

Product datasheet for **RC236827**

RFXANK (NM_001278727) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: RFXANK (NM_001278727) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: RFXANK
Synonyms: ANKRA1; BLS; F14150_1; RFX-B
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236827 representing NM_001278727
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTTACCCAGCCTGCAGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACC
CTGAAGACCCCGAGAGGAGGCTGCAGATGGCTCAGACACTGTGGTCCTCAGTCTCTTCCCTGCACCCC
TGAGCCTGTGAATCCTGAACCGGATGCCAGTGTTCCTCTCCACAGGCAGGCAGCTCCCTGAAGCACTCC
ACCACTCTACCAACCGGCAGCGAGGGAACGAGGTGTCAGCTCTGCCGGCCACCCCTAGACTGTGACAACC
TCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTGGGCCCTCCGCCTTTGGAGAGATTGAGAC
CGTTTCGCTTCTGCTGGAGTGGGGTGCCGACCCACATCCTGGCAAAGAGCGAGAGAGCGCCCTGTGCG
CTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGTGTGCTGGAGCGTGACGTGGACATCAACATCT
ATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACGTGAAATGCGTTGAGGCCTT
GCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTGCCGTGGCC
CTGGGATACCGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTTCCAGAGCAACCTGGTGC
CCGCTGACCCTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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:	<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_001278727.1 , NP_001265656.1
RefSeq Size:	1389 bp
RefSeq ORF:	717 bp
Locus ID:	8625
UniProt ID:	O14593
Cytogenetics:	19p13.11
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	Antigen processing and presentation, Primary immunodeficiency
MW:	26.1 kDa
Gene Summary:	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]