

Product datasheet for **RG220094**

RFX2 (NM_134433) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RFX2 (NM_134433) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RFX2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG220094 representing NM_134433
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGAATTCGAGGGTGGAGCGGATTGCCAGCGTCCGTGGCTCTGCGTCCCTCGGCGCAGCCCCGC
 CTGTGCCAGCCTCCCGCAGAGGGTGTGGTCCAGGCAGCCAGCTCCAATCCCAAAGGGGCCAGATGCA
 GCCGATCTCCCTCCCGAGAGTTCAGCAGGTACCCAGCAGGTGCAGCCGGTGCAGCACGTGTATCCTGCC
 CAGGTGCAGTACGTGGAAGGGGAGACGCCGTCTACACCAATGGAGCCATACGAACAGCCTACACCTACA
 ACCCCGAGCCTCAGATGTACGCCCCAGCAGCAGCGTCTTACTTCGAGGCCCCAGGCGGTGCCAGGT
 GACCGTGGCAGCCTCGTCCCGCCAGCGGTCCCCTCCACAGCATGGTGGGCATCACCATGGATGTCGGG
 GGGAGCCCCATCGTCTCCAGCGCGGGAGCCTATCTCATCCAGGGGGGATGGACAGCACCAGACTCCC
 TGGCCACACCTCCCGCTCATCGCCGCCACGCTCCAGTGGCTGTTGGATAATTATGAAACAGCGGAAGG
 TGTGAGTCTCCCAAGAAGTTCTCTTTACAACCACTACCTTCGGCACTGCCAGGAGACAAGCTAGACCCA
 GTGAACGCCCGCTCCTTCGGGAAACTGATCCGTTCTGTGTTTATGGGGCTGAGAAGCGCGCGGTGGGCA
 CCAGGGGCAACTCGAAGTACCATTACTATGGGATTCTGCTGAAGCCGGACTCACCACTGAACCGGTGCA
 GGAGGACACGCAGTACATGGCCATGCGGCAGCAGCCATGCACCAGAAGCCAGGTACCGGCCAGCCAG
 AAGACGGACAGCCTCGGGGACAGCGGCTCCACAGCGGCTGCACAGCACTCCGGAACAGACCATGGCCG
 TGCAGAGCCAGCACCACAGCAGTACATAGATGTCTCCACGTCTTCCCGAGTTCCAGCGCCCCAGCT
 GGGCAGTTCTGCTGCAGGACGGCGTCACTGCACGACGTCAAGGCCCTGCAGCTGGTGTACAGACGG
 CACTGCGAGGCAACTGTAGATGTGGTGTGAACCTCCAGTCCACTACATCGAGAAGCTGTGGCTCTCT
 TCTGGAACCTAAGGCCCTCCAGCGACGGCCCCACCTCTTCTGCCAGTGACGAAGACCCCGAGGG
 CGCCGTCCTGCCAAGGACAAGCTTATCTCCCTGTGTGTCAGTGCACCCCATCCTCAGGTGGATGAGGAGC
 TGCAGCACATCCTCTACCAGGCCTGGTGGAGATTCTCATCCCCGACGTGCTGAGGCCGGTCCCCAGTA
 CCTTGACACAGGCCATCCGTAACCTTGCCAAGAGCTTGAAGGCTGGTTGACAAATGCCATGAGTACTT
 CCCACAACAGGTATCCAGACCAAGGTGGGCGTCGTGAGTGCCTTCGCCAGACGCTGCGGCGCTACAG
 TCCCTCAACCACCTGGCGCAGGCGGCCCGGGCGGTGCTGCAGAACACGTCCAGATCAACCAGATGCTCA
 GCGACCTCAACCGCTGGACTTTGCCAACGTGCAGGAGCAGGCCCTCGTGGGTGTGCCAGTGCAGGAGAG
 TGTGGTGCAGCGGCTGGAGCAGGATTTCAAGCTGACCTGCAGCAGCAGAGCTCCCTGGACCAGTGGCC
 AGCTGGCTGGACAGTGTGGTCAACCAGTCTGAAGCAGCATGCCGGCAGCCCCAGCTTCCCAAGGCCG
 CCCGGCAGTTCTTGTGAAATGGTCCTTTTACAGCTCCATGGTGTATCCGGGACCTGACCCTGCGCAGCGC
 TGCCAGCTTCGGCTCCTTCCACCTCATCCGCTGCTCTACGACGAGTACATGTTCTACCTGGTGGAGCAC
 CGCGTCGCGGAGGCCACCGGAGAGACGCCGATCGCTGTGATGGGAGAGTTCAACGATCTCGCTCTCTGT
 CGCTGACGCTGCTCGACAAAGATGACATGGGCGATGAGCAGCGTGGCAGCGAGGGCGGCCAGACGCCCC
 CAGCCTGGGTGAGCCCCGTGTAAGCGGGAGCGCAGTGACCCCAACCACTCCCTGCAGGGCATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220094 representing NM_134433
Red=Cloning site Green=Tags(s)

