

Product datasheet for **RG204650**

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:	TurboGFP
Symbol:	Nuclear Factor 1
Synonyms:	BRMUTD; CTF; NF-I/A; NF1-A; NFI-A; NFI-L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204650 representing NM_005595
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTATTCTCGCTCTGTCTACCCAGGATGAATTTTCATCCTTTTCATCGAAGCACTTCTGCCCCAGTGCC
 GAGCCTTTGCCTACACATGGTTCAACCTGCAGGCCGAAAACGAAAATACCTTCAAAAAACATGAAAAGCG
 TATGTCAAAGAAGAAGAGAGAGCCGTGAAGGATGAATTGCTAAGTGAAAAACAGAGGTCAAGCAGAAG
 TGGGCATCTCGACTTCTGGCAAAGTTGCGGAAAGATATCCGACCCGAATATCGAGAGGATTTTGTCTTA
 CAGTTACAGGGAAAAACCTCCATGTTGTGTTCTTTCCAACCCAGACCAGAAAAGGCAAGATGCGAAGAAT
 TGACTGCCTCCGCCAGGCAGATAAAGTCTGGAGGTTGGACCTTGTATGGTGATTTTGTAAAGGTATT
 CCGCTGAAAAGTACTGATGGCGAGCGCCTGTAAAGTCCCACAATGCTCTAATCCAGGGCTCTGTGTCC
 AACCCCATCACATAGGGGTTTCTGTTAAGGAAGCTGATTTATTTGGCATACTTTGTGCATGCAGCAGA
 TTCAAGTCAATCTGAAAGTCCCAGCCAGCCAAGTACGCTGACATTAAGGACCAGCCAGAAAATGGACAT
 TTGGGCTTCCAGGACAGTTTTGTACATCAGGTGTTTTTGTAGTGTACTGAGCTAGTAAGAGTGTCACAGA
 CACCAATAGTGCAGGAAGTGGCCAAAATTTTCTCTCTCAGATTTGGAAAGTTCTTCACTACAGCAT
 GAGTCCAGGAGCAATGAGGAGGCTTTTACCCAGCACATCTCTACGAGCTCCACAAGCGCCTCAAGTCT
 GTGGAGGATGAAATGGACAGTCTTGGTGAAGGAGCCATTTTATACAGGCCAAGGGCGCTCCCAGGAAGTG
 GCAGTCAGTCAAGTGGATGGCATGAAGTGGAGCCAGGAATGCCATCTCCAACCACTGAAGAAGTCGGA
 GAAGTCTGGTTTTCAGCAGCCCCCTCCCCTTACAGACCTCCTCCCTGGGAACGGCGTTACACAGCATCAC
 CGACCTGTCATTACAGGACCCAGAGCAAGTCCGCATGCAACACCATCGACTCTTCATTTCCCAGACATCAC
 CCATTATCCAGCAGCCTGGGCCTTACTTCTCACACCCAGCCATCCGCTATCACCCAGGAGCGTGA
 AGAATTTGTCCAACCTTGTCTGCCCTGATGCTGGTCAGCAGGCTGGACAGGTGGGGTTCCTCAATCCCAAT
 GGGAGCAGCCAAGGCAAGGTGCACAACCCATTCCTTCCACCCCAATGTTGCCACCGCCACCGCCACCAC
 CGATGGCCAGGCCTGTGCTCTGCCGTTGCCAGACACAAAGCCTCCAACCACTCAACAGAGGAGGTGC
 AGCCTCCCCACGTCACCAATCTGGTACTGGGATAAAAGTTGCAGCGTCCCACCATCCACCAGACAGA
 CCACCTGACCCCTTCTCAACTCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204650 representing NM_005595
 Red=Cloning site Green=Tags(s)

MYSPLCLTQDEFHPFIEALLPHVRAFAYTWFNLQARKRKYFKKHEKMSKEEERAVKDELLSEKPEVKQK
 WASRLLAKLRKDIRPEYREDFLTVTGKKPPCCVL SNPDQKQKMRRIDCLRQADKVVRLDLVMVILFKGI
 PLESTDGERLVKSPQCSNPGLCVQPHHIGVSVKELDLYLAYFVHAADSSQSESPSQPSDADIKDQPENH
 LGFQDSFVTSVGFVSVTELVVRSQTPIAAGTGPNFSLSDLESSYYSMSPGAMRRSLPSTSSTSSTKRLKS
 VEDEMDSPGEEPFTYTGQGRSPGSGSQSSGWHEVEPGMPSPTTLKKSEKSGFSSPSPSQTSSLGTAFTQHH
 RPVITGPRASPHATPSTLHFPTSPIIQQPGPYFSHPAIRYHPQETLKEFVQLVCPDAGQQAGQVGFLLNPN
 GSSQGVHNPFLPTPMLPPPPPPMARPVPLPVPDTPKPTTSTEGGAASPTSPILVPGIKVAASHHPDR
 PPDFSTL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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: 2684 bp

RefSeq ORF: 1497 bp

Locus ID: 4774

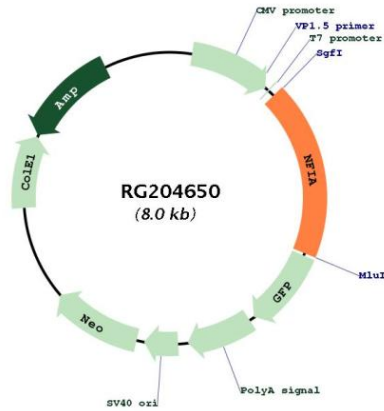
UniProt ID: [Q12857](#)

Cytogenetics: 1p31.3

Protein Families: Transcription Factors

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 RG204650