

Product datasheet for **RC204378**

NIP30 (FAM192A) (NM_024946) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NIP30 (FAM192A) (NM_024946) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NIP30
Synonyms:	C16orf94; CDA018; CDA10; FAM192A; NIP30; PIP30
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204378 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGGAGGGGATGATGGTAACCTTATTATCAAAAAGAGGTTTGTGTCTGAGGCAGAACTAGATGAAC
GGCGCAAAGGAGGCAAGAAGAATGGGAGAAAGTTCGAAAACCTGAAGATCCAGAAGAATGTCCAGAGGA
GGTTTATGACCCTCGATCTCTATATGAAAGGCTACAGGAACAGAAGGACAGGAAGCAGCAGGAGTACGAG
GAACAGTTCAAAATCAAAAACATGGTAAGAGGCTTAGATGAAGATGAGACCAACTTCCTTGATGAGGTTT
CTCGACAGCAGGAACTAATAGAAAAGCAACGAAGAGAAGAAGAACTGAAAGAAGTGAAGGAATACAGAAA
TAACCTCAAGAAGTTGGAATTTCTCAAGAGAACAAGAAGGAAGTGGAAAAGAACTGACTGTGAAGCCT
ATAGAAAACCAAGAACAAGTTCTCCAGGCGAAGCTGTTGGCAGGAGCTGTGAAGCATAAGAGCTCAGAGA
GTGGCAACAGTGTGAAAAGACTGAAACCGGACCCTGAGCCAGATGACAAGAATCAAGAGCCCTCATCCTG
CAAGTCTCTCGGAAACACCTCCCTGAGTGGCCCTCCATCCACTGCCCTCTGCTGCAGTATGTATCGGC
ATCCTCCAGGCTGGGTGCCTACTCTGGGAGCAGCGACTCCGAGTCCAGCTCAGACAGCGAAGGCCCA
TCAATGCCACCGAAAGATTGTCTCCTCCATCTCCGAACCAACACCTTCTCGAGGCCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC204378 protein sequence
 Red=Cloning site Green=Tags(s)

MDGGDDGNLIKKRFVSEAELDERRKRRQEEWEKVRKPEDPEECPEEVYDPRSLYERLQEQQDRKQQEYE
 EQFKFKNMVRGLDEDETNFLDEVSRQQELIEKQRREEELKELKEYRNLLKKVGISQENKKEVEKLLTVKP
 IETKNKFSQAKLLAGAVKHKSSSESGNSVKRLKPDPEPDDKNQEPSSCKSLGNTSLSGPSIHCPSAAVCIG
 ILPLGLAYSGSSDSESSDSEGTINATGKIVSSI FRTNTFLEAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6011_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_024946

ORF Size: 762 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_024946.4](#)

RefSeq Size: 2865 bp

RefSeq ORF: 765 bp

Locus ID: 80011

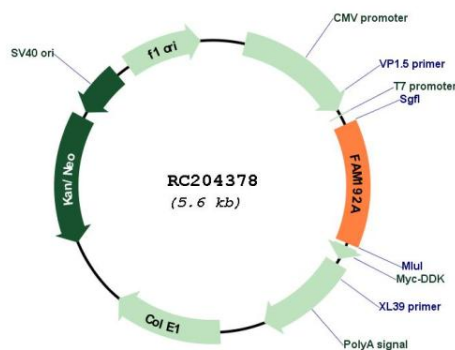
UniProt ID: [Q9GZU8](#)

Cytogenetics: 16q13

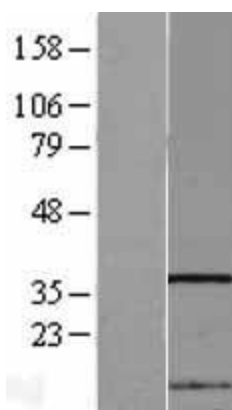
MW: 28.9 kDa

Gene Summary: Promotes the association of the proteasome activator complex subunit PSME3 with the 20S proteasome and regulates its activity. Inhibits PSME3-mediated degradation of some proteasome substrates, probably by affecting their diffusion rate into the catalytic chamber of the proteasome. Also inhibits the interaction of PSME3 with COIL, inhibits accumulation of PSME3 in Cajal bodies and positively regulates the number of Cajal bodies in the nucleus. [UniProtKB/Swiss-Prot Function]

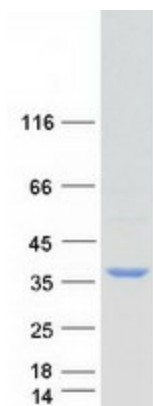
Product images:



Circular map for RC204378



Western blot validation of overexpression lysate (Cat# [LY403039]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204378 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FAM192A protein (Cat# [TP304378]). The protein was produced from HEK293T cells transfected with FAM192A cDNA clone (Cat# RC204378) using MegaTran 2.0 (Cat# [TT210002]).