

Product datasheet for **RC204650**

Nuclear Factor 1 (NFIA) (NM_005595) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nuclear Factor 1 (NFIA) (NM_005595) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nuclear Factor 1
Synonyms:	BRMUTD; CTF; NF-I/A; NF1-A; NFI-A; NFI-L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC204650 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTATTCTCGCTCTGTCTACCCAGGATGAATTTTCATCCTTTTCATCGAAGCACTTCTGCCCCAGTGCC
 GAGCCTTTGCCTACACATGGTTCAACCTGCAGGCCGAAAACGAAAATACTTCAAAAAACATGAAAAGCG
 TATGTCAAAGAAGAAGAGAGAGCCGTGAAGGATGAATTGCTAAGTGAAAAACAGAGGTCAAGCAGAAG
 TGGGCATCTCGACTTCTGGCAAAGTTGCGGAAAGATATCCGACCCGAATATCGAGAGGATTTTGTCTTA
 CAGTTACAGGGAAAAACCTCCATGTTGTGTTCTTTCCAACCCAGACCAGAAAAGGCAAGATGCGAAGAAT
 TGACTGCCTCCGCCAGGCAGATAAAGTCTGGAGGTTGGACCTTGTATGGTGATTTTGTAAAGGTATT
 CCGCTGGAAGTACTGATGGCGAGCGCCTGTAAAGTCCCACAATGCTCTAATCCAGGGCTCTGTGTCC
 AACCCCATCACATAGGGGTTTCTGTTAAGGAAGCTGATTATATTTGGCATACTTTGTGCATGCAGCAGA
 TTCAAGTCAATCTGAAAGTCCCAGCCAGCCAAGTACGCTGACATTAAGGACCAGCCAGAAAATGGACAT
 TTGGGCTTCCAGGACAGTTTTGTACATCAGGTGTTTTAGTGTCAGTACTGAGTAGTAAGAGTGTCACAGA
 CACCAATAGTGCAGGAAGTGGCCAAAATTTTCTCTCTCAGATTTGGAAAGTTCTTCACTACAGCAT
 GAGTCCAGGAGCAATGAGGAGGTCTTACCAGCACATCTCTACGAGCTCCACAAAAGCGCCTCAAGTCT
 GTGGAGGATGAAATGGACAGTCTGGTGAAGGAGCCATTTATACAGGCCAAGGGCGCTCCCAGGAAGTG
 GCAGTCAGTCAAGTGGATGGCATGAAGTGGAGCCAGGAATGCCATCTCCAACCACACTGAAGAAGTCGGA
 GAAGTCTGGTTTACAGCAGCCCTCCCTTACAGACCTCCTCCCTGGGAACGGCGTTACACAGCATCAC
 CGACCTGTCAATTACAGGACCCAGAGCAAGTCCGCATGCAACACCATCGACTCTTCATTTCCCGACATCAC
 CCATTATCCAGCAGCCTGGGCCTACTTCTCACACCCAGCCATCCGCTATCACCCAGGAGCGTGAA
 AGAATTTGTCCAACCTGTCTGCCCTGATGCTGGTCAGCAGGCTGGACAGGTGGGGTTCTCAATCCCAAT
 GGGAGCAGCCAAGGCAAGGTGCACAACCCATTCCTTCCACCCCAATGTTGCCACCGCCACCGCCACCAC
 CGATGGCCAGGCCTGTGCCTCTGCCGTGCCAGACACAAAGCCTCCAACCACGTCAACAGAAGGAGGTGC
 AGCCTCCCCACGTCACCAATCTGGTACCTGGGATAAAAGTTGCAGCGTCCCACCATCCACCAGACAGA
 CCACCTGACCCCTTCTCAACTCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204650 protein sequence
 Red=Cloning site Green=Tags(s)

MYSPLCLTQDEFHPFIEALLPHVRAFAYTWFNLQARKRKYFKKHEKRMSKEEERAVKDELLSEKPEVKQK
 WASRLLAKLRKDIRPEYREDFVLTVTGKKPPCCVLSNPQKQKMRRIDCLRQADKVRDLVIMVILFKGI
 PLESTDGERLVKSPQCSNPGLCVQPHHIGVSVKELDLYLAYFVHAADSSQSESPSPSDADIKDQPENGH
 LGFQDSFVTSGVFSVTELVVRSQTPIAAGTGPNFSLSDLESSSYMSPGAMRRSLPSTSSSTKRLKS
 VEDEMDSPEEPFYTGQGRSPGSGSQSSGWHEVEPGMPSPTTLKSEKSGFSSPSPSQTSSLGTAFTQHH
 RPVITGPRASPHATPSTLHFPTSPIIQQPGPYFSHPAIRYHPQETLKEFVQLVCPDAGQQAGQVGLNPN
 GSSQGVHNPFLLPTMLPPPPPPMARPVPLPVPDTKPPTTSTEGGAASPTSPILVPGIKVAASHPPDR
 PPDPFSTL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6549_f08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_005595

ORF Size: 1494 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_005595.5](#)

RefSeq Size: 9403 bp

RefSeq ORF: 1497 bp

Locus ID: 4774

UniProt ID: [Q12857](#)

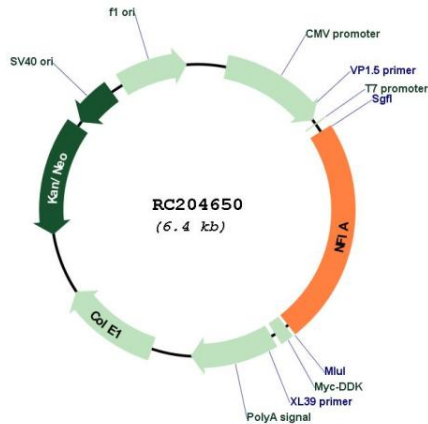
Cytogenetics: 1p31.3

Protein Families: Transcription Factors

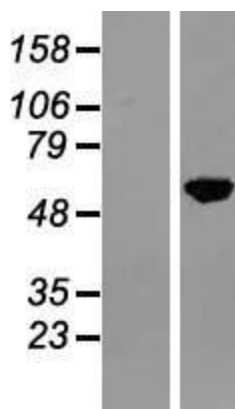
MW: 54.6 kDa

Gene Summary: This gene encodes a member of the NF1 (nuclear factor 1) family of transcription factors. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

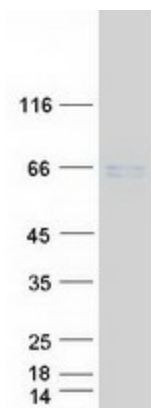
Product images:



Circular map for RC204650



Western blot validation of overexpression lysate (Cat# [LY417202]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204650 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NFIA protein (Cat# [TP304650]). The protein was produced from HEK293T cells transfected with NFIA cDNA clone (Cat# RC204650) using MegaTran 2.0 (Cat# [TT210002]).