

## Product datasheet for **RC223081**

### RFXANK (NM\_134440) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RFXANK (NM_134440) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RFXANK
Synonyms:	ANKRA1; BLS; F14150_1; RFX-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223081 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAGCTTACCCAGCCTGCAGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACC  
CTGAAGACCCCGGAGAGGAGGCTGCAGATGGCTCAGACTGTGGTCTCAGTCTCTTCCCTGCACCCC  
TGAGCCTGTGAATCCTGAACCGGATGCCAGTGTTCCTCTCCACAGGCAGGCAGCTCCCTGAAGCACTCC  
ACCACTCTACCAACCGCAGCGAGGGAACGAGGTGTGAGCTCTGCCGGCCACCTAGACTGTGACAACC  
TCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTGGGCCTCCGCCTTTGGAGAGATTGAGAC  
CGTTCGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAAGAGCGAGAGAGCGCCCTGTGC  
CTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGACATCAACATCT  
ATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACGTGAAATGCGTTGAGGCCTT  
GCTGGCCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGCCGTGGCC  
CTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTTCCAGAGCAACCTGGTGC  
CCGCTGACCCTGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

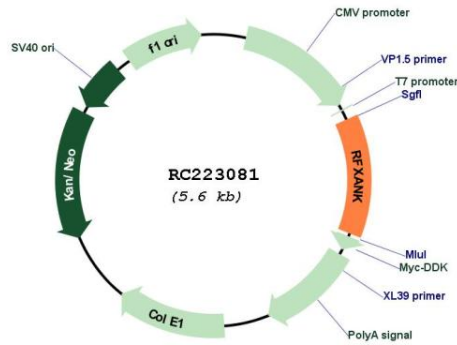


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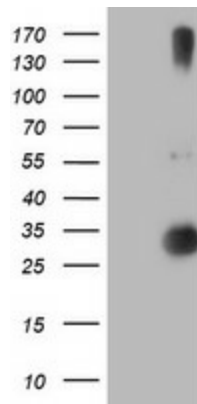


<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_134440.2</a>
<b>RefSeq Size:</b>	1386 bp
<b>RefSeq ORF:</b>	714 bp
<b>Locus ID:</b>	8625
<b>UniProt ID:</b>	<a href="#">O14593</a>
<b>Cytogenetics:</b>	19p13.11
<b>Domains:</b>	ANK
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Protein Pathways:</b>	Antigen processing and presentation, Primary immunodeficiency
<b>MW:</b>	25.7 kDa
<b>Gene Summary:</b>	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]

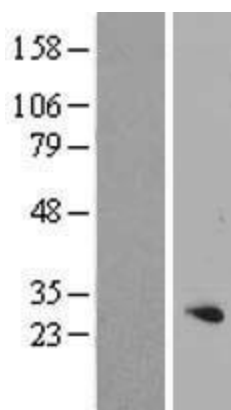
Product images:



Circular map for RC223081



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY RFXANK (Cat# RC223081, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-RFXANK (Cat# [TA504271]). Positive lysates [LY408725] (100ug) and [LC408725] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY408725]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223081 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).