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Product datasheet for RC200160

C9orf95 (NMRK1) (NM_017881) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C9orf95 (NMRK1) (NM_017881) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C9orf95
Synonyms:	bA235O14.2; C9orf95; NRK1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC200160 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAACATTTATCATTGGAATCAGTGGTGTGACAAACAGTGGCAAAACAACACTGGCTAAGAATTTGC
AGAAACACCTCCCAAATTGCAGTGTCATATCTCAGGATGATTTCTTCAAGCCAGAGTCTGAGATAGAGAC
AGATAAAAATGGATTTTTGCAGTACGATGTGCTTGAAGCACTTAACATGGAAAAAATGATGTCAGCCATT
TCCTGCTGGATGGAAAGCGCAAGACACTCTGTGGTATCAACAGACCAGGAAAGTGCTGAGGAAATTCCCA
TTTTAATCATCGAAGGTTTTCTTCTTTTTAATTATAAGCCCCTTGACACTATATGGAATAGAAGCTATTT
CCTGACGATTCCATATGAAGAATGTAAAAGGAGGAGGAGTACAAGGGTCTATCAGCCTCCAGACTCTCCG
GGATACTTTGATGGCCATGTGTGGCCCATGTATCTAAAGTACAGACAAGAAATGCAGGACATCACATGGG
AAGTTGTGTACCTGGATGGAACAAAATCTGAAGAGGACCTCTTTTTGCAAGTATATGAAGATCTAATACA
AGAACTAGCAAAGCAAAAGTGTTTGCAAGTGACAGCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200160 protein sequence
Red=Cloning site Green=Tags(s)

MKTFIIGISGVTNSGKTTLAKNLQKHLPNCSVISQDDFFKPESEIETDKNGFLQYDVLEALNMEKMMSAI
SCWMESARHSVVSTDQESAEEIPILIIEGFLLFNYKPLDTIWNRSYFLTIPYEECKRRRSTRVYQPPDSP
GYFDGHVWPMYLKYRQEMQDITWEVVYLDGTKSEEDLFLQVYEDLIQELAKQKCLQVTA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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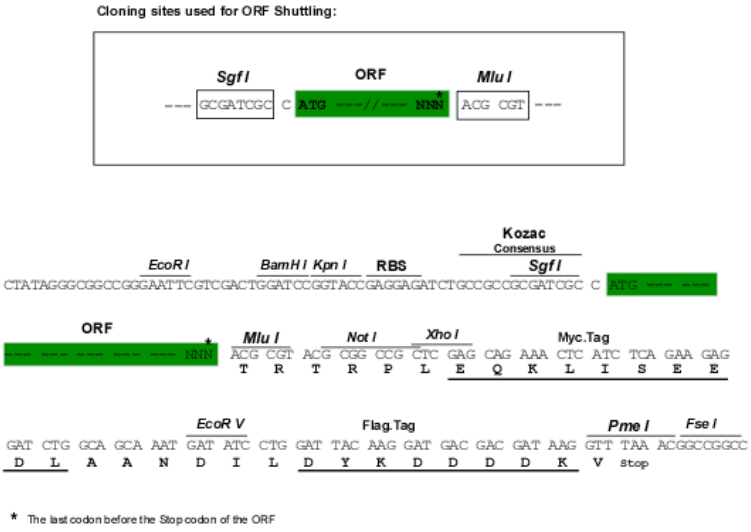
Chromatograms: https://cdn.origene.com/chromatograms/mk6385_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017881

ORF Size: 597 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_017881.3

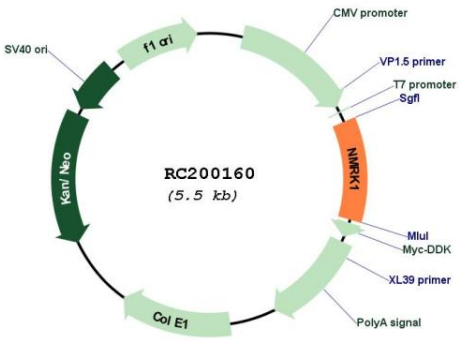
RefSeq Size: 1207 bp

RefSeq ORF: 600 bp

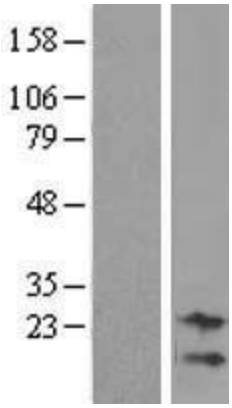
Locus ID: 54981

UniProt ID:	Q9NWW6
Cytogenetics:	9q21.13
Protein Pathways:	Nicotinate and nicotinamide metabolism
MW:	23.2 kDa
Gene Summary:	Nicotinamide adenine dinucleotide (NAD+) is essential for life in all organisms, both as a coenzyme for oxidoreductases and as a source of ADP-ribosyl groups used in various reactions. Nicotinic acid and nicotinamide, collectively known as niacin, are the vitamin precursors of NAD+. Nicotinamide riboside kinases, such as NRK1, function to synthesize NAD+ through nicotinamide mononucleotide using nicotinamide riboside as the precursor (Bieganowski and Brenner, 2004 [PubMed 15137942]).[supplied by OMIM, Mar 2008]

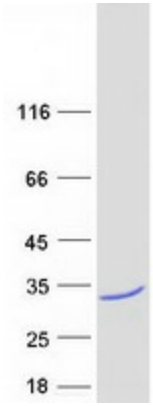
Product images:



Circular map for RC200160



Western blot validation of overexpression lysate (Cat# [LY413502]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200160 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NMRK1 protein (Cat# [TP300160]). The protein was produced from HEK293T cells transfected with NMRK1 cDNA clone (Cat# RC200160) using MegaTran 2.0 (Cat# [TT210002]).