

Product datasheet for **SC100442**

MTREX (NM_015360) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MTREX (NM_015360) Human Untagged Clone
Tag:	Tag Free
Symbol:	MTREX
Synonyms:	Dob1; fSAP118; KIAA0052; Mtr4; SKIV2L2
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_015360, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGACGCATTCGGAGATGAGCTGTTACGCGTGTTCGAGGGCGACTCGACCACTGCGGCGGGAACCA
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CACCAAAATCAAGAGAGATATTGTGTTTCTGCCAGCCTCTACTTGTAG
    
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Chromatograms: https://cdn.origene.com/chromatograms/ja3507_a02.zip

Restriction Sites:	NotI-NotI
ACCN:	NM_015360
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_015360.2 , NP_056175.2
RefSeq Size:	4222 bp
RefSeq ORF:	3129 bp
Locus ID:	23517
UniProt ID:	P42285
Cytogenetics:	5q11.2
Domains:	DEAD, helicase_C
Protein Pathways:	RNA degradation
Gene Summary:	Component of exosome targeting complexes. Subunit of the trimeric nuclear exosome targeting (NEXT) complex, a complex that directs a subset of non-coding short-lived RNAs for exosomal degradation. Subunit of the trimeric poly(A) tail exosome targeting (PAXT) complex, a complex that directs a subset of long and polyadenylated poly(A) RNAs for exosomal degradation. The RNA exosome is fundamental for the degradation of RNA in eukaryotic nuclei. Substrate targeting is facilitated by its cofactor MTREX, which links to RNA-binding protein adapters (PubMed:27871484). Associated with the RNA exosome complex and involved in the 3'-processing of the 7S pre-rRNA to the mature 5.8S rRNA (PubMed:17412707, PubMed:29107693). May be involved in pre-mRNA splicing.[UniProtKB/Swiss-Prot Function]