

Product datasheet for **RG205481**

RFX4 (NM_032491) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFX4 (NM_032491) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RFX4
Synonyms:	NYD-SP10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG205481 representing NM_032491
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGTGGGCTGCCTTCGAGGGTCTGAATTCTTCATCCAGAAGGCATTCAGATAGATTTCGAGATGCC
 CACTAAGCAGAAAATATCACGGAATGGTACCATTACTATGGCATTGCAGTGAAGAAAGCTCCCAATATTA
 TGATGTGATGATTCCAAGAAAGGAGCTGCCTGGGTGAGTGAGACGGGCAAGAAAGAAAGTGAAGCAACAG
 ACAGTGGCATATTCACCCCGGTCCAAACTCGGAACACTGCTGCCAGAATTTCCCAATGTCAAAGATCTAA
 ATCTGCCAGCCAGCCTGCCTGAGGAGAAGGTTTCTACCTTTATTATGATGTACAGAACACACTGTCAGAG
 AATACTGGACACTGTAATAAGAGCCAACTTTGATGAGGTTCAAAGTTTCTTCTGCACCTTTTGGCAAGGA
 ATGCCGCCACATGCTGCCTGTGCTGGGCTCCTCCACGGTGGTGAACATTGTCGGCGTGTGTGACTCCA
 TCCTCTACAAAGCTATCTCCGGGTGCTGATGCCACTGTGCTGCAGGCATTACCTGACAGCTTAACTCA
 GGTGATTCGAAAGTTTGCAAGCAACTGGATGAGTGGCTAAAAGTGGCTCTCCAGACCTCCAGAAAAC
 TTGCGAAAACATCAAGTTCGAATTGTCGAGAAGTTCTCCCAAATTCAGACGGCAACATCACTAAATC
 ATCTCTGCCAGGCATCTCGAACAGTGATCCACAGTGCAGACATCACGTTCCAAATGCTGGAAGACTGGAG
 GAACGTGGACCTGAACAGCATCACCAAGCAAACCTTTACACCATGGAAGACTCTCGCGATGAGCACCGG
 AAACCTCATACCCAATTATACAGGAGTTTGACCATCTCTTGGAGGAGCAGTCTCCCATCGAGTCTTACA
 TTGAGTGGCTGGATACCATGGTTGACCGCTGTGTTGTGAAGGTGGCTGCCAAGAGACAAGGGTCTTGA
 GAAAGTGGCCAGCAGTTCCTCTGATGTGGTCTGTTTCGGCACAAGGGTATCCGGGACATGACCTTG
 CACAGCGCCCCAGCTTCGGGTCTTTTCACCTAATTCACCTAATGTTTGTGACTACGTGCTCTACCTGT
 TAGAATCTCTGCACCTGTCAGGAGCAACCAATGAGCTCATGCGAGCCATGAAGGGAGAAGGAAGCACTGC
 AGAAGTCCGAGAAGAGATCATCTTGACAGAGGCTGCCGCACCAACCCCTTACCAGTGCCATCGTTTTCT
 CCAGCAAAATCTGCCACATCTGTGGAAGTGCCACCTCCCTCTTCCCTGTAGCAATCTTCCCCTGAGT
 ACACTGGCCTCAGCACTACAGGAGCAATGCAGTCTTACACGTGGTCTCTAACATACACAGTGACGACGGC
 TGCTGGTCCCCAGCTGAGAACTCCCAACAGCTGCCCTGTATGAGGAACACTCATGTGCCTTCTTCTCC
 GTCACACACAGGATACCAGTTTATCCCCACAGAGGAACATGGATACACGGGAAGCTATAACTATGGGA
 GCTATGGCAACCAGCATCCTCACCCATGCAGAGCCAGTATCCGGCCCTCCCTCATGACACAGCTATCTC
 TGGCCACTCCACTATGCCCTTACCACAGGAGCTCTGCACAGTACCCTTTAATAGCCCCACTTCCCGG
 ATGGAACCTTGTGATGAGCAGTACTCCAGACTGCATCCTACCCAGTCACTCCCGCTGGCCAGAGG
 TGCCTCAGCCAACAGTGTACACAAGCCGTCTGTGATTCTGCGAGGTACGGAAACTCTAGTGACAT
 GTATACCTCTGACAACGCGCAGGAATTCTGAATATGAGCACATGCAACACTTCTCGCTTTGCTTAC
 ATCAACGGAGAGGCTCTACAGGATGGCTAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG205481 representing NM_032491
 Red=Cloning site Green=Tags(s)

MNWAFFGGSEFFIPEGIQIDSRCLSRNITWEYHYGGIYKVESSQYDVMYSKKGAAWVSETGKKEVSKQ
 TVAYSPRKLGTLLPEFPNVKDLNLPASLPEEKVSTFIMMYRTHCQRILDVIRANFDEVQSFLHFQWQ
 MPPHMLPVLGSSTVVNI VGVCDILYKAISGVLMPVLQALPDSLTVQVIRKFAKQLEWLVKVALHDLPEN
 LRNIKIFELSRFSQILRRQTSLNHL CQASRTVIHSADITFQMLEDRNVDLNSITKQTL YTMEDSRDEHR
 KLITQLYQEFDHLLLEEQSPIESYIEWLDTMVDRCVVKVAAKRQGSLLKVAQQFLLMWSCFGTRVIRDML
 HSAPSFSGFHLIHLMFDDYVLYLLESLHCQERTNELMRAMKGEGSTAEVREEIILTEAAAPTSPVPSFS
 PAKSATSVEVPPSPVSNPSPEYTGSTTGAMQSYTWSLTYVTVAAGSPAENSQQLPCMRNTHVPSSS
 VTHRIPVYPHREEHGYTGSYNYGSYGNQHPHPMQSQYPALPHDTAISGPLHYAPYHRSSAQYFNSPTSR
 MEPCLMSSTPRLHPTVTPRWEVPSANTCYTSPSVHSARYGNSSDMYTPLTTRRNSEYEHMQHFPFGAY
 INGEASTGWAK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_032491

ORF Size: 1923 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_032491.3](#), [NP_115880.2](#)

RefSeq Size: 3381 bp

RefSeq ORF: 1926 bp

Locus ID: 5992

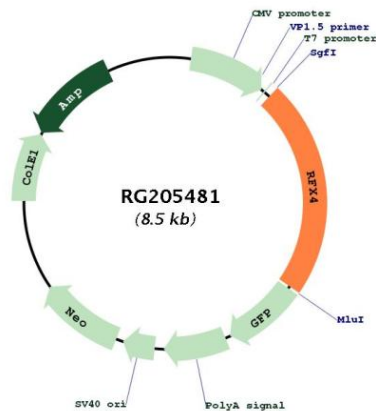
UniProt ID: [Q33E94](#)

Cytogenetics: 12q23.3

Protein Families: Transcription Factors

Gene Summary: This gene is a member of the regulatory factor X gene family, which encodes transcription factors that contain a highly-conserved winged helix DNA binding domain. The protein encoded by this gene is structurally related to regulatory factors X1, X2, X3, and X5. It has been shown to interact with itself as well as with regulatory factors X2 and X3, but it does not interact with regulatory factor X1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2011]

Product images:



Circular map for RG205481