

Product datasheet for **SC127135**

GRIM19 (NDUFA13) (NM_015965) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRIM19 (NDUFA13) (NM_015965) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRIM19
Synonyms:	B16.6; CDA016; CGI-39; GRIM-19; GRIM19; MC1DN28
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127135 sequence for NM_015965 edited (data generated by NextGen Sequencing)

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ATGGCGGCGTCAAAGGTGAAGCAGGACATGCCTCCGCCGGGGGCTATGGGCCCATCGAC
TACAAACGGAACCTGCCGCGTCGAGGACTGTCGGGCTACAGCATGCTGGCCATAGGGATT
GGAACCCGTGATCTACGGGCACTGGAGCATAATGAAGTGAACCGTGAGCGCAGGCGCCTA
CAAATCGAGGACTTCGAGGCTCGCATCGCGCTGTTGCCACTGTTACAGGCAGAAACCGAC
CGGAGGACCTTGCAGATGCTTCGGGAGAACCTGGAGGAGGAGGCCATCATCATGAAGGAC
GTGCCCGACTGGAAGGTGGGGGAGTCTGTGTTCCACACAACCCGCTGGGTGCCCCCTTG
ATCGGGGAGCTGTACGGGCTGCGCACCACAGAGGAGGCTCTCCATGCCAGCCACGGCTTC
ATGTGGTACACGTAG
```

Clone variation with respect to NM_015965.6



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015965 unedited
 CATTAGTATCCGACTTATATAGGCGGCCGCAATTTCGCACGAGGGCACCTGGCTCCTTT
 GAGAGCTCGGAGTTTCTGACTGGCTGCGCAACACCCAGAGGCAAGGTGAACGCGAGGG
 CCTATAATGCAAGAACCAAGGCGAGTACGCCCCTGTCTGGGCAAAAGAGGAGTAAAGACC
 CCTCAGCTGCAGCCCGCAGCGCATTCTTCCAGGGTCCGCCAGAGCTTCCCGCG
 CGGTCGGATAGTTACACTACTGTCCGGGACTTCTAGCCGTGCCGCGACCATCTCAAGT
 GCTTCCGCCACACTCATCATGGCGGTGGCAGTAAGTCACTTCCGCCCGGACCGGAAGTG
 TGGGATACTGCGAGTATGGCGCGTCAAAGGTGAAGCAGGACATGCCTCCGCCGGGGGC
 TATGGGCCATCGACTACAAACGGAACCTTGCCGCGTCGAGGACTGTGGGCTACAGCATG
 CTGGCCATAGGGATTGGAACCCTGATCTACGGGCACTGGAGCATAATGAAGTGGAACCGT
 GAGCGCAGGCGCTACAAATCGAGGACTTCGAGGCTCGCATCGCGCTGTTGCCACTGTTA
 CAGGCAGAAACCGACCGGAGGACCTTGCAGATGCTTCGGGAGAACCTGGNNAGAGAGGCC
 ATCATCATGAAGGACGTGCCGACTGGAANGTGGNGGAGTCTGTGTTCCACACAACCCGC
 TGGGTGCCCCCTTGATCGNGAGCTGTACGGGCTGCGCACCACAGAGAAGGCTCTCCTG
 CCAGCCACGGCTCATGTGTACAGTAGGCCCTGTGGCCTCGGCCACTGAATCCTGCC
 TCCNACTGGGGACGAATAATGCCCTGCAAACCTGAAAAAAAAAAAAAAAAAACTCGATCT
 TAATGCGGCCCGGTCACTTCTGTTNCTGAAAAATCCGGGTGGCATCCCTGGAACCTCCC
 AAGGCTCTTCTGCC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015965 unedited
 GTACATTATGNACGCGGCCCAATCTATGATCGGTTTTTTTTTTTTTTTTTTTTCAGGTC
 TGCAGAGCATTTATCCGTCCCAGTGGGAGGGGAGGGATCCAGGTGGCCGGAGGGCAC
 AGGGCCTACGTGTACCACATGAAGCCGTGGCTGGCATGGAGAGCCTCCTCTGTGGTGCGC
 AGCCCGTACAGCTCCCCGATCAAGGGGGCACCCAGCGGTTGTGTGGAACACAGACTCC
 CCCACCTTCCAGTCGGGACGTCCTTCATGATGATGGCCTCCTCCTCCAGTTCTCCCGA
 AGCATCTGCAAGGTCTCCGGTTCGGTTTCTGCCTGTAACAGTGGCAACAGCGCGATGCGA
 GCCTCGAAGTCTCGATTTGTAGGCGCTGCGCTCACGGTTCCACTTCATTATGCTCCAG
 TGCCCGTAGATCAGGGTTCCAATCCCTATGGCCAGCATGCTGTAGCCGACAGTCTCGA
 CGCGGCAAGTTCGGTTTGTAGTCGATGGGCCATAGCCCCCGGGGAGGCATGCTCTGC
 TTCACCTTTGACGCCCCATACTCGCAGTATCCACACTTCCGGTCCCGGGCGGAAGTGA
 CTTACTGCCACC GCCATGATGAGTGTGGCGGAAGCACTTGAGATGGTCCGCGGCACGGCT
 AGGAAGTCCCGGACAGTAGTGTAACTATCCGACCGCGCGGGAATCTCTGCGCGGGACC
 CTGGGTAGAAATGCCCTGCCGGGCTGCACCTGAGGGGTCTTACTCTCTTTTGCCTCAAA
 GGGCGTACTCGCCTTGGGTCTTGGCATTATAGGCCTCGCGTTCACACTGCCCTGGGGT
 GGTGCCAGCCAATCAAACCTCCGACCTTAAAGA

Restriction Sites:

NotI-NotI

ACCN:

NM_015965

Insert Size:

900 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: [NM_015965.3](#), [NP_057049.3](#)

RefSeq Size: 1023 bp

RefSeq ORF: 684 bp

Locus ID: 51079

UniProt ID: [Q9P0J0](#)

Cytogenetics: 19p13.11

Protein Families: Transcription Factors, Transmembrane

Gene Summary: This gene encodes a subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which functions in the transfer of electrons from NADH to the respiratory chain. The protein is required for complex I assembly and electron transfer activity. The protein binds the signal transducers and activators of transcription 3 (STAT3) transcription factor, and can function as a tumor suppressor. The human protein purified from mitochondria migrates at approximately 16 kDa. Transcripts originating from an upstream promoter and capable of expressing a protein with a longer N-terminus have been found, but their biological validity has not been determined. [provided by RefSeq, Oct 2009]