

Product datasheet for **SC107985**

C20orf7 (NDUFAF5) (NM_024120) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C20orf7 (NDUFAF5) (NM_024120) Human Untagged Clone
Tag:	Tag Free
Symbol:	C20orf7
Synonyms:	bA526K24.2; C20orf7; dj842G6.1; MC1DN16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF sequence for NM_024120 edited

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ATGCTGCGGCCGCGCAGGGCTCTGGCGCTTATGTCGGCGACCTTGGGCGGCGAGGGTCCCA
GCGGAGAAATCTTGCCGTAGGGAAGTCACCTCTGGTGTCTCTCCCGCGGTAGCACCTCG
CCCAGAACCTGAATATTTTCGACCGGGATTTGAAAAGGAAACAGAAGAACTGGGCAGCC
CGGCAGCCCGAGCCGACCAAAATTTGACTACCTGAAGGAGGAGGTTGGAAGTCGGATCGCA
GACCGTGTATATGACATACCCAGAAATTTCCCTTGGTCTTGGTGTGGAAGA
GGTTACATTGCACAATATTTGAATAAGGAACTATTGGAAGTTTTTCCAAGCTGACATT
GCAGAAAATGCTTTGAAAAATCCTCAGAAACAGAAATACCTACTGTCAGCGTTTTAGCT
GATGAAGAATTCCTTCCCTTCAAAGAAAATACATTTGACCTGGTGGTTAGCAGTTTAAGT
TTGCATTGGGTGAATGACCTTCCTAGAGCACTTGAGCAGATTCATTATATTTAAACCA
GATGGAGTGTATCGGTGCAATGTTTGGAGGCGACACTCTATGAACCTCGGTGTTCC
TTACAGTTAGCGGAAACGAAAGGAAGGAGGATTTCTCCACACATTTCTCCTTCACT
GCTGTCAATGACCTGGGACATCTGCTTGGGAGAGCTGGCTTAATACTCTGACTGTGGAC
ACTGATGAAATCAAGTTAACTATCCTGGAATGTTTGAATTGATGGAAGATTTACAAGGT
ATGGGTGAGAGTAAGTGTGCTTGAATAGAAAAGCCCTGCTGCATCGAGACACAATGCTG
GCAGCTGCGGCAGTGTACAGAGAAATGTACAGAAATGAAGATGGTTCAGTACCTGCTACA
TACCAGATCTATTACATGATAGGATGGAATATCATGAGTCACAGGCAAGACCAGCTGAA
AGAGGTTCCGCAACTGTGTCATTTGGAGAGCTAGGAAAAATAAACACCTTATGCCACCG
GGGAAAAAATCACAATAA
  
