

Product datasheet for **SC119868**

RFX5 (NM_000449) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFX5 (NM_000449) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFX5
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000449, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGAAGATGAGCCTGATGCTAAGAGCCCCAAGACTGGGGGAAGGGCCCCCCCCAGGTGGTGCTGAGG
CTGGGGAACCTACCACCTTCTTCAGAGGCTCCGAGGTACCATTTCCAAGCCGTCAGAACAAAGTAGA
GGGGATCCTGCAAGATGTACAGAAATTTCTGACAATGACAAGCTGTATCTCTACCTTCAGCTCCCCCTCA
GGACCCACCACTGGAGACAAAAGCTCAGAGCCAAGTACACTGAGCAATGAGGAGTACATGTATGCCTATA
GGTGGATCCGCAACCACCTGGAAGAGCACACTGACACCTGTCTGCCAAAGCAAAGTGTATGATGCCTA
TCGGAAGTACTGTGAGAGTCTTGCTGTGCGGCCCACTCAGCACAGCCAACCTTGGCAAGATCATCAGA
GAGATCTTCCCTGACATCAAAGCTCGAAGGCTTGGTGGCCGGGGCCAGTCCAAATATTGCTACAGTGGCA
TAAGGAGGAAGACCTTGGTGTCTATGCCACCCCTGCCTGGACTTGACCTAAAGGGTTCTGAGAGTCCAGA
AATGGGCCCAGAAGTAACCCAGCACCTCGAGATGAACTGGTGGAGGCAGCGTGTGCCCTGACCTGTGAC
TGGGCAGAGCGGATCCTGAAACGGTCTTCAGTCCATCGTTGAGGTGCGCCGCTTCTGCTACAGCAGC
ATCTCATCTGCCCCGATCTGCACATGCCCATGTGCTTAAAGCCATGGGGCTTGTGAAGAGGACGAACA
TGCACCTCGGGAACGGTCATCTAAACCAAAGAATGGTTTAGAGAACCAGAGGGTGGAGCCACAAGAAG
CCAGAGAGACTGGCCAGCCTCCTAAGGATCTGGAAGCCGAAGTGGGGCCGGTCTCTCGCACGTGGAG
AGCGGAAGAAGAGTGTAGTTGAGAGCTCGGCCCAAGGACCAATAACCTGCAGGTTAATGCCCTAGTGGC
TCGGCTGCCTCTGCTCTTCCCGGGCCCTCGCTCAATTCGGCCAATCCCAGTCTCTCCACCTATT
CTGGCCCCCAGGCTTCTTCAGGTGCCCTGAAAGTGGCTACACTGCCTCTGTCTAGTAGGGCCGGGGCAC
CCCCAGCAGCTGTGCCATCATTAAACATGATCTTACCAACTGTTCTGCTTTCCTGGACCTGGACCTGG
GCCTGGCGGAGCTCCACCTGGGGGACTCACTCAGCCCCGGGGCACAGAGAACAGAGAGTGGCATTAGGT
GGTGACCAAGGACCACATGACAAGGGTGTCAAGAGGACAGCTGAAGTACCTGTGAGTGAGGCCAGTGGGC
AGGCTCCACCAGCTAAAGCAGCAAAAGCAGGATATAGAGGATACAGCAAGTATGCAAAAAGGAAAACGGGG
GCGCCCTCGAAAAAAGTCAGGTGGAAGTGGGAAAGGAATTCTACCCCTCTCAAGTCAGCAGCTGCCATG
GAATCTGCCCAGTCTCAAGGTTACCATGGGAGACATGGGGCTCAGGAGGGGAAGGCAACTCAGCTGGAG
GGGCAGAGAGGCCAGGGCCAATGGGAGAGGCTGAAAAGGGGGCAGTACTTGCCCAGGGTCAGGGAGATGG
TACTGTTTCAAAGGAGGAAGGGGCCCGTTCCAGCATAACCAAAGAAGCAGAAGATAAAATTCCTTG
GTCCCCCTCAAAGTGAGTGTATCAAGGGCAGCAGAAGCCAAAAGGAGGCTTTTCTTTGGCAAAGGGAG
AGGTAGACTGCACCACAGGTAAATAAGACTTAAAGGAGCATGTGCTTCAAAGTTCCTATCCCAGGA
GCATAAAGACCCAAAAGCAACCCCCATGA
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**5' Read Nucleotide
Sequence:**

