

## Product datasheet for **SC124095**

### **RFX2 (NM\_000635) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	RFX2 (NM_000635) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFX2
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_000635, the custom clone sequence may differ by one or more nucleotides

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ATGCAGAATTCGAGGGTGGAGCGGATTCGCCAGCGTCCGTGGCTCTGCGTCCCTCGGCGGCAGCCCCGC
CTGTGCCAGCCTCCCCGAGAGGGTGTGGTCCAGGCAGCCAGCTCCAATCCCAAAGGGGCCAGATGCA
GCCGATCTCCCTCCCAGAGTTCAGCAGGTACCCAGCAGGTGCAGCCGGTGCAGCACGTGTATCTTGCC
CAGGTGCAGTACGTGGAAGGGGGAGACGCGTCTACACCAATGGAGCCATACGAACAGCCTACACCTACA
ACCCCGAGCCTCAGATGTACGCCCCAGCAGCACGGCTTCTTACTTCGAGGCCCCAGGCGGTGCCAGGT
GACCGTGGCAGCCTCGTCCCCGCCAGCGGTCCCCTCCCACAGCATGGTGGGCATCACCATGGATGTCGGG
GGGAGCCCCATCGTCTCCAGCGCGGGAGCCTATCTCATCCAGGGGGGATGGACAGCACCAGACTCCC
TGGCCACACCTCCCGCTCATCGCCGCCACGCTTGAAATGGCGATTGAAAACCTCAAAAAAGCGAAGG
AATCACATCACACAAAAGCGTTTACTCAACAGCCATCTCCAGTGGCTGTTGGATAATTATGAAACAGCG
GAAGGTGTGAGTCTCCCAGAAGTCTCTTTACAACCACTACCTTCGGCACTGCCAGGAGCACAAAGTAG
ACCCAGTGAACGCCCGCTCCTTCGGGAACTGATCCGTTCTGTGTTTATGGGGCTGAGAACGCGCGGCT
GGGCACCAAGGGCAACTCGAAGTACCATTACTATGGGATTCGTCTGAAGCCGGACTCACCACTGAACCGG
CTGCAGGAGGACACGCAGTACATGGCCATGCGGCAGCAGCCCATGCACCAGAAGCCAGGTACCGGCCAG
CCCAGAAGACGGACAGCCTCGGGGACAGCGGCTCCCACAGCGGCCTGCACAGCACTCCGGAACAGACCAT
GGCCGTGCAGAGCCAGCACCACCAGCAGTACATAGATGTCTCCACGTCTTCCCCGAGTTCACAGCGCC
GACCTGGGCAGCTTCTGCTGCAGGACGGCGTCACTGCACGACGTCAAGGCCCTGCAGCTGGTGTACA
GACGGCACTGCGAGGCAACTGTAGATGTGGTGTGAACCTCCAGTCCACTACATCGAGAAGCTGTGGCT
CTCCTTCTGGAACCTAAGGCCCTCCTCCAGCGACGGCCCCACCTCTTCTCCTGCCAGTGACGAAGACCCC
GAGGGCGCGTCTGCCAAGGACAAGCTTATCTCCCTGTGTAGTGCAGCCCCATCCTCAGGTGGATGA
GGAGCTGCGACCACATCCTCTACCAGGCGCTGGTGGAGATTCTCATCCCCGACGTGCTGAGCCCGTCCC
CAGTACCTTGACACAGGCCATCCGTAACCTTTGCCAAGAGCTTGAAGGCTGGTTGACAAATGCCATGAGT
GACTTCCCACAACAGGTATCCAGACCAAGGTGGGCGTGTGAGTGCCTTCGCCAGACGTGCGGCGCT
ACACGTCCCTCAACCACCTGGCGCAGGCGGCCCGGGCGGTGCTGCAGAACACGTCCAGATCAACCAGAT
GCTCAGCGACCTCAACCAGCTGGACTTTGCCAACGTGCAGGAGCAGGCCTCGTGGGTGTGCCAGTGCAG
GAGAGTGTGGTGCAGCGGCTGGAGCAGGATTTCAAGCTGACCCTGCAGCAGCAGAGCTCCCTGGACCAGT
GGCCAGCTGGCTGGACAGTGTGGTCAACCAGGCTCCTGAAGCAGCATGCCGCGAGCCCCAGCTTCCCCAA
GGCCGCCCGGCGAGTCTTGTGAAATGGTCTTTTACAGCTCCATGGTGTCCGGGACCTGACCCTGCGC
AGCGCTGCCAGCTTCGGCTCCTTCCACCTCATCCGCTGCTCTACGACGAGTACATGTTCTACCTGGTGG
AGCACCGCGTTCGCGGAGGCCACCGGAGAGACGCCGATCGTGTGATGGGAGAGTTCAACGATCTCGCCTC
TCTGTGCTGACGCTGCTCGACAAAGATGACATGGGCGATGAGCAGCGTGGCAGCGAGGCGGGCCAGAC
GCCCGCAGCCTGGGTGAGCCCCTGGTAAAGCGGGAGCGCAGTGACCCCAACCACTCCCTGCAGGGCATCT
AG
