

Product datasheet for **RC202368**

RFX5 (NM_000449) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFX5 (NM_000449) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RFX5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC202368 representing NM_000449
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGAAGATGAGCCTGATGCTAAGAGCCCCAAGACTGGGGGAAGGGCCCCCAGGTGGTGCTGAGG
 CTGGGGAACCTACCACCTTCTTCAGAGGCTCCGAGGTACCATTTCCAAGGCCGTGCAGAACAAAGTAGA
 GGGGATCCTGCAAGATGTACAGAAATTTCTGACAATGACAAGCTGTATCTCTACCTTCAGCTCCCTCA
 GGACCCACTGGAGACAAAAGCTCAGAGCCAAGTACACTGAGCAATGAGGAGTACATGTATGCCTATA
 GGTGGATCCGCAACCACCTGGAAGAGCACACTGACACCTGTCTGCCAAAGCAAAGTGTATGATGCCTA
 TCGGAAGTACTGTGAGAGTCTTGCTGTGCGGCCACTCAGCACAGCCAACCTTTGGCAAGATCATCAGA
 GAGATCTCCCTGACATCAAAGCTCGAAGGCTTGGTGGCCGGGCCAGTCCAAATATTGCTACAGTGGCA
 TAAGGAGGAAGACCTTGGTGTCTATGCCACCCCTGCCTGGACTTGACCTAAAGGGTCTGAGAGTCCAGA
 AATGGGCCAGAAGTAACCCAGCACCTCGAGATGAAGTGGTGGAGGCAGCGTGTGCCCTGACCTGTGAC
 TGGGCAGAGCGGATCCTGAAACGGTCTTCAGTCCATCGTTGAGGTGCGCCGCTTCTCTGCTACAGCAGC
 ATCTCATCTCTGCCCAGTCTGCACATGCCCATGTGCTTAAGGCCATGGGGCTTGCTGAAGAGGACGAACA
 TGCACCTCGGGAACGGTCATCTAAACCAAAGAATGGTTTAGAGAACCCAGAGGGTGGAGCCACAAGAAG
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 TACTGTTTCAAAGGAGGAAGGGCCCCGGTCCAGCATAACAAAGAAGCAGAAGATAAAATCCCTTG
 GTCCTCAAAGTGAAGTGTATCAAGGGCAGCAGAAGCCAAAAGGAGGCTTTTCTTTGGCAAAGGGAG
 AGGTAGACACTGCACCACAGGTAATAAAGACTTAAAGGAGCATGTGCTCAAAGTCTCTATCCCAGGA
 GCATAAAGACCCAAAAGCAACACCCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202368 representing NM_000449
 Red=Cloning site Green=Tags(s)

MADEPDAKSPKTGGRAPPGAEAGEPTLLQRLRGTISKAVQNKVEGILQDVQKFSNDKLYLYLQLPS
 GPTTGDKSSEPSTLSNEEYMYAYRWIRNHLEHTDCLPKQSVYDAYRKYCESLACCRPLSTANFGKIIR
 EIFPDIKARRLGGRGQSKYCYSGIRKTLVSMPLPLGLDLKGSESPMGPEVTPAPRDELVEAACALTC
 WAERILKRSFSSIVEVARFLLQHLISARSAHAVLKMGLAEDEHAPRERSKPKNGLENPEGGAHKK
 PERLAQPPKDLEARTGAGPLARGERKKSVESSAPGANNLQVNLVARLPLLLPRAPRSLIPPIVSPPI
 LAPRLSSGALKVATLPLSSRAGAPPAAVPIINMILPTVPALPGPGPGRAPPGLTQPRGTENREVGIG
 GDQGPDKGVKRTAEVPVSEASGQAPPAKAAKQDIEDTASDAKRKRGRPRKSSGSGERNSTPLKSAAM
 ESAQSSRLPWETWGSSEGNASAGGAERPGMGEAEKGAVLAQQQGDGTVSKGGRGPGSQHTKEAEDIPL
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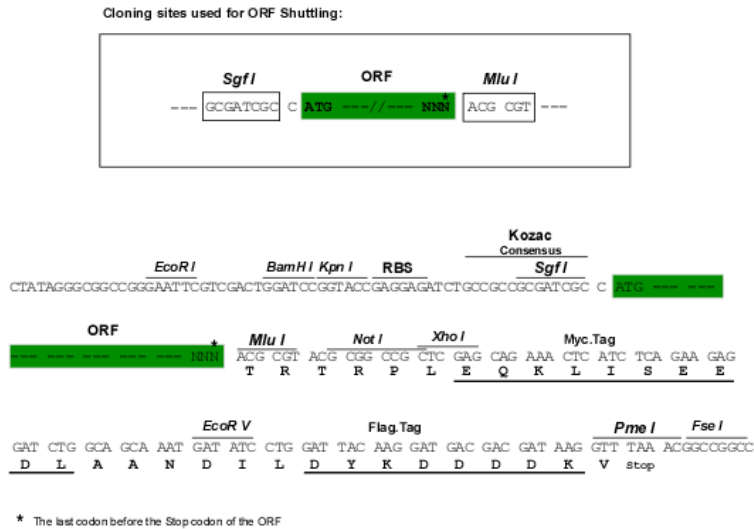
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2917_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000449

ORF Size: 1848 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_000449.3](#), [NP_000440.1](#)

RefSeq Size: 3618 bp

RefSeq ORF: 1851 bp

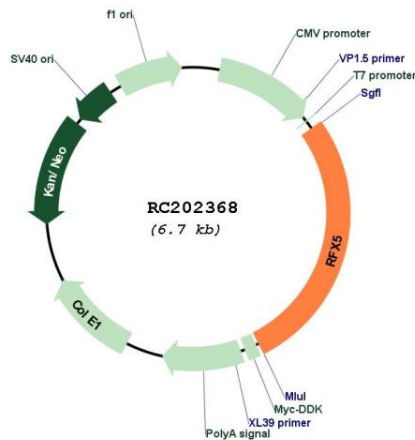
Locus ID: 5993

UniProt ID: [P48382](#)

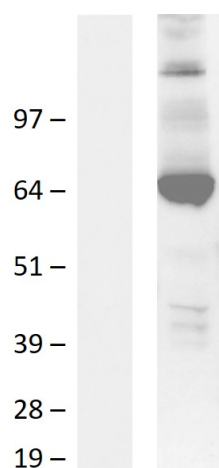
Cytogenetics: 1q21.3
Domains: RFX_DNA_binding
Protein Families: Transcription Factors
Protein Pathways: Antigen processing and presentation, Primary immunodeficiency
MW: 65.1 kDa

Gene Summary: A lack of MHC-II expression results in a severe immunodeficiency syndrome called MHC-II deficiency, or the bare lymphocyte syndrome (BLS; MIM 209920). At least 4 complementation groups have been identified in B-cell lines established from patients with BLS. The molecular defects in complementation groups B, C, and D all lead to a deficiency in RFX, a nuclear protein complex that binds to the X box of MHC-II promoters. The lack of RFX binding activity in complementation group C results from mutations in the RFX5 gene encoding the 75-kD subunit of RFX (Steimle et al., 1995). RFX5 is the fifth member of the growing family of DNA-binding proteins sharing a novel and highly characteristic DNA-binding domain called the RFX motif. Multiple alternatively spliced transcript variants have been found but the full-length natures of only two have been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202368



Western blot validation of overexpression lysate (Cat# [LY422455]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC212448] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).