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>OriGene 5' read for NM_000449 unedited
TGTTCAAATTTGTATACGACTCACTATAGGCGCCGCGAATTCGCACGAGGNAGAACTT
GGGCCAGTTTTTTTTCCAGCCTAGAAGGCAGAATATGTTCTGATCCTTTCTGACCTCCC
AGGCATATGCAATGTTTTCCAGATTTAGGAGACTTCAGAAAGGTGGGCAGATAGAATGG
AGATGGCAAAGATCTCTTTGGGCATATATGGGCCTGGCGAAGTAAATGGAATAATTTCTAA
TTTTCGGAGAAGGCAAGTGCCTCATGCCGGGATGGCAGAAGATGAGCCTGATGCTAAGA
GCCCAAGACTGGGGGAAGGGCCCCCCCCAGGTGGTGTGAGGCTGGGGAACCTACCACCC
TTCTTCAGAGGCTCCGAGGTACCATTTCCAAGCCGTCAGACAACAAAGTAGAGGGGATCC
TGCAAGATGTACAGAAATTTCTGACAATGACAAGCTGTATCTCTACCTTCAGCTCCCCT
CAGGACCACCACTGGAGACAAAAGCTCAGAGCCAAGTACACTGAGCAATGAGGAGTACA
TGTATGCCTATAGGTGGATCCGCAACCCTGGAAGAGCACACTGACACCTGTCTGCCAA
AGCAAAGTGTATGATGCCTATCGGAAGTACTGTGAGAGTCTTGCTGTGGCCGCCAC
TCAGCACAGCCAACCTTGGCAAGATCATCAGAGAGATCTTCCCTGACATCAAAGCTCGAA
GGCTTGGTGGCCGGGGCCAGTCCAAATATTGCTACAGTGGCATAAAGAGGAAGACCTTGG
TGTCTATGCCACCCCTGCCTGGACTTGACCTANAGGTTCTGAGAGTCCAGAAATGGGCC
AGAAGTACCCCGCACCTCGAGATGAACTGGTGGGAGCAGCGTGTGCCCTGACTGTGACT
GGGCAGAGCGGATCTCGAA
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000449 unedited GGGGGGGGGGANAAANNNGANAANCTATTAACCCCGGCCGGTCATCTCNCGCCTATTC TATGGGTTTCACTCAAGACCCAGGGTATCAAGCTGCAAAGGTCAGAAGGCAGCAACCAGG TACTAAGTAGACTGGGTGACTCAGCTGTCTGTACAGAGGAGAATGGACTTCCTTAGGAAA AGAATAGCCAAATGAGAAGCAAGTGCAAAGAAGGCCTCTACTAGGCAAAGTTAACGTAGG GATATAAACACTCTTCCCACAGACCTGTATCATGGGGGTGTTGCTTTTGGGTCTTTATG CTCCTGGGATAAGGAACCTTTGAAGCACATGCTCCTTTAAGTCTTTATTACCCTGTGGTGC AGTGTCTACCTCTCCCTTTGCCAAAGGAAAAGCCTCCTTTTGGCTTCTGCTGCCCTTGAT GACACTCACTTTTGAGGGGACCAAGGGAATTTTATCTTCTGCTTCTTTGGTATGTGGGA ACCGGGGCCCTTCTCCTTTGGAAACAGTACCATTTCCCTGACCCTGTGCAAGTACTGC CCCCTTTTCCAGCTCTCCATTGGCCCTGGCCTTTATTTCCCTCCAGCTGAACCTGCTTC CCCTTCTGAGCCCATGTCTTCCATGGTAACCTTGAGGACTGGGCAGATTTCCATGGCAG CTGCTGACTTGAGAGGGGTAGAATTTCTTTCCCCTTCCACCTGACTTTTTCCGAGGGC GCCCCGATTACTTTTGGCTTCACTTGTGTATCCTCTATTTCCCTGTCTTGCCGCTTTAT ATGGTGGGAGCCTGGCCATTGGCTCTCATTACCAGGACTTATCCTGTCTTTTGTCCACC CTTTACATGTGGCCCTTTGTTCCACCTATCCCACACTCCTGTTCTTCTGTGCNCCCC GGCCTTATAGGAGTTCCTCAGTGGGCAGCTGTTCTATCCCACGTTCTGGTCTATAT
Restriction Sites:	NotI-NotI
ACCN:	NM_000449
Insert Size:	2440 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
RefSeq:	NM_000449.3 , NP_000440.1
RefSeq Size:	3618 bp
RefSeq ORF:	1851 bp
Locus ID:	5993
UniProt ID:	P48382
Domains:	RFX_DNA_binding
Protein Families:	Transcription Factors
Protein Pathways:	Antigen processing and presentation, Primary immunodeficiency

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]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein.