

## Product datasheet for **RC223334**

### **RFX4 (NM\_213594) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RFX4 (NM_213594) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RFX4
Synonyms:	NYD-SP10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>RC223334 representing NM\_213594  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGCATTGTGGTTACTGGAGGAACCCGACATGGATTCCACAGAGAGCTGGATTGAAAGATGTCTCAACG  
AAAGTGAAAACAACGTTATTCCAGCCACACATCTCTGGGAATGTTTCTAATGATGAAAATGAGGAAAA  
AGAAAATAATAGAGCATCCAAGCCCCACTCCACTCCTGCTACTCTGCAATGGCTGGAGGAGAACTATGAG  
ATTGCAGAGGGGCTGTCATCCCTCGCAGTGCCCTCTATATGCATTACCTGGATTCTGCGAGAAGAATG  
ATACCCAACTGTCAATGCTGCCAGCTTTGAAAGATCATAAGGCAGCAGTTTCTCAGTTAACCACCAG  
AAGACTCGGGACCCGAGGACAGTCAAAGTACCATTACTATGGCATTGCAGTAAAAGAAAGCTCCCAATAT  
TATGATGTGATGATTCCAAGAAAGGAGCTGCCTGGGTGAGTGAACGGCAAGAAAGAAGTGAAGCAAC  
AGACAGTGGCATATTCACCCCGTCCAACTCGGAACACTGCTGCCAGAATTTCCAATGTCAAAGATCT  
AAATCTGCCAGCCAGCCTGCCTGAGGAGAAGGTTTCTACCTTTATATGATGTACAGAACACACTGTCAG  
AGAATACTGGACTGTAAATAAGAGCCAACCTTTGATGAGGTTCAAAGTTTCTTCTGCACTTTTGGCAAG  
GAATGCCGCCCCACATGCTGCCTGTGCTGGGCTCCTCCACGGTGGTGAACATTGTCGGCGTGTGTGACTC  
CATCCTCTACAAAGCTATCTCCGGGTGCTGATGCCCACTGTGCTGCAGGCATTACCTGACAGCTTAACT  
CAGGTGATTGAAAGTTTGCCAAGCAACTGGATGAGTGGCTAAAAGTGGCTCTCCACGACCTCCCAGAAA  
ACTTGCGAAACATCAAGTTCGAATTGTCGAGAAGGTTCTCCAAATCTGAGACGGCAAACATCACTAAA  
TCATCTCTGCCAGGCATCTGAACAGTGATCCACAGTGCAGACATCACGTTCAAATGCTGGAAGACTGG  
AGGAACGTGGACCTGAACAGCATACCAAGCAAACCTTTACACCATGGAAGACTCTCCGATGAGCACC  
GGAAACTCATACCCAATTATATCAGGAGTTTGACCATCTCTGGAGGAGCAGTCTCCGATCGACCTA  
CATTGAGTGGCTGGATACCATGGTTGACCGCTGTGTTGGAAGGTGGCTGCCAAGAGACAAGGGTCTTTG  
AAGAAAGTGGCCAGCAGTTCCTCTTGATGTGGTCTGTTTCGGCACAAGGGTGTCCGGGACATGACCT  
TGACAGCGCCCCAGCTTCGGGTCTTTTACCTAATCACTTAATGTTTGATGACTACGTGCTCTACCT  
GTTAGAATCTCTGCACTGTGAGGAGCGGCCAATGAGCTCATGCGAGCCATGAAGGGAGAAGGAAGCACT  
GCAGAAGTCCGAGAAGAGATCATCTTGACAGAGGCTGCCGCACCAACCCCTTACCAGTGCATCGTTTT  
CTCCAGCAAAATCTGCCACATCTGTGGAAGTGCCACCTCCCTCTCCCCTGTTAGCAATCCTTCCCCTGA  
GTACACTGGCCTCAGCACTACAGGAGCAATGCAGTCTTACACGTGGTCTTAACATACACAGTGACGACG  
GCTGCTGGTCCCAGCTGAGAACTCCCAACAGCTGCCCTGTATGAGGAACACTCATGTGCCTTCTCCT  
CCGTACACACAGGATACCAATTTATCCCCACAGAGAGGAACATGGATACACGGGAAGCTATAACTATGG  
GAGCTATGGCAACCAGCATCCTCACCCATGCAGAGCCAGTATCCGGCCCTCCCTCATGACACAGCTATC  
TCTGGGCCACTCCACTATGCCCTTACCACAGGAGCTCTGCACAGTACCCTTTTAAAGCCCCACTTCCC  
GGATGGAACCTTGTGATGAGCAGTACTCCAGACTGCATCCTACCCAGTCACTCCCCGCTGGCCAGA  
GGTGCCCTCAGCAACACGTGCTACACAAGCCGTCTGTGCAATCTGCGAGGTACGGAACCTCTAGTGAC  
ATGTATACACCTTGACAACCGCAGGAATCTGAATATGAGCACATGCAACACTTCTCTGGCTTTGCTT  
ACATCAACGGAGAGGCCCTACAGGATGGGCTAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC223334 representing NM\_213594  
Red=Cloning site Green=Tags(s)