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000635 unedited            TAACGTGAGATTTTGTATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGCTTAC            CAACGGGGACCAACACGCAGCAGCCGCTGCCGCCCGCGGGAGCCGCTGCCCGAACTCC            CGGCCCGAACTCCAGACCTGAGCATGCAGAATTCGAGGGTGGAGCGGATTCGCCAGCGT            CCGTGGCTCTGCGTCCCTCGGCGGCAGCCCCGCTGTGCCAGCCTCCCCGAGAGGGTGT            TGGTCCAGGCAGCCAGCTCCAATCCCAAAGGGGCCAGATGCAGCCGATCCCTCCCCA            GAGTTCAGCAGGTACCCAGCAGGTGCAGCCGGTGCAGCACGTGTATCCTGCCAGGTGC            AGTACGTGGAAGGGGAGACGCCGTCTACACCAATGGAGCCATACGAACAGCCTACACCT            ACAACCCCGAGCCTCAGATGTACGCCCCAGCAGCACGGCTTCTTACTTCGAGGCCCCAG            GCGGTGCCAGGTGACCGTGGCAGCCTCGTCCCGCCAGCGGTCCCCTCCACAGCATGG            TGGGCATCACCATGGATGTGGGGGGAGCCCCATCGTCTCCAGCGCGGGAGCCTATCTCA            TCCACGGGGGGATGGACAGCACCAGACACTCCCTGGCCACACCTCCCGCTCATCGCC            GGCACGCTTGAATGGCGATTGAAAACCTCCAAAAAAGCGAAGGAATCACATCACAA            AAGCGTTTACTCAACAGCCATCTCCGGTGGCTGTTGNATAATTGAACCAGCGGAGGT            GTGAGTCTCCCCAGAAGTTCTTTTTACAACCTTACCTTGGCACTGCCAGGAGCCAGCT            TAACCCAGGGACCCCGCTCTTTGGGAACTGATCCCGTTCTGTGTT</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000635 unedited            GGTATAGCACTGGGGAGGGGTCACAGGGATGCCACCCGGGATCTGTTGAGAAACAGCTA            TGACTTTTGCCGCAATCTATAGTCNAGACGTTTTTTTTTTTTTTTTTTTATACTGCAATG            TACACATTCATAAGAAAAGTTCTAATAACAATTAGCGCACAAAATATTGGTATAAAT            TTTTCCAAAAAGAGAAAATATTGCATTTTCGTTAGAAATCGCGTCTGGGCCGAGGCTCG            TCTTTCTCTCTGCAATTGGTTTGGGGACAGAATCCAGCACGCAGCTGTCCAATGCGAG            CGGCTACGTGTTTCCATGGAGACAACTTGGTGTCTCAAGTTCAGGGCTTCGAAAGTCCC            GAATATTTGTTTGTCCCAGAGAAGAGTTTTGACTTTGAAGAGGTCCAGGTGGGACTCGC            TGGGGGTGGGGTCTCCGGGATTAGTTCAGAGGGAGGTGTTCTGGAAGACTCCGTGGAGC            GGGACGCAGGCACTGCTGTTGGACGACACGCGGGATGGCTGCTTCTGAAGTTGTGGCT            GTGACACTGACCTGTTGACAACTCCTCCACAGCCAGTGGCTTGTGTTGACGGTGAA            CTTGGACAGAGTCCCACATCCTTCCTGCTGGTGATAAACTTCTGGTTTTGATTTTTTGA            AAGACACTGCTGTGTTCTGGCACGAGCGAGCCCGTTTCTGGGGCTGGTTCTTTTCGAGCT            GGCGATCTTGGGGACCAACGATTGGCATCTTCCCTCT</p>
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_000635
<b>Insert Size:</b>	4000 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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\\_000635.2](#), [NP\\_000626.2](#)

**RefSeq Size:** 4015 bp

**RefSeq ORF:** 2172 bp

**Locus ID:** 5990

**UniProt ID:** [P48378](#)

**Cytogenetics:** 19p13.3

**Protein Families:** Druggable Genome, 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, X3, X4, and X5. It is a transcriptional activator that can bind DNA as a monomer or as a heterodimer with other RFX family members. This protein can bind to cis elements in the promoter of the IL-5 receptor alpha gene. Two transcript variants encoding different isoforms have been described for this gene, and both variants utilize alternative polyadenylation sites. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (1) is the longer transcript and encodes the longer protein (isoform a).