

Product datasheet for **SC321231**

MLSTD2 (FAR1) (NM_032228) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MLSTD2 (FAR1) (NM_032228) Human Untagged Clone
Tag:	Tag Free
Symbol:	MLSTD2
Synonyms:	CSPSD; MLSTD2; PFCRD; SDR10E1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_032228.4
 GAGTGAAGAGAGCGCGACGGCGGCGGCGGCGCGCAGCTATTGCTGGACGGCCAGTG
 GGAGAGCGAGGCCTGAGCCTCTGCGTCTAGGATCAAAATGGTTTCAATCCCAGAACTACTA
 TGAAGGCAAGAACGTCTCTCCTCACAGGAGCTACCGGTTTTCTAGGGAAGGTGCTTCTGGA
 AAAGTTGCTGAGGTCTTGTCTTAAGGTGAATTCAGTATATGTTTTGGTGAGGCAGAAAGC
 TGGACAGACACCACAAGAGCGAGTGGAAGAAGTCCTTAGTGGAAGCTTTTTGACAGATT
 GAGAGATGAAAATCCAGATTTTAGAGAGAAAATTATAGCAATCAACAGCGAACTCACCCA
 ACCTAAACTGGCTCTCAGTGAAGAAGATAAAGAGGTGATCATAGATTCTACCAATTATTAT
 ATTCCACTGTGCAGCTACAGTAAGGTTTAAATGAAAATTTAAGAGATGCTGTTTCAAGTAA
 TGTGATTGCAACGCGACAGCTTATTCTCTTGCACAACAAATGAAGAATCTGGAAGTGTT
 CATGCATGTATCAACAGCATATGCCTACTGTAATCGCAAGCATATTGATGAAGTAGTCTA
 TCCACCACCTGTGGATCCCAAGAAGCTGATTGATTCTTTAGAGTGGATGGATGATGGCCT
 AGTAAATGATATCAGCCAAAATTGATAGGAGACAGACCTAATACATACATATACACAAA
 AGCATTGGCAGAAATATGTTGTACAACAAGAAGGAGCAAACTAAATGTGGCAATTGTAAG
 GCCATCGATTGTTGGTGCCAGTTGGAAGAAGCTTTTCCAGGATGGATTGATAACTTTAA
 TGGACCAAGTGGTCTCTTATTGCGGCAGGGAAGGAATTCTTCAACAATACGTGCCTC
 CAACAATGCCCTTGCAGATCTTGTCTCTGTAGATGTAGTTGTCAACATGAGTCTTGCGGC
 AGCCTGGTATTCCGGAGTTAATAGACCAAGAAACATCATGGTGTATAATTGTACAACAGG
 CAGCACTAATCCTTTCCACTGGGGTGAAGTTGAGTACCATGTAATTTCCACTTTCAAGAG
 GAATCCTCTCGAACAGGCCTTCAGACGGCCCAATGTAAATCTAACCTCCAATCATCTTTT
 ATATCATTACTGGATTGCTGTAGCCATAAGGCCCCAGCATTCTGTATGATATCTACCT
 CAGGATGACTGGAAGAAGCCCAAGGATGATGAAAACAATAACTCGTCTTCACAAAGCTAT
 GGTGTTTCTTGAATATTTCAAGTAATTCTTGGGTTTGAATACTGAGAATGTCAATAT
 GTTAATGAATCAACTAAACCTGAAGATAAAAAGACCTTCAATATTGATGTACGGCAGTT
 ACATTGGGCAGAAATATATAGAGAACTACTGCTTGGGAATAAGAAGTACGTATTGAATGA
 AGAAATGTCTGGCCTCCCTGCAGCCAGAAAACATCTGAACAAGTTGCGGAATATACGTTA
 TGGTTTTAATACTATCCTTGTGATCCTCATCTGGCGCATTTTTATTGCAAGATCACAAAT
 GGCAAGAAATATCTGGTACTTTGTGGTTAGTCTGTGTTACAAGTTTTTGCATACTTCCG
 AGCATCCAGCACTATGAGATACTGAAGACCAAGGATTGAGCATTAGAACATCTATACATA
 TGGTGATCTAAATGTACAAAATGTAAGTATAGTCAATCTCACTTTTTGTCAAGACAT
 TAAACCATCTTAGATCGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_032228

OTI Disclaimer: 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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:	<u>NM_032228.4, NP_115604.1</u>
RefSeq Size:	5224 bp
RefSeq ORF:	1548 bp
Locus ID:	84188
UniProt ID:	<u>Q8WVX9</u>
Cytogenetics:	11p15.3
Domains:	Sterile
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene is required for the reduction of fatty acids to fatty alcohols, a process that is required for the synthesis of monoesters and ether lipids. NADPH is required as a cofactor in this reaction, and 16-18 carbon saturated and unsaturated fatty acids are the preferred substrate. This is a peroxisomal membrane protein, and studies suggest that the N-terminus contains a large catalytic domain located on the outside of the peroxisome, while the C-terminus is exposed to the matrix of the peroxisome. Studies indicate that the regulation of this protein is dependent on plasmalogen levels. Mutations in this gene have been associated with individuals affected by severe intellectual disability, early-onset epilepsy, microcephaly, congenital cataracts, growth retardation, and spasticity (PMID: 25439727). A pseudogene of this gene is located on chromosome 13. [provided by RefSeq, Jan 2015]