

Product datasheet for **RC218988**

GRIM19 (NDUFA13) (NM_015965) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRIM19 (NDUFA13) (NM_015965) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRIM19
Synonyms:	B16.6; CDA016; CGI-39; GRIM-19; GRIM19; MC1DN28
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC218988 representing NM_015965 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAAGAACCAAGGCGAGTCACGCCCTGTCTGGGCAAAAGAGGAGTAAAGACCCCTCAGCTGCAGCCCG
GCAGCGCATTCTACCCAGGGTCCGCCCGCAGAGCTTCCCGCGCGTTCGGATAGTTACTACTGTCCG
GGACTTCTAGCCGTGCCGCGGACCATCTCAAGTGCTCCGCCCACTCATGCGCGTGGCAGTAAGT
CACTTCCGCCCGGACCGAAGTGTGGGATACTGCGAGTATGGCGCGTCAAAGGTGAAGCAGGACATGC
CTCCGCCGGGGCTATGGGCCATCGACTACAAACGGAATTGCCGCGTCGAGGACTGTCGGGCTACAG
CATGCTGGCCATAGGGATTGGAACCTGATCTACGGGCACTGGAGCATAATGAAGTGAACCGTGAGCGC
AGGCGCTACAAATCGAGGACTTCGAGGCTCGCATCGCGCTGTTGCCACTGTTACAGGCAGAAACCGACC
GGAGGACCTTGCAGATGCTTCGGGAGAACCTGGAGGAGGAGGCCATCATCATGAAGGACGTGCCCGACTG
GAAGGTGGGGAGTCTGTGTTCCACACAACCCGCTGGGTGCCCCCTTGATCGGGGAGCTGTACGGGCTG
CGCACCACAGAGGAGGCTCTCCATGCCAGCCACGGCTTCATGTGGTACACG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC218988 representing NM_015965
Red=Cloning site Green=Tags(s)

MQEPRRVTPCLGKRGVKTPLQPGSAFLPRVRRQSFPARSDSYTTVRDFLAVPRTISSASATLIMAVAVS
 HFRPGPEVWDTASMAASKVKQDMPPPGGYGPIDYKRNLPRRGLSGYSMLAIGIGTLIYGHWSIMKWNRR
 RRLQIEDFEARIALPLLQAETDRRTLQMLRENLEEEAIIMKDVPDWKVGESVFHTTRWVPLIGELYGL
 RTTEELHASHGFMWYT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6111_e11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015965

ORF Size: 681 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_015965.5](#)

RefSeq Size: 1023 bp

RefSeq ORF: 435 bp

Locus ID: 51079

UniProt ID: [Q9P0J0](#)

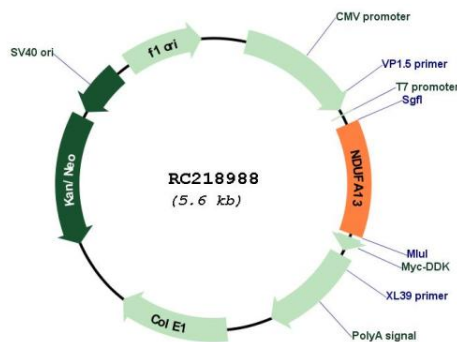
Cytogenetics: 19p13.11

Protein Families: Transcription Factors, Transmembrane

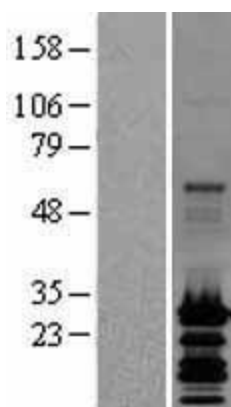
MW: 25.82 kDa

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]

Product images:



Circular map for RC218988



Western blot validation of overexpression lysate (Cat# [LY402477]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218988 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).