

Product datasheet for **SC201370**

NDUFA1 (NM_004541) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	NDUFA1 (NM_004541) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	NDUFA1
Synonyms:	CI-MWFE; MC1DN12; MWFE; ZNF183
ACCN:	NM_004541
Insert Size:	158 bp
Insert Sequence:	>SC201370 3'UTR clone of NM_004541 The sequence shown below is from the reference sequence of NM_004541. The complete sequence of this clone may contain minor differences, such as SNPs. Blue =Stop Codon Red =Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GTGTCAAAGGGTTTGGAGAACATTGATTAAAGGAAGCATTTTCTGATTGATGAAAAATAACTCAGTT ATGGCCATCTACCCCTGCTAGAAGGTTACAGTGTATTATGTAGCATGCAATGTGTTATGTAGTGCCTAA TAAAAATAAAATGAAAAAA ACGCGT AAGCGGCCGCGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	NM_004541.4



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Summary:

The human NDUFA1 gene codes for an essential component of complex I of the respiratory chain, which transfers electrons from NADH to ubiquinone. It has been noted that the N-terminal hydrophobic domain has the potential to be folded into an alpha-helix spanning the inner mitochondrial membrane with a C-terminal hydrophilic domain interacting with globular subunits of complex I. The highly conserved two-domain structure suggests that this feature is critical for the protein function and might act as an anchor for the NADH:ubiquinone oxidoreductase complex at the inner mitochondrial membrane. However, the NDUFA1 peptide is one of about 31 components of the "hydrophobic protein" (HP) fraction of complex I which is involved in proton translocation. Thus the NDUFA1 peptide may also participate in that function. [provided by RefSeq, Jul 2008]

Locus ID:

4694

MW:

5.8