCTTTGAACCGAAAGGAAACCTGGGCCTTGGTTTTTT  AAGGGGGCCATTTGAAACCCCTGTTTAAATTTTTAATCCAGGGGCCTAAAATTTCTT  TCTTTTAAAAAATCCCCTTTAAAAATTTATTTTTAAAAAACGGGCCTAAAAAACCC  TCAAACCCCTTTCCCCTTTCCCCTTTTAAACCTCCCCCCTAAAGGGTTTTTA  AAATTTTTTTCACCCACCCCTTTCCCCTTTGGGGGAGAAAGATTTTAAAAAATTT  TCCCCAAAAAACCTTTTAAAAAATTTGTGTGGCCCCAAAAAATTTTTTTTTTTTTT  ATCCCCGGGG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021204
<b>Insert Size:</b>	1990 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<a href="#">NM_021204.1</a> , <a href="#">NP_067027.1</a>
<b>RefSeq Size:</b>	1992 bp
<b>RefSeq ORF:</b>	786 bp
<b>Locus ID:</b>	58478
<b>UniProt ID:</b>	<a href="#">Q9UHY7</a>
<b>Cytogenetics:</b>	4q21.22
<b>Domains:</b>	Hydrolase
<b>Protein Pathways:</b>	Cysteine and methionine metabolism
<b>Gene Summary:</b>	<p>Bifunctional enzyme that catalyzes the enolization of 2,3-diketo-5-methylthiopentyl-1-phosphate (DK-MTP-1-P) into the intermediate 2-hydroxy-3-keto-5-methylthiopentenyl-1-phosphate (HK-MTPenyl-1-P), which is then dephosphorylated to form the acireductone 1,2-dihydroxy-3-keto-5-methylthiopentene (DHK-MTPene).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1).</p>