

Product datasheet for SC316507

MSL1 (NM 001012241) Human Untagged Clone

MSL1

Product data:

Product Type: Expression Plasmids

Product Name: MSL1 (NM_001012241) Human Untagged Clone

Tag: Tag Free

Synonyms: MSL-1

Mammalian Cell None

Selection:

Symbol:

Vector: pCMV6-XL4

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >NCBI ORF sequence for NM_001012241, the custom clone sequence may differ by one or

more nucleotides

Restriction Sites: Notl-Notl

ACCN: NM_001012241

AAATAG

Insert Size: 4300 bp



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MSL1 (NM_001012241) Human Untagged Clone - SC316507

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: The ORF of this clone has been fully sequenced and found to be a perfect match to

NM 001012241.1, but the ORF of this cDNA clone is 789bp longer than the reference.

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 001012241.1</u>, <u>NP 001012241.1</u>

17q21.1

 RefSeq Size:
 3834 bp

 RefSeq ORF:
 1056 bp

 Locus ID:
 339287

 UniProt ID:
 Q68DK7

Cytogenetics:

Gene Summary: Component of histone acetyltransferase complex responsible for the majority of histone H4

acetylation at 'Lys-16' (H4K16ac) which is implicated in the formation of higher-order

chromatin structure (PubMed:16227571). Greatly enhances MSL2 E3 ubiquitin ligase activity, promoting monoubiquitination of histone H2B at 'Lys-34' (H2BK34Ub) (PubMed:21726816). This modification in turn stimulates histone H3 methylation at 'Lys-4' (H3K4me) and 'Lys-79'

(H3K79me) and leads to gene activation, including that of HOXA9 and MEIS1

(PubMed:21726816). In the MSL complex, acts as a scaffold to tether MSL3 and KAT8 together

for enzymatic activity regulation (PubMed:22547026).[UniProtKB/Swiss-Prot Function]