

Product datasheet for **MC203934**

Rfx3 (NM_011265) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfx3 (NM_011265) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rfx3
Synonyms:	C230093O12Rik; MRFX3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC017598
 CAACCGTTGCCTTGTGAATCAAGCGCCATAGTCACCGTAGTCCTGGCGACTGTTACCCATCAACAACAAC
 TACTCCTCTCCTCCTCCTCCTCCTCTTCTCCTCCTCCTCCTCCCAACCACCACCATCTCCATCACCCAC
 CAACAACACCACAATAATCCACAGCCAAGAGACCATCATGCAGACTTCAGAGACGGGTTACAGACACAGGT
 TCGACAGTGACTCTGCAGACGTCTGTGGCTAGCCAAGCAGCAGTGCCTACACAGGTGGTACAGCAAGTGC
 CAGTGCAGCAGCAGGTGCAGCAGGTACAGACAGTTTCAGCAGGTCCAACATGTCTACCCAGCTCAGGTGCA
 GTATGTGGAAGGAAGTGAATCTGTCTATACCAATGGAGCAATCCGAACAACAATATCCCTACACAGAA
 ACACAGATGTACAGCCAAAACACTGGAGGAAATTTGATACTCAAGGAAGTTCTGCCAGGTGACAA
 CTGTGGTGTCTCCACAGTATGGTGGGTACTGGTGGGATTAGATGGGCGTCACAGGAGGACAACATCAT
 CAGCAGCTCGGGAGGAACCTATTTGATCGGCAATTCAATGGAGAACTCTGGTCACTCAGTGACACACACA
 ACTCGGGCTCCCAAGCAACAATTGAAATGGCGATTGAGACGCTGCAAAAGTCTGACGGTCTGTCCACTC
 ACAGAAGTCTCTTCTCAACAGCCATCTGCAATGGCTGCTGGACAATTATGAGACAGCGGAGGGAGTGAG
 CCTGCCGAGGAGCAGCTGTACAACCACTACCTTCGACACTGCCAGGAGCACAAGCTGGACCCGGTCAAT
 GCCGCCTCTTTCGAAAATAATAAGGTCATTTTTATGGGGCTACGAAGTGGAGATTAGGCACTAGAG
 GAAACTCAAATACCATTACTATGGGATTCGTGTGAAGCCAGATTCTCCTTTAACCGTCTACAAGAAGA
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 CCCAAAGTCAACATCATCAACAGTTTTAGATGCATCTCGAGCACTTCCAGAGTTTGAGAAGTTGAAAT
 CTCTTCTCTGCCAGATGGTACTACCTTTGAGGATATCAAGTCACTGCAGAGTCTTTATCGAGAGCACTGT
 GAGGCAACTACTGGACGTTGTTGTGAATCTTCACTTTAGCCTGATAGAAAAACTGTGGCAACATTTGCG
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 TCGACTCCGAAAGCAAAGCTGATAACTCTGTGCAAAACATGAGTCTATCCTGAAATGGATGTGTAAGTGT
 GACCATGGGATGTACCAGCTTTGGTGGAGATTCTCATCCCCGAGTCTTAGACCCATCTGTAAGTCTCCT
 TGACCAAGCCATTCGAAATTTCCGAAAAGCCCTAGAAGGTTGGCTTTCAAATGCCATGAACAATATTC
 ACAGAGAATGATTCAAACCAAGGTTGCCCTGTAAGTGCCTTTGCTCAGACTCTGCGAAGATACACATCG
 CTCAATCACCTGGCCAGGCAGCCCGCAGTGTTCAGAACACTTCCCAGATCAACCAGATGCTCAGTG
 ACCTCAACCGGTTGACTTTGCCAATGTCCAGGAGCAGGCTTCTGGGTGTGCCAGTGTGATGACAACAT
 GGTTCAGAGACTAGAAACAGACTTCAAGATGACCCTGCAGCAGCAGACTCTGGAGCAGTGGGCTGCT
 TGGCTGGACAATGTGATGATGCAAGCGCTGAAGCCCTATGAAGGAAGGCCAGCTTCCCAGAGGCTGCTC
 GGCAGTTCTGCTCAAGTGGTCTTTCTACAGCTCCATGGTTATCCGGGACTTAACCTTGGCAGTGTGCTG
 TAGCTTTGGCTCCTTTCACCTGATCCGGCTGCTCTATGATGAGTACATGTTCTACTTAGTAGAGCATCGT
 GTTGCTCAAGTGACAGGAGAGACACCGATAGCAGTGTGGGTGAGTTTGGCGATTTAAATGCTGTATCTC
 CCGGAAATCTGGATAAAGATGAAGGCAGCGAAGTGGAAAGTGAGACGGATGAAGATCTGGATGATTCTTC
 AGAGCCTCGGGCCAAAAGGGAGAAAACGGAGCTGAGCCAGGCGTTCACAGTAGGCTGCATGCAGCCTGTT
 CTGGAGAGTGTGTGCAGCCAGCTCCTGAACCCCTACACAGCGAGCACATCGTCAACAAGTACACAGA
 CCATCAGGCAGTGCAGCGCCACAGGCAACACCTACTGCAGTCTAACAGCAGGAAAGCAGAGTTTTCCA
 GCTTACTCTAACCCATTGATACTGGGCTTAAAGCTGAAATTTAACAAGCCTGAAGGTTGACTGTTGTCA
 AAAGTCTATCTGTGCTGAACATTACCTTTTGGAGTTGTGAAATGGAATGGGTGTATGATTTTTCCAGG
 TCTTTTTTTTTTTAACACAAAATATTTGCCTTTTAAATAATAGAGCCCCTCCCCCTTAGTTTCAGGTG
 TCAAGAAGGATTTATACAACACTTAATGTCATTGTTTTGTTTTCTCATAATTAAGTAATTTACATT
 TTGTAGCTTAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI
ACCN: NM_011265
Insert Size: 2250 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:	<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:	<u>BC017598</u> , <u>AAH17598</u>
RefSeq Size:	2754 bp
RefSeq ORF:	2250 bp
Locus ID:	19726
UniProt ID:	<u>P48381</u>
Cytogenetics:	19 C1
Gene Summary:	Transcription factor required for ciliogenesis and islet cell differentiation during endocrine pancreas development. Essential for the differentiation of nodal monocilia and left-right asymmetry specification during embryogenesis. Required for the biogenesis of motile cilia by governing growth and beating efficiency of motile cells (PubMed:15121860, PubMed:19671664). Also required for ciliated ependymal cell differentiation (PubMed:16930429). Together with RFX6, participates in the differentiation of 4 of the 5 islet cell types during endocrine pancreas development, with the exception of pancreatic PP (polypeptide-producing) cells (PubMed:17229940). Regulates transcription by forming a heterodimer with another RFX protein and binding to the X-box in the promoter of target genes (By similarity). Regulates the expression of genes involved in ciliary assembly (DYNC2LI1, FOXJ1 and BBS4) and genes involved in ciliary motility (DNAH11, DNAH9 and DNAH5). Represses transcription of MAP1A in non-neuronal cells but not in neuronal cells. [UniProtKB/Swiss-Prot Function]