

Product datasheet for **SC337751**

MMS19 (NM_001289403) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MMS19 (NM_001289403) Human Untagged Clone
Tag:	Tag Free
Symbol:	MMS19
Synonyms:	CIAO4; hMMS19; MET18; MMS19L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001289403, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGCTGCCGCGCTGTGGAGGCGGCGGCCTATGGGTGCCCTATGGGGCCTCGTGCACGACTTCG
TCGTGGGTGAGCAAGAGGGCCCCGCTGACCAGGTGGCTGCAGATGTGAAATCTGGCAACTATACAGTGTT
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CAGTCCCTGCCACAGGTGGACCGACACACAGTCTACAATATCATCACCATTATGCGAACCCGGGAAG
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AGCCAAACCCCTGGATGACAAGAAGAGACTGGTGCGAAGGAAGCAGTGTGAGCCAGAGGGGAGTGGTTT
CTGTTGGGAGCCCTGGCAGCTGA
    
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Restriction Sites: Sgfl-Mlul
ACCN: NM_001289403

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).
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:	<ol style="list-style-type: none">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:	NM_001289403.1 , NP_001276332.1
RefSeq Size:	3574 bp
RefSeq ORF:	2964 bp
Locus ID:	64210
UniProt ID:	Q96T76
Cytogenetics:	10q24.1
Protein Families:	Druggable Genome, Transcription Factors
Gene Summary:	<p>Key component of the cytosolic iron-sulfur protein assembly (CIA) complex, a multiprotein complex that mediates the incorporation of iron-sulfur cluster into apoproteins specifically involved in DNA metabolism and genomic integrity. In the CIA complex, MMS19 acts as an adapter between early-acting CIA components and a subset of cellular target iron-sulfur proteins such as ERCC2/XPD, FANCI and RTEL1, thereby playing a key role in nucleotide excision repair (NER), homologous recombination-mediated double-strand break DNA repair, DNA replication and RNA polymerase II (POL II) transcription (PubMed:22678362, PubMed:22678361, PubMed:29225034, PubMed:23585563). As part of the mitotic spindle-associated MMXD complex, plays a role in chromosome segregation, probably by facilitating iron-sulfur cluster assembly into ERCC2/XPD (PubMed:20797633). Indirectly acts as a transcriptional coactivator of estrogen receptor (ER), via its role in iron-sulfur insertion into some component of the TFIIF-machinery (PubMed:11279242).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the coding region, compared to variant 1. This results in a shorter isoform (2), compared to isoform 1.</p>