

Product datasheet for **RG223081**

RFXANK (NM_134440) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFXANK (NM_134440) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RFXANK
Synonyms:	ANKRA1; BLS; F14150_1; RFX-B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223081 representing NM_134440 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTTACCCAGCCTGCAGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGACC
CTGAAGACCCCGGAGAGGAGGCTGCAGATGGCTCAGACTGTGGTCTCAGTCTCTTCCCTGCACCCC
TGAGCCTGTGAATCCTGAACCGGATGCCAGTGTTCCTCTCCACAGGCAGGCAGCTCCCTGAAGCACTCC
ACCACTCTACCAACCGCAGCGAGGGAACGAGGTGTGAGCTCTGCCGGCCACCTAGACTGTGACAACC
TCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTGGGCCTCCGCCTTGGAGAGATTGAGAC
CGTTTCGCTTCTGCTGGAGTGGGGTGCCGACCCCCACATCCTGGCAAAGAGCGAGAGAGCGCCCTGTGC
CTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGACATCAACATCT
ATGATTGGAATGGAGGGACGCCACTGCTGTACGCTGTGCGCGGGAACCACGTGAAATGCGTTGAGGCCTT
GCTGGCCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTTCCGCTGGCC
CTGGGATACCGGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGCAACCTGGTGC
CCGCTGACCCTGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223081 representing NM_134440
 Red=Cloning site Green=Tags(s)

MELTQPAEDLIQTQQTPASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQAGSSLKHS
 TTLTNRQRGNEVSALPATLDCDNLVNKPDERGFPLI WASAFGEIETVRFLLLEWGADPHILAKERESALS
 LASTGGYTDIVGLLLERDVIDINIYDWNGGTPLL YAVRGNHVKVCVEALLARGADLTTEADSGYTPMDLAVA
 LGYRKVQQVIENHILKLFQSNLVPADPE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_134440

ORF Size: 714 bp

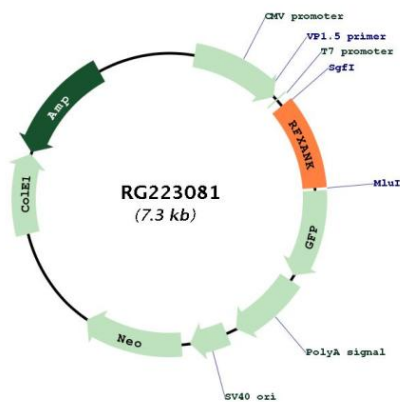
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_134440.1 , NP_604389.1
RefSeq Size:	1369 bp
RefSeq ORF:	714 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:	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 RG223081