

Product datasheet for **RG225183**

C9orf95 (NMRK1) (NM_001127603) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C9orf95 (NMRK1) (NM_001127603) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NMRK1
Synonyms: bA235O14.2; C9orf95; NRK1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225183 representing NM_001127603
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAAACATTTATCATTGGAATCAGTGGTGTGACAAACAGTGGCAAACAACACTGGCTAAGAATTTGC
 AGAAACACCTCCCAAATTCAGTGTGCATATCTCAGGATGATTTCTTCAAGCCAGAGTCTGAGATAGAGAC
 AGATAAAAATGGATTTTGCAGTACGATGTGCTTGAAGCACTTAACATGGAAAAATGATGTCAGCCATT
 TCCTGCTGGATGGAAGCGCAAGACTCTGTGGTATCAACAGACCAGGAAAGTCTGAGGAAATCCCA
 TTTAATCATCGAAGTTTTCTCTTTTAATTATAATACAAGGGTCTATCAGCCTCCAGACTCTCCGGG
 ATACTTTGATGGCCATGTGTGGCCATGTATCTAAAGTACAGACAAGAAATGCAGGACATCACATGGGAA
 GTTGTGTACCTGGATGGAACAAAATCTGAAGAGGACCTTTTTGCAAGTATATGAAGATCTAATACAAG
 AACTAGCAAAGCAAAGTGTGCAAGTACAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG225183 representing NM_001127603
 Red=Cloning site Green=Tags(s)

MKTFIIGISGVTNSGKTTLAKNLQKHLPNCSVISQDDFFKPESEIETDKNGFLQYDVLEALNMEKMMSAI
 SCWMESARHSVSTDQESAEIPIILIEGFLFNYNTRYVQPPDSPGYFDGHVWPMYLYKRYQEMQDITWE
 VVYLDGKSEEDLFLQVYEDLIQELAKQKCLQVTA

TRTRPLE - GFP Tag - V

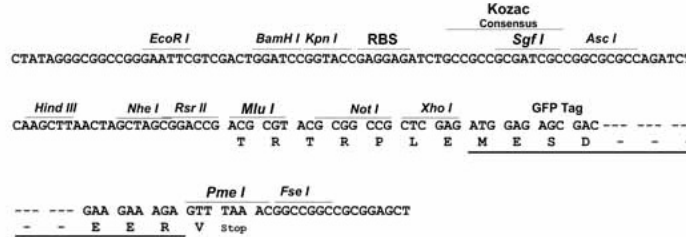
Restriction Sites: SgfI-MluI



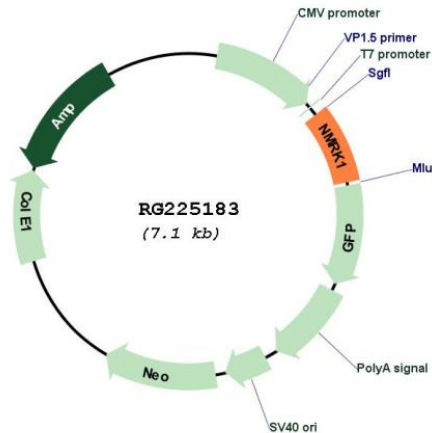
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Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001127603

ORF Size: 525 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:	<ol style="list-style-type: none">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_001127603.2</u>
RefSeq Size:	1147 bp
RefSeq ORF:	528 bp
Locus ID:	54981
UniProt ID:	<u>Q9NWW6</u>
Cytogenetics:	9q21.13
Protein Pathways:	Nicotinate and nicotinamide metabolism
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 (Bieganski and Brenner, 2004 [PubMed 15137942]).[supplied by OMIM, Mar 2008]