

## Product datasheet for **SC100927**

### NDUFAF6 (NM\_152416) Human Untagged Clone

#### Product data:

|                           |                                                                                                   |
|---------------------------|---------------------------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                                               |
| Product Name:             | NDUFAF6 (NM_152416) Human Untagged Clone                                                          |
| Tag:                      | Tag Free                                                                                          |
| Symbol:                   | NDUFAF6                                                                                           |
| Synonyms:                 | C8orf38; FRTS5; MC1DN17                                                                           |
| Mammalian Cell Selection: | None                                                                                              |
| Vector:                   | <u>pCMV6-XL4</u>                                                                                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                                            |
| Fully Sequenced ORF:      | >NCBI ORF sequence for NM_152416, the custom clone sequence may differ by one or more nucleotides |

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ATGGCGGCTCCGCGCACGGCTCTGTCTGGGGGCCGTTGCGGCTTGGCATCCCCGGCCTGTGCTGCCGCC
GGCCGCCTCTGGGTCTGTACGCGCGCATGCGGCGGCTGCCCGGGCCGGAGGTGTCTGGGCGGAGCGTGCC
TGCGGCCAGCGGACCGGGCGCCTGGGGCACTGACCACTACTGCCTGGAGCTGCTGCGGAAACGGGATTAT
GAAGGTTATTTATGCTCCCTGCTGCTCCCTGCAGAATCCCGAAGCTCTGTTTTTGCAGTGAAGGCTTTA
ATGTGGAAGTGGCTCAGGTTAAAGACTCAGTCTCTGAGAAAACAATTGGACTGATGCGAATGCAGTTTTG
GAAAAAACTGTGAAGATATATACTGTGACAATCCACCACATCAGCCTGTGGCCATTGAATATGAAG
GCTGTTAAAAGACATAATCTGACTAAAAGATGGCTTATGAAAATCGTCGATGAAAGAGAAAAAATCTGG
ATGACAAAGCATATCGTAATATCAAGGAACTGGAAAATTATGCTGAAAACACACAGAGCTCTCTCTTTA
CTTAACACTAGAAATATTGGGTATAAAGGATCTTCATGCAGATCATGCTGCAAGTCATATTGAAAAAGCA
CAAGGCATTGTCACTTGCTTGAGAGCAACCATATCATGGGAGCAGAAGAAAGGTGTTCCCTTCCCATGG
ATATTTGTATGCTGCATGGTGTTCACAAGAGGACTTTCTACGGAGGAACCAAGATAAAATGTGAGAGA
TGTAATATATGACATTGCCAGTCAAGCACACTTGACCTAAAGCATGCTAGGTCCTTTCACAAAAGTGT
CCTGTGAAAGCATTTCCTGCTTTTCTTCAGACGGTTTCTCTAGAGGACTTCTAAAGAAAATTCAGCGAG
TGGATTTTGATATATCCACCATCTTTACAGCAGAAGAATACATTACTTCCATTATTTGTATATTCA
GTCATGGAGAAAAACATATTAA
  
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| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_152416 unedited</p> <p>CACGAGGGCAGGCCAGTTTCTGGGCCCANATTGACTTCACAGAGCCCCAGTAAAGATG<br/> GAAAGCCAGAACCCCCCACTGGGGATTGAGAAGAAAAAGTGGATGGGAAGCTGCTGTTA<br/> AAAGACATAATCTGACTAAAAGATGGCTTATGAAAATCGTCGATGAAAGAGAAAAAATC<br/> TGGATGACAAAGCATATCGTAATATCAAGGAACTGGAAAATTATGCTGAAAACACACAGA<br/> GCTCTCTTCTTTACTTAACACTAGAAATATTGGGTATAAAGGATCTTCATGCAGATCATG<br/> CTGCAAGTCATATTGAAAAAGCACAAGGCATTGCACTTGCTTGAGAGCAACACCATATC<br/> ATGGGAGCAGAAGAAAGGTGTTCTTCCCATGGATATTTGTATGCTGCATGGTGTTTCAC<br/> AAGAGGACTTTCTACGGAGGAACCAAGATAAAAAATGTGAGAGATGTAATATATGACATTG<br/> CCAGTCAAGCACACTTGACCTAAAGCATGCTAGGTCCTTTCACAAAACCTGTTCTGTGA<br/> AAGCATTTCTGCTTTTCTCAGACGGTTTCTCTAGAGGACTTTCTAAAGAAAATTCAGC<br/> GAGTGGATTTTGATATATTCCACCCATCTTACAGCAGAAAGATACATTACTTCCATTAT<br/> ATTTGTATATTCAGTCATGGAGAAAAACATATTAATAATTTTC</p>                                                                                                   |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_152416 unedited</p> <p>AATTAAACCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGCCCCA<br/> AAATTATTTTAAATGTTTTCTCCTGGCTGGATTTTCCAATTTTATGGAAGTAATGT<br/> TTTCTTCTGCTGGAAAAATGGGGGAATTTATCAAAATCCCCCCTGAATTTTCTTTAA<br/> AAAATCCCTAAAAAACCCCTGAAAAAACAGGAAATGCTTTCACAAGAACAATTTT<br/> GTGAAAAGGCCCTAGCCTGCTTTAAGGGCCAGTGTGCTTGACTGGGAATGGCCTATATTA<br/> CATCTCTCACATTTTATCTTGGGTCCCCCGAAAAAGTCCCCTTGGGAAACACCCTGCC<br/> GCATACAAATTTCTGGGAAAGAACACCTTTTTCTGCTCCCAAGAAATGGGGTGCTC<br/> TCAACAAATGACAATGCCCTGGGCTTTTCCAATATGACTTGCAACATGGTCTGCATGAA<br/> AATCCCTTTTACCCCATATTTTGTGTTAAATAAAAAACCCTGTGGGTTTTCAA<br/> CATAATTTTCCAATCCCTGATATTACCAATGCCTTGGCAACCAATTTTTTCTCTTT<br/> CATCCACGATTTTCATAAACCATCTTTTAAATCAAATTATGTCTTTTAAACAACATTTCCC<br/> ATCCACTTTTTTTCTCAATCCCCACTGGGGGGGTCTGGGTTTTTCATCTTTTCGGGGCT<br/> CTGTGAAGTCATCTGGGGCCCAAACTGGGCCGGCCTTTTGCCAAATCCGGGGCCGCC<br/> CTTATGGAGGCGTTTTAAAAATTTGAACGTTCACTA</p> |
| <b>Restriction Sites:</b>           | NotI-NotI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ACCN:</b>                        | NM_152416                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Insert Size:</b>                 | 750 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>OTI Disclaimer:</b>              | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Components:</b>                  | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reconstitution Method:</b>       | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>RefSeq:</b>                      | <u>NM_152416.1, NP_689629.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

RefSeq Size: 1804 bp

RefSeq ORF: 366 bp

Locus ID: 137682

UniProt ID: [Q330K2](#)

Cytogenetics: 8q22.1

**Gene Summary:** This gene encodes a protein that localizes to mitochondria and contains a predicted phytoene synthase domain. The encoded protein plays an important role in the assembly of complex I (NADH-ubiquinone oxidoreductase) of the mitochondrial respiratory chain through regulation of subunit ND1 biogenesis. Mutations in this gene are associated with complex I enzymatic deficiency. [provided by RefSeq, Nov 2011]

Transcript Variant: This variant (1) encodes the longest isoform (1).