

Product datasheet for **RG236810**

RFXANK (NM_001278728) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFXANK (NM_001278728) 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:	>RG236810 representing NM_001278728. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGCTTACCCAGCCTGCAGAAGACCTCATCCAGACCCAGCAGACCCCTGCCTCAGAACTTGGGGAC
CCTGAAGACCCCGGAGAGGAGGCTGCAGATGGCTCAGACACTGTGGTCTCAGTCTCTTTCCCTGCACC
CCTGAGCCTGTGAATCCTGAACCGGATGCCAGTGTTCCTCTCCACAGGCAGGCAGCTCCCTGAAGCAC
TCCACCACTCTCACAACCGGCAGCGAGGGAACGAGGTGTCAGCTCTGCCGGCCACCTAGACTGTGAC
AACCTCGTCAACAAGCCAGACGAGCGCGGCTTACCCCCCTCATCTGGGCTCCGCCTTTGGAGAGATT
GAGACCGTTTCGTTCTGCTGGAGTGGGGTGCCGACCCACATCTGGCAAAGAGCGAGAGAGCGCC
CTGTCGCTGGCCAGCACAGGCGGCTACACAGACATTGTGGGGCTGCTGCTGGAGCGTGACGTGGACATC
AACATCTATGATTGGAATGGAGGACGCCACTGCTGTACGCTGTGCGCGGAACACGTGAAATGCGTT
GAGGCCTTGTGGCCGAGGCGCTGACCTCACCACCGAAGCCGACTCTGGCTACACCCCGATGGACCTT
GCCGTGGCCCTGGGATACCGAAAGTGCAACAGGTGATCGAGAACCACATCCTCAAGCTCTTCCAGAGC
AACCTGGTGCCCGCTGACCCTGAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG236810
 Blue=ORF Red=Cloning site Green=Tag(s)

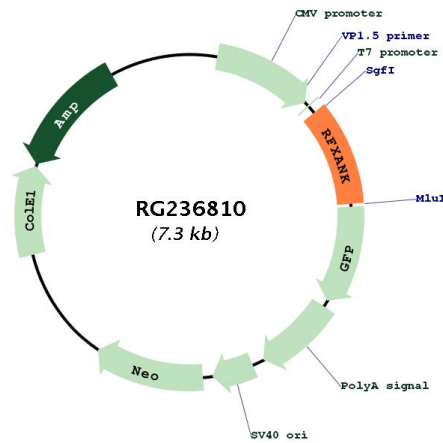
MELTQPAEDLIQTQQTASELGDPEDPGEEAADGSDTVVLSLFPCTPEPVNPEPDASVSSPQAGSSLKH
 STTLNRRQRGNEVSALPATLDCDNLVKNPDERGFTPLIWASAFGEIETVRFLLWGDADPHILAKERESA
 LSLASTGGYTDIVGLLLERDVIDINIYDWNNGTPLLAYAVRGNHVKCV EALLARGADLTTEADSGYTPMDL
 AVALGYRKVQVQIENHILKLFQSNLVPADPE
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
 SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001278728

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).
RefSeq:	NM_001278728.1 , NP_001265657.1
RefSeq Size:	1224 bp
RefSeq ORF:	714 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:	25.7 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]