

Product datasheet for **MC220294**

Rfx6 (NM_177306) Mouse Untagged Clone

Product data:

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|--------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Rfx6 (NM_177306) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Rfx6 |
| Synonyms: | 4930572O07Rik; Rfxdc1 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



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Fully Sequenced ORF: >MC220294 representing NM_177306
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGTACAAAACCTCACTGCCAGTGCATACTCGACAATGCCATCAATGGGAACCTTGAAGAGATCCAGC
 ATTTCTTACTACACTTTTGGCAAGGAATGCCAGACCATCTCCTTCCCCTGCTTGA AAAATCCTGTTATCAT
 TGATATTTTCTGTGTCTGTGACTCAATTCTTTATAAGGTTCTTACAGATGTCCTCATTCTGCAACAATG
 CAAGAAATGCCTGAAAGTTTGTAGCAGATATAAGAAATTTTGCTAAAAATGGGAACAGTGGGTTGTTT
 CATCCTTGGAAAACCTGCCAGAAGCCCTCATTGATAAGAAAATCCCCATTTTGGGAAGATTTGTATCTTC
 CCTGAAGCGACAGACATCTTCTTGCATCTTGCTCAGATTGCCAGACCAGCTCTCTTTGACCAGCATGTG
 GTGAATGCCATGGTATCTGATATTGAAAAGTTGACTTAAATAGTATTGGGTCTCAGGCTCTTCTTACCA
 TATCCAACAGCACAGACACGGAATCTGACATCTACAGTGAACATGACTCTATTACTGTGTTCCAAGAACT
 GAAAGATCTCCTAAGAAGAATGTACAGTGGAGGCATTTATTGAATGGTTGGACTGTGGTAGAGCAG
 AGAGTTATTAAGATGAGCAAAACAAAATGGAAGATCTCTGAAGAAGAGGGCTCAAGACTTTCTGCTCAAA
 TGGAGCTTTTTTGGTGCCCGCTGATGCATAATCTTACCTTGAACAACGCATCAAGTTTTGGCTCTTTCCA
 TCTGATCCGAATGCTTCTGGATGAGTACATTCTCCTGGCCATGGAGACTCAATTTAACAATGACAAAAGAG
 CAGGAACACAGAATTTATTGGACAAGTATATGAAGAACCGGATGCGAGTAAAGCTGCCTTACAGCTT
 CCCCAGCTCTTGCTTTCTGGCAACCGAAATAAGGCTAGCTCACTTGGCAGTGACACTGTGAAGAACGA
 AAGCCAGTGGAGACATCCTATGTCCTCTGCCTCCAGCCAGCTGGAGCCATACCCCTGCTCTGCAC
 CCATTCTCAACTGAGGACACTGATAACATGCCACTCCAGGTCAAATAGAGCTTTCACAAAGTACTGGCC
 ATCTGATGACACCACCGATTTCTCCAGCCATAGCAAGCAGAGGAAGTGTATTAACCAAGGGCCAATGGC
 GAGCAGACCCCGAGCGTGGGCACAGTTCTCTCAGCTCCAACACATTGCTCAACATATGCAGAACCAATT
 TATCCTACGCTCTCTCCAGCCAACACGACTTTTTATGGGACCAACTCTAACTATCAGACTATGTTTAGGA
 CACAGTCTCACCTGCATCAAGCCTCTATGCTCACCGTGCAGAGCATGGGCGGTGCATGGCCTGGACTGA
 ACAGCAGCTTTCTAGAGACTTCTTTGGTGGCAGTTGTGCTGGGTCTCCATATAATTGTAGGCCACCTTCC
 AGTTATGGACATCCACACACACACAAGAGTCACACAGCATGCAGGTTTTGAACACAGGAAGCTTCAATT
 TCCTTAGTAATGCAGGAGCTGGCAGCTGCAAGGGTCAACATTGCCTTCTAATTCTCCAATGGATACTA
 TGGAAACAATATAAACTACTCAGAGGCACATAGGCTTGGATCGATGGTGAACCAACATGTTTCAGTCATC
 AGCAGTGTGCGCTCCCTGCCTCCCTACAGTGATATTCATGATCCACTAACATTTTATAGTACAGCAGCC
 GGAAGCAGAACTCGTTTTATGCAGACACATTTGCTCCTGTTGCATGTCGTACTACTGTAGTAGCTTC
 CAACTTCAAACCCAGATTCTTTCATCTTCATCCAGTGTATGTATGGAACCTTCCAATCAGTATCCAGTG
 CAAGATAGTCTGGACTCCAATGCAGCAAGCAACAGAGAAATGGTGTCTCTTTACCACCCATCAACACCCG
 TGTTTATGGGGACAGCAGCTGGAGACT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_177306
- Insert Size:** 1992 bp
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- 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_177306.3](#), [NP_796280.1](#)

RefSeq Size: 3088 bp

RefSeq ORF: 1992 bp

Locus ID: 320995

UniProt ID: [Q8C7R7](#)

Cytogenetics: 10 B3

Gene Summary: Transcription factor required to direct islet cell differentiation during endocrine pancreas development. Specifically required for the differentiation of 4 of the 5 islet cell types and for the production of insulin. Not required for pancreatic PP (polypeptide-producing) cells differentiation. Acts downstream of NEUROG3 and regulates the transcription factors involved in beta-cell maturation and function, thereby restricting the expression of the beta-cell differentiation and specification genes, and thus the beta-cell fate choice. Activates transcription by forming a heterodimer with RFX3 and binding to the X-box in the promoter of target genes (PubMed:20148032). Involved in glucose-stimulated insulin secretion by promoting insulin and L-type calcium channel gene transcription (By similarity).
[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (2) has a distinct N-terminus and is shorter than isoform 1.