

## Product datasheet for **MC222674**

### Rfx6 (NM\_001159389) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rfx6 (NM_001159389) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rfx6
Synonyms:	4930572O07Rik; Rfxdc1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >MC222674 representing NM\_001159389  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCTAAGTCCGGAACTGGAGGAAGCTTTCGTGCAGGAGCAGCCTTCGCCCAACTCCCTCCGAGA  
 TCGCGGAGGAGTCTGCGCGCAGCTGCTTGGCAAGGGCTTGTGTGTCTACCCTGAGGACAGTGCTTACCT  
 GCTGGCTGAAACAGCCGCGGGCGCTCGGAGCAGCGGTGAGAAAGCGGAGATCCCGGGCTGCAGGTGGGA  
 GTTAAATCAGAAATGCAGTTAAACAACGGCAACTTTTCCTCGGAAGAAGAGGATGCGGACACCCAGGAGA  
 GCAAGACCAAAGCAGCCGACCCACAGCTCTCTCAGAAGAAGAGCATCACGCAGATGATGAAGGATAAGAA  
 GAAGCAGACTCAGCTCACCTGCAGTGGCTTGAAGACAATTACATAGTGTGTGAAGGAGTTTGCCTCCCA  
 CGGTGCATTCTTTATGCTCACTACCTAGATTTCTGCAGGAAAGAGAAAAGTGGAGCCAGCTTGTGCAGCCA  
 CCTTTGGAAGACAATTCGCCAAAAATTTCCCTCCTAACAACTCGAAGACTTGGAAACAAGAGGACATTC  
 AAAGTACCATTACTATGGGATTGGCATCAAAGAAAGCAGTGCATATTACCACTCTGTTTATTCTGGAAG  
 GGCTTGACAAGGTTTTCCGGGAGCAAAGTGAAGAATGAGGGTGGTTTTACACGTAATACTCACTTAGCT  
 CAAAAACAGGAACACTTCTCCAGAATTTCCAGCGCTCAACATCTTGTGTACCAAGGATGCATTCTAA  
 GGACAAGTTGATACTCTATAATGATGTACAAAACACTCACTGCCAGTGCATACTCGACAATGCCATCAAT  
 GGGAACTTTGAAGAGATCCAGCATTTCTTACTACACTTTTGGCAAGGAATGCCAGACCATCTCCTCCCC  
 TGCTTGAAAACTCTGTTATCATTGATATTTCTGTGTCTGTGACTCAATTCTTTATAAGGTTCTTACAGA  
 TGTCTCATTCTGCAACAATGCAAGAAATGCCTGAAAGTTTGTAGCAGATAAAGAAATTTGCTAAA  
 AATTGGGAACAGTGGGTGTTTCATCCTTGGAAAACCTGCCAGAAGCCCTCATTGATAAGAAAATCCCA  
 TTTTGCGAAGATTTGTATCTTCCCTGAAGCGACAGACATCTTTCTGCATCTTGCATGTTGCCAGACC  
 AGCTCTCTTTGACCAGCATGTGGTGAATGCCATGGTATCTGATATTGAAAAGGTTGACTTAAATAGTATT  
 GGGTCTCAGGCTCTTCTTACCATATCCAACAGCACAGACACGGAATCTGCATCTACAGTGAACATGACT  
 CTATTACTGTGTTCCAAGAACTGAAAGATCTCCTTAAGAAGAATGCTACAGTGGAGGCATTTATTGAATG  
 GTTGGACTGTGGTAGAGCAGAGAGTTATTAAGATGAGCAAACAAAATGGAAGATCTCTGAAGAAGAGG  
 GCTCAAGACTTTCTGCTCAAATGGAGCTTTTTTGGTGCCCGCGTGATGCATAATCTTACCTTGAACAACG  
 CATCAAGTTTTGGCTCTTCCATCTGATCCGAATGCTTCTGGATGAGTACATTCTCCTGGCCATGGAGAC  
 TCAATTTAACAATGACAAAGAGCAGGAACACAGAATTTATTGGACAAGTATATGAAGAAGTCCGATGCG  
 AGTAAAGTGCCTTACAGCTTCCCGAGCTCTTCTTTCTGGCCAACCGAAATAAGGCTAGCTCACTTG  
 CCAGTGACTGTGAAGAACGAAAGCCAGTGGAGACATCCTATGTCCTCTGCCTTCCAGCCAGCCTGG  
 AGCCATACCCCTGCTCTGCACCCATTCTCAACTGAGGACACTGATAACATGCCACTCCCAGGTCAAATA  
 GAGCTTTCACAAAGTACTGGCCATCTGATGACACCACCGATTTCTCCAGCCATAGCAAGCAGAGGAAGTG  
 TTATTAACCAAGGGCAAATGGCGAGCAGACCCCGAGCGTGGGCACAGTTCTCTCAGCTCCAACACATTG  
 CTCAACATATGCAGAACCAATTTATCCTACGCTCTCTCCAGCCAACCACGACTTTTATGGGACCAACTCT  
 AACTATCAGACTATGTTTAGGACACAGTCTCACCTGCATCAAGCCTCTATGCTCACCGTGCAGAGCATG  
 GGCGGTGCATGGCCTGGACTGAACAGCAGCTTTCTAGAGACTTCTTTGGTGGCAGTTGTGCTGGGTCTCC  
 ATATAATTGTAGGCCACCTTCCAGTTATGGACCATCCACACACACAAGAGTACACAGCATGCAAGTT  
 TTGAACACAGGAAGCTTCAATTTCTTAGTAATGCAGGAGCTGGCAGCTGCCAAGGGTCAACATTGCCTT  
 CTAATTTCCCAATGGATACTATGGAAACAATAAACTACTCAGAGGCACATAGGCTTGGATCGATGGT  
 GAACCAACATGTTTCACTCATCAGCAGTGTGCGCTCCCTGCCTCCCTACAGTGAATTCATGATCCACTT  
 AACATTTTAGATGACAGCAGCCGGAAGCAGAACAACCTGTTTTATGCAGACACATTGTCTCCTGTTGCAT  
 GTCGTACTACTGTAGTACTTCCAACCTGCAAACCCAGATTCCTTCATCTTATCCAGTGTATGTATGG  
 AACTTCCAATCAGTATCCAGTGAAGATAGTCTGGACTCCAATGCAGCAAGCAACAGAGAAATGGTGTCC  
 TCTTACCACCCATCAACACCGTGTATGGGGACAGCAGCTGGAGACACT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

<b>ACCN:</b>	NM_001159389
<b>Insert Size:</b>	2784 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_001159389.1</a></u> , <u><a href="#">NP_001152861.1</a></u>
<b>RefSeq Size:</b>	3457 bp
<b>RefSeq ORF:</b>	2784 bp
<b>Locus ID:</b>	320995
<b>UniProt ID:</b>	<u><a href="#">Q8C7R7</a></u>
<b>Cytogenetics:</b>	10 B3
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>