

Product datasheet for **MR210076**

Rfx2 (NM_009056) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfx2 (NM_009056) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rfx2
Synonyms:	5430432H19Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>MR210076 representing NM_009056
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGCAGAACTCCGAGGGAGGAGCAGATTCGCCAGCGTCAGTGGCTCTGCGTCCTGCAGCCCAGCCCATGC
 CAGCCTCCCCACAGAGGGTGCTGGTCCAAGCTGCAGGCTCCACTCCCAAGGGTACCCCGATGCAGACACT
 CACCCTCCCCAGAGTCCAGCCAGTGCCACCACAGGTGCAGCACGTGTACCCCGCGCAGGTGCAGTACGTG
 GAGGGTGGGACGCTGTCTACGCCAACGGAGCCATCCGAGCTGCCTACGCCTACAACCCAGACCCTCAGC
 TTTACGCCCCAGCAGCGCAGCATCTTACTTTGAGACTCCAGGTGGCACTCAGGTGACGGTGGCAGCCTC
 ATCCCCACCTGCAGTCCCTCCACGGCATGGTGGGCATCACCATGGACGTCTCGGGACCCCCATTGTG
 TCTGGCGCAGGAGCTACCTCATCCATGGGGGCATGGACGGCACAAGACACTCTCTGGCCACACTGCAC
 GATCCTCACTGCCACGCTCCAGTGGCTTCTGGACAATTACGAGACAGCGGAGGGTGTGAGCCTGCCCG
 CAGCTCCCTGTACAACCACTACCTGCGCCACTGCCAGGAGCACAAGCTGGAGCCAGTCAATGCCGATCC
 TTTGGCAAACATCCGCTCTGTGTTTCATGGGCCTGCGCACACGACGCCTGGGGACAGGGGCAACTCAA
 AGTACCATTACTATGGGATCCGCTGAAGCCAGACTCCCACTGAACCGACTGCAGGAAGACACACAGTA
 CATGGCCATGAGGCAGCAACCCACACACCAAGAAGCCTAGGTATCGGCCAGCCAGAAAGTCAGACAGCCTC
 GGGGATGGCAGCGCTCACAGCAACATGCACGGCATGCCGATCAGGCCATGGCCACCCAGGGCCAGCATC
 ACCAGCAGTACATAGATGTGTCCACGTCTTCCAGAGTTCCCGGCACCTGACCTAGGCAGCAGCCTACT
 GCAGGAGAGCGTCACCCCTCATGATGTGAAGCCCTGCAGCTGGTGTATCGCAGGCACTGTGAGGCTACC
 TTAGATGTGTCATGAACCTCCAGTTTCAGTACATTGAGAAGCTCTGGTTGTCTTCTGGAAGTGAAGG
 CCACCTCCAGCGATAGCTGTGCTCGCTGCCTGCCAGCGATGAGGACCCAGAAGTCACCCCTCCTCCTAA
 GGAGAAGCTCATCTCTCTGTGTAATGTGAGCCGATCCTACAGTGGATGCGAAGCTGCGATCACATCCTG
 TACCAGACGCTGGTGGAGACCCTTATCCAGATGTGCTGCGGCCTGTCCCAAGTTCCTCACCCAGGCCA
 TCAGGAACTTCGCCAAGAGCCTAGAGGGCTGGCTCATCAATGCCATGAGTGGCTTCCCTCAGCAGGTCTAT
 CCAGACCAAGGTGGGTGTTGTAAGTGCCTTCGCACAGACACTGCGGCGCTACACGTCCCTCAACCACCTG
 GCGCAGGCGGCACGTGCTGTGTTGCAGAACACGTACAGATTAACCAGATGCTGAGTGACCTCAACCGCG
 TGGACTTTGCCAATGTGCAGGAGCAGGCCTCGTGGGTGTGCCAGTGTGAGGAGAGCCTGGTGCAGCGTTT
 GGAGCATGACTTCAAGGTCACCTGCAGCAGCAGAGCTCGCTGGACCAGTGGCCAGCTGGCTAGACAAC
 GTGGTCACCCAGGTCTGAAGCAGCACTCAGGCAGCCCCAGCTTCCCAAGGCTGCGCGCCAGTTCTCTGC
 TCAAGTGGTCCTTCTACAGCTCCATGGTGATCCGTGACCTGACCTGCGCAGTGCTGCCAGCTTCGGTTC
 CTTCCACCTCATCCGGCTGCTCTATGACAGTACATGTTCTACCTGGTGGAGCACCGTGTGGCCAGGCC
 ACCGGGGAGACGCCATTGCCGTATGGGCGAGTTCAACGATCTGGCCTCCCTGTCACTGACCCTGCTGG
 ACAAGAGAGGACATTGGGGATGGACACAGCAGTGAAGCAGATGTGGATGGCCGAGCCTGGGTGAGCCCT
 CGTGAAACGGGAACGGAGTGACCCAGCCACCCACTGCAGGGCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210076 representing NM_009056
 Red=Cloning site Green=Tags(s)

MQNSEGGADSPASVALRPAAQMPASPQRVLVQAAGSTPKGTPMQLTLPRVQPVPPQVQHVPYPAQVQYV
 EGGDAVYANGAIRAAYAYNPDPQLYAPSSAASYFETPGGTQVTVAASSPPAVPSHGMVGITMDVSGTPIV
 SGAGAYLIHGGMDGTRHSLAHTARSSPATLQWLLDNYETAEGVSLPRSSLYNHYLKHCQEHKLEPVNAAS
 FGKLIRSVFMGLRTRRLGTRGNSKYHYGIRLKPDSPLNRLQEDTQYMAMRQQPTHQKPRYRPAQKSDSL
 GDGSAHSNMHGMPDQAMATQGQHHQQYIDVSHVFPEFPAPDLGSTLLQESVTLHDVKALQLVYRRHCEAT
 LDVVMNLQFYIEKLWLSFWNCKATSSDSCASLPASDEDPEVTLLPKEKLISLCKCEPILQWMRSCDHIL
 YQTLVETLIPDVLRPVPSSTQAIRNFAKSLEGWLINAMSGFPQQVIQTKVGVSFAQTLLRRYTSLNHL
 AQAARAVLQNTSQINQMLSDLNRYDFANVQEQASWVCQCEESLVQRLEHDFKVTLLQQSSLDQWASWLDN
 VVTQVLKQHSGSPSPFKAARQFLKWSFYSSMVIRDLTLