

Product datasheet for **MR210451**

Rfx3 (NM_011265) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfx3 (NM_011265) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rfx3
Synonyms:	C230093O12Rik; MRFX3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR210451 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGACTTCAGAGACGGGTTTCAGACACAGGTTTCGACAGTACTCTGCAGACGTCTGTGGCTAGCCAAG
 CAGCAGTGCCTACACAGGTGGTACAGCAAGTGCCAGTGCAGCAGCAGGTGCAGCAGGTACAGACAGTTCA
 GCAGGTCCAACATGTCTACCCAGCTCAGGTGCAGTATGTGGAAGGAAGTATACTGTCTATAACCAATGGA
 GCAATCCGAACAACAACCTATCCCTACACAGAAACACAGATGTACAGCCAAAACACTGGAGGAAATTACT
 TTGATACTCAAGGAAGTTCTGCCAGGTGACAACGTGGTGTCTCCACAGTATGGTGGTACTGGTGG
 GATTAGATGGGCGTCACAGGAGGACAACCTCATCAGCAGCTCGGGAGGAACCTATTTGATCGGCAATTCA
 ATGGGAACTCTGGTCACTCAGTGACACACACAACCTCGGGCTCCCGAGCAACAATTGAAATGGCGATTG
 AGACGTGCAAAAAGTCTGACGGTCTGTCCACTCACAGAAGCTCTTTCTCAACAGCCATCTGCAATGGCT
 GCTGGACAATTATGAGACAGCGGAGGGAGTGAGCTGCCGAGGAGCAGCTGTACAACCACTACCTTCGA
 CACTGCCAGGAGCACAAGCTGGACCCGGTCAATGCCGCCCTCTTTTCGGAAAACATAAAGTCCATTTTAA
 TGGGGCTACGAACTAGGAGATTAGGCACTAGAGGAAAACCTCAAATACCATTACTATGGGATTCGTGTGAA
 GCCAGATTCTCCTCTTAACCGTCTACAAGAAGATATGCAGTACATGGCTATGAGGCGCAGCCCCATGCAA
 CAGAAGCAAAGGTACAAGCCTATGCAGAAAAGTGGATGGGGTTCAGATGGTTTCACAGGAAGTGGCCAAC
 AGACAGGCACATCTGTTGAGCAAACGTAAATGCCCAAAGTCAACATCATCAACAGTTTTTATAGTGCATC
 TCGAGCACTTCCAGAGTTTGGAGAAGTTGAAATCTTTCTCTGCCAGATGGTACTACCTTTGAGGATATC
 AAGTCACTGCAGAGTCTTTATCGAGAGCACTGTGAGGCAATACTGGACGTTGTTGTGAATCTTCAGTTA
 GCCTGATAGAAAAACTGTGGCAAACATTTGGCGCTATTCCCATCTACTCCAGCCGACGGCACTACCAT
 CACGGAATCAAGCAATCTGAGTGAATAGAAAAGTCGACTTCCGAAAGCAAAGCTGATAAATCTGTGCAAA
 CATGAGTCTATCCTGAAATGGATGTGAACTGTGACCATGGGATGTACCGGCTTTGGTGGAGATTCTCA
 TCCCCGACGTCCTTAGACCCATTCTAGTGCCTTGACCCAAGCCATTGAAATTTTCGAAAAAGCCTAGA
 AGGTTGGCTTTCAAATGCCATGAACAATATCCACAGAGAATGATTCAAACCAAGGTTGCCGCTGTAAGT
 GCCTTTGCTCAGACTCTGCGAAGATACACATCGCTCAATCACCTGGCCAGGCAGCCCGCAGTGTCTC
 AGAACACTTCCCAGATCAACCAGATGCTCAGTGACCTCAACCGGTTGACTTTGCCAATGTCCAGGAGCA
 GGCTTCTGGGTGTGCCAGTGTGATGACAACATGGTTCAGAGACTAGAAACAGACTTCAAGATGACCCTG
 CAGCAGCAGAGCACTCTGGAGCAGTGGGCTGCTTGGCTGGACAATGTGATGATGCAAGCGCTGAAGCCCT
 ATGAAGGAAGGCCAGCTTCCCGAAGGCTGCTCGGCAGTTTCTGCTCAAGTGGTCTTTCTACAGCTCCAT
 GGTATCCGGGACTTAACCTTGGCAGTGTGCTAGCTTTGGCTCCTTTACCTGATCCGGCTGCTCTAT
 GATGAGTACATGTTCTACTTAGTAGAGCATCGTGTGCTCAAGTGACAGGAGAGACCCGATAGCAGTGA
 TGGGTGAGTTTGGCGATTTAAATGTGTATCTCCCGGAAATCTGGATAAAGATGAAGGCAGCGAAGTCTGA
 AAGTGAGACGGATGAAGATCTGGATGATTCTTCAGAGCCTCGGGCCAAAAGGGAGAAAACGGAGCTGAGC
 CAGGCGTTCCCAGTAGGCTGCATGCAGCCTGTTCTGGAGAGTGTGTGCAGCCAGCCTCCTGAACCCCC
 TACACAGCGAGCACATCGTCACAAGTACACAGACCATCAGGCAGTGCAGCGCCACAGGCAACACCTACAC
 TGCAGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

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_011265.3](#)

RefSeq Size: 9187 bp

RefSeq ORF: 2250 bp

Locus ID: 19726

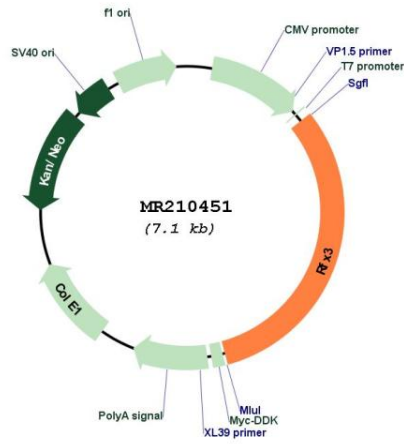
UniProt ID: [P48381](#)

Cytogenetics: 19 C1

MW: 83.5 kDa

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]

Product images:



Circular map for MR210451