MQNSEGGADSPASVALRPSAAAPPVPASPQRVLVQAASSNPKGAQMOPISLPRVQQVPPQVQPVQHVYPA
 QVQYVEGGDAVYTNGAIRTAITYNPEPQMYAPSSASYFEAPGGAQVTVAASSPPAVPSHSMVGITMDVG
 GSPIVSSAGAYLIHGGMDSTRHSLAHTSRSSPATLQWLLDNYETAEGVSLPRSSLYNHYLRHCQEHLDP
 VNAASFGKLIRSVFMGLRTRRLGTRGNSKYHYIGIRLKPDSPLNRLQEDTQYMAMRQQPMHQKPRYRPAQ
 KTDSLGDSSGSHSLHSTPEQTMVQSQHHQQYIDVSHVFPFPAPDLGSFLLQDGVTLHDVKALQLVYRR
 HCEATVDVVMNLQFHUIEKLWLSFWNSKASSSDGPTSLPASDEDPEGAVLPKDKLISLCQCDPILRWMRS
 CDHILYQALVEILIPDVLRPVSTLTQAIRNFAKSLEGWLTNAMSDFPQQVIQTKVGVVSAFAQTLRRT
 SLNHLAQAARAVLQNTSQINQMLSDLNRVDFANVQEQASWVCQCEESVQRLEQDFKLTQQSSLDQWA
 SWLDSVVTQVLKQHAGSPSPFKAARQFLKWSFYSSMVIDRLTLRSAASFGSFHLIRLLYDEYMFYLV
 RVAEATGETPIAVMGEFNDLASLSTLLDKDDMGDEQRGSEAGPDARSLGEPLVKRERSDPNHSLQGI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_134433

ORF Size: 2094 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:

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_134433.3](#)

RefSeq Size: 3940 bp

RefSeq ORF: 2097 bp

Locus ID: 5990

UniProt ID: [P48378](#)

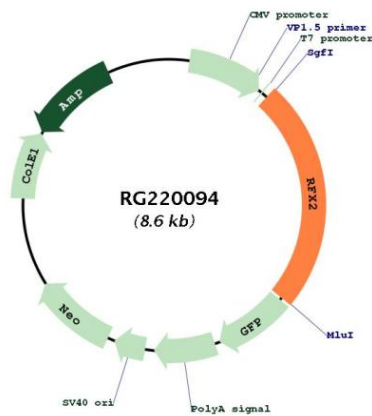
Cytogenetics: 19p13.3

Domains: RFX_DNA_binding, RFX1_trans_act

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene is a member of the regulatory factor X gene family, which encodes transcription factors that contain a highly-conserved winged helix DNA binding domain. The protein encoded by this gene is structurally related to regulatory factors X1, X3, X4, and X5. It is a transcriptional activator that can bind DNA as a monomer or as a heterodimer with other RFX family members. This protein can bind to cis elements in the promoter of the IL-5 receptor alpha gene. Two transcript variants encoding different isoforms have been described for this gene, and both variants utilize alternative polyadenylation sites. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG220094