

Product datasheet for **SC111713**

RFXANK (NM_003721) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFXANK (NM_003721) Human Untagged Clone
Tag:	Tag Free
Symbol:	RFXANK
Synonyms:	ANKRA1; BLS; F14150_1; RFX-B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111713 sequence for NM_003721 edited (data generated by NextGen Sequencing)

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ATGGAGCTTACCCAGCCTGCAGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAA  
CTTGGGGACCCTGAAGACCCCGAGAGGAGGCTGCAGATGGCTCAGACACTGTGGTCCTC  
AGTCTCTTTCCCTGCACCCCTGAGCCTGTGAATCCTGAACCGGATGCCAGTGTTCCTCT  
CCACAGNNNGCAGCTCCCTGAAGCACTCCACCACTCTCACCAACCGGCAGCGAGGGAAC  
GAGGTGTGAGCTCTGCCGGCCACCCTAGACTCCCTGTCCATCCACCAGCTCGCAGCACAG  
GGGGAGCTGGACCAGCTGAAGGAGCATTGCGGAAAGGTGACAACCTCGTCAACAAGCCA  
GACGAGCGGGCTTACCCCTCATCTGGCCTCCGCTTTGGAGAGATTGAGACCGTT  
CGCTTCTGCTGGAGTGGGTGCCGACCCACATCCTGGCAAAAGAGCGAGAGAGCGCC  
CTGTGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGAC  
GTGGACATCAACATCTATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCCGGG  
AACCACGTGAAATGCGTTGAGGCCTTGCTGGCCGAGGCGCTGACCTCACCAACGAGCC  
GACTCTGGCTACACCCGATGGACCTTGCCGTGGCCCTGGGATACCGGAAAGTGCAACAG  
GTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGTGCCCGTGACCCTGAG  
TGA
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Clone variation with respect to NM_003721.2
187 g=>n;188 c=>n;189 a=>n;190 g=>n



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003721 unedited
 GATTTTGTATCCGACTACTATAGCGCGCCGCAATTCGGCACGAGGCCGGTCTCCAGTTT
 GCCTCCTGCTATATCCATTGGAAGAGAAAAGTTTGTGACTTGGGCCCCCAAGTTTGTAGAG
 AACTGGGCTTTCGGCGCGGGGGGACAGAGGAGGCTCGTGGGGAGCTTTCCTCATGGAGCT
 TACCCAGCCTGCAGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGA
 CCCTGAAGACCCCGGAGAGGAGGCTGCAGATGGCTCAGACACTGTGGTCCCTCAGTCTCTT
 TCCCTGCACCCCTGAGCCTGTGAATCCTGAACCCGATGCCAGTGTTCCTCTCCACAGGG
 CAGCTCCCTGAAGCACTCCACCACTCTCACCAACCGGCAGCGAGGAACGAGGTGTCAGC
 TCTGCCGGCCACCTAGACTCCCTGTCCATCCACCAGCTCGCAGCACAGGGGGAGCTGGA
 CCAGCTGAAGGAGCATTTCGGGAAAGGTGACAACCTCGTCAACAAGCCAGACGAGCGCGG
 CTTACCCCCCTCATCTGGGCTCCGCCTTTGGAGAGATTGAGACCGATCGCTTCTGCT
 GGAGTGGGGTGCCGACCCACATCCTGTCAAAGAGCGAGAGAGCGCCCTGTCGCTGG
 CCCGCACAGGCGGCTCCACAAGACATTGGTGTGCTGCCGGAGCGTGACGTGGACAT
 CAACATCTATGACTGAAATGGATGGACGCCACTGCTGGACGCTGTGCCGCGGACCACG
 TGAATGCGTTGAGGCCCTTGCTTGCCCGAGCCGCTGACCTACCCCGAAAGCGCACTC
 TGTCTACACCCGATGAACCTGCGGGGCCCTGGGTATACCGGAAGGGCACCAGGGGAT
 TGAGAACCCATTCTCAGTTTTTTCCAAGCACCTGGGGCCGGTACCTCGATGAAGCCG
 GCTGCCGGGCACTCAACC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_003721 unedited
 GGAAAAAANTTACTTGNACCGCGCAATCTANATCGAGTTTTTTTTTTTTTTTTTTTTC
 TGCACAGAAGTTTATTGGTTCTCTTGGGAAGGGTCCCCTCCCACCACCTGTCCAGAAGC
 TGCTTTGAAGTCAGTTCTGGGTTTCCCAGCTCTGGCTGACATTTTGTCCCTGAGTG
 TCTGAGTCCCGCAGGCGGCCTCACTCAGGGTCAGCGGCACCAGTTGCTCTGGAAG
 AGCTTGAGGATGTGGTTCTCGATCACCTGTTGCACTTTCGGTATCCCAGGGCCACGGC
 AAGGTCCATNCGGNTGTANCCAGAAGTCGCTTCGGTGGTGAAGTCAGCGCTCGGGCCA
 GCAGGCCCAACGCATTTTACGTGGTTCGCGCCAGCGTACAGCAGTGGCGTCCCTCCA
 TTCCATCATAGAATGTGATGTCCACGTNACGCTCCAACAGCAGCCCCACAATGTCTGTGG
 TACCGCTGTGCTGGCACACCACAGGCCCTTTTTGCTTCTTTTCCAGATGTGGGGGT
 CGCACCCCACTCCACCAGAAACGAACCCGCTAATTTCTTCAAAGCCGAGGGCCAAAT
 GAGGGGGGTGAAACCGCCCTCCTTTGGCTTGGTTGACCAAGTTACCCCTTTTCCAAA
 GGCTCTTAACGGGGCAATTCCTTTTCTTGAACCTTGGGAAGGACCGGGATTTT
 AGGGGGCCGGAAAAAATTAACCTCTTTTCCCTTCTTCCCGTTGGGAAAAATGGGGG
 AATGCTTTAGGGAACCTCCCTTGGGAAAAGGAAAACCGGGTCTCGGTTAAGAATTCC
 AAGCCCCAGGGGGGGGAAAAAACCAGGCCACCTGGTGGAACTTTTGAAGCCC
 CTTTTCCGGGTTTTAGGGGCCCAATTTAGAGCAGGGTCTTGGGTTAAAAAATC
 TTTTCGACGGGGGACCTCCGGAAAAAATCCAAAATCCTTTTGTCCCGCCAGAA
 CCATTA

Restriction Sites:

NotI-NotI

ACCN:

NM_003721

Insert Size:

1120 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).

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:	<ol style="list-style-type: none">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_003721.2 , NP_003712.1
RefSeq Size:	1438 bp
RefSeq ORF:	783 bp
Locus ID:	8625
UniProt ID:	O14593
Cytogenetics:	19p13.11
Domains:	ANK
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Antigen processing and presentation, Primary immunodeficiency
Gene Summary:	<p>Major histocompatibility (MHC) class II molecules are transmembrane proteins that have a central role in development and control of the immune system. The protein encoded by this gene, along with regulatory factor X-associated protein and regulatory factor-5, forms a complex that binds to the X box motif of certain MHC class II gene promoters and activates their transcription. Once bound to the promoter, this complex associates with the non-DNA-binding factor MHC class II transactivator, which controls the cell type specificity and inducibility of MHC class II gene expression. This protein contains ankyrin repeats involved in protein-protein interactions. Mutations in this gene have been linked to bare lymphocyte syndrome type II, complementation group B. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene. [provided by RefSeq, Jul 2013]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (a).</p>