MHCGLLEEPDMDSTESWIERCLNESENKRYSSHTSLGNVSNDENEEKENNRASKPHSTPATLQWLEENYE  
 IAEGVCIPRSALYMHYLDFCEKNDTQPVNAASFVKIIRQQFPQLTTRRLGTRGQSKYHYGYIAVKESSQY  
 YDVMYSKKGAAWVSETGKKEVSKQTVAYSRSLKGLTLLPEFPNVKDLNLPASLPEEKVSTFIMMYRTHCQ  
 RILDVTIRANFDEVQSFLLHFVWQMPHMLPVLGSSTVNVIVGVCDLILYKAIISGLMPTVLQALPDSL  
 QVIRKFAKQLDEWLKVALHDLPENLRNIKFELESRRFSQILRRQTSLNHLCCQASRTVIHSADITFQMLEDW  
 RNVDLNSITKQTLTYTMEDSRDEHRKLTITQLYQEFDHLLLEEQSPIESYIEWLDTMVDRCVVKAQRQGS  
 LKKVAQQFLMWSFCGTRVIRDMLHSAPSFSGFHLIHLMFDDYVLYLLESLHCQERANELMRAMKGE  
 GSTAEVREEIILTEAAAPTPSPVPSFSPAKSATSVEVPPPSSPVSNPSPEYGLSTTGAMQSYTWSLTYVT  
 TAAAGSPAENSQQLPCMRNTHVPSVSVTHRIPVYPHREEHGYTGSYNYGSYGNQHPHPMQSQYALPHD  
 TAI SGPLHYAPYHRSSAQYFNSPTSRMEPCLMSSTPRLHPTVTPRWPEVPSANTCYTSPSVHSARYGNSS  
 MYTPLTTRRNSEYEHMQHFPGFAYINGEASTGWAK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_213594

**ORF Size:** 2205 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\\_213594.3](#)

**RefSeq Size:** 3623 bp

**RefSeq ORF:** 2208 bp

**Locus ID:** 5992

**UniProt ID:** [Q33E94](#)

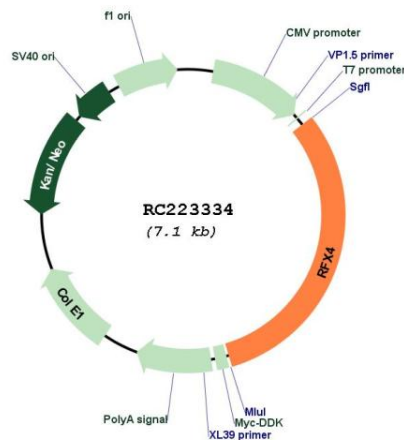
**Cytogenetics:** 12q23.3

**Protein Families:** Transcription Factors

**MW:** 83.2 kDa

**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 RC223334