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_024120 unedited
 AGCTTGGATTTGTATACGACTTATATAGCGCGCCGACGAATTCGCACGAGGGGTCGCAGC
 TGGAGATGCTGCGGCCGCGCAGGGCTCTGGCGCTTATGTGCGCGACCTGGGCGCGCAGGG
 TCCCAGCGGAGAATCTTGGCCGTAGGGAAGTCACTCTGGTGTCTCTCCCGCGGTAGCA
 CCTCGCCGAGAACCTGAATATTTTCGACCGGGTATTTGAAAAGGAAACAGAAGAAGTGG
 GCAGCCCGGCAGCCGAGCCGACCAATTTGACTACCTGAAGGAGGAGGTTGGAAGTCGG
 ATCGCAGACCGTGTATATGACATACCCAGAAATTTCCCGCTTGGTGGATCTTGGTTGT
 GGAAGAGGTTACATTGCACAATATTTGAATAAGGAACTATTGGAAAGTTTTTCCAAGCT
 GACATTGCAGAAATGCTTTGAAAAATTCCTCAGAAACAGAAATACCTACTGTACAGCGTT
 TTAGCTGATGAAGAATTCCTTCCCTTCAAAGAAAATACATTTGACCTGGTGGTTAGCAGT
 TTAAGTTTGCATTGGGTGAATGACCTTCTAGAGCACTTGAGCAGATTCAATATATTTTA
 AAACCAGATGGAGTGTATCGGTGCAATGTTTGGAGGCGACACACTCTATGAACCTCGG
 TGTTCTTACAGTTAGCGGANACGGAAGGGAAGGAGGATTTTCTCCACACATTTCTCT
 TTCCTGCTGTCAATGACCTGNGACATCTGCTTGGGAGAGCTGGGCTTTATACTCTGACT
 GTGGACACTGATGAAATTCAGTTAACTATCCTGGAATGTTTGAATTGATGGAAGATTTAC
 NAGGTATGGGTGAGAAGTACTGTCTTGNATAGAAAGCCCTGCTGCATCGAGACACATG
 CTGGCAGCTGCGGCAGT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_024120 unedited
 GACCGCGCCGCAATCNANAGTCGAGTTTTTTTTTTTTTTTTTAACTGAATAAATAT
 TTATTGTGATTTTTTCCCGGTGGCATAAGGTTGTTATTTTCTAGCTCTCCAAATGA
 CACAGTTGCGGAACCTCTTTCAGCTGGTCTTGCCTGTGACTCATGATATTTCCATCCTAT
 CATGTAATAGATCTGGTATGTAGCAGGTAAGTCACTCTTCAATTTCTGTACATTTCTCT
 GTACACTGCCGAGCTGCCAGCATTGTGTCTCGATGCAGCAGGGCTTTTCTATTCCAAGC
 ACAGTTACTCTCACCCATACCTTGTAATCTTCCATCAATTCAAACATTCCAGGATAGTT
 AACTTGAATTTTCATCAGTGTCCACAGTCAGAGTATTAAGCCAGCTCTCCAAGCAGATG
 TCCCAGGTCATTGACAGCAGTGAAAGGAGAAATGTGTGGAGAAAACTCCTCTTCCCTTTC
 CGTTTCCGCTAACTGTAAGGAACACCGAAGTTCATAGAGTGTGTCGCCTCCAAACATTGC
 ACCGATAAACACTCCATCTGGTTTTAAATATAATGAATCTGCTCAAGTGCTCTAGGAAG
 GTCATTCACCCAAATGCAAACTTAACTGCTAACCACAGGTCAAATGTATTTCTTTGAA
 GGAAGGAATTTCTCATCAGCTAAACGCTGACAGTAGGATTTCTGTTTCTGAGGAATT
 TTTCAAAGCATTTTCTGCAATGTACAGTTGGAAAACTTTCCAATAGTTTTCTCATTCA
 AATATTGTGCACTGTTACCTCTTTCACACCCAGATCCAAAGCAGGGGGGAATTTCTTGGT
 ATGTCATATACACCGTCTGCGATCCGACTTCCACCTNCTNCTTNAAGTAGTCAAATTTTGT
 CGCTTCCGGCTGCCGGCTGCCATTCTCTNGTTCCTTTT

Restriction Sites:

NotI-NotI

ACCN:

NM_024120

Insert Size:

1060 bp

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:	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_024120.2, NP_077025.2</u>
RefSeq Size:	1650 bp
RefSeq ORF:	1038 bp
Locus ID:	79133
UniProt ID:	<u>Q5TEU4</u>
Cytogenetics:	20p12.1
Protein Families:	Druggable Genome
Gene Summary:	The NADH-ubiquinone oxidoreductase complex (complex I) of the mitochondrial respiratory chain catalyzes the transfer of electrons from NADH to ubiquinone, and consists of at least 43 subunits. The complex is located in the inner mitochondrial membrane. This gene encodes a mitochondrial protein that is associated with the matrix face of the mitochondrial inner membrane and is required for complex I assembly. A mutation in this gene results in mitochondrial complex I deficiency. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2009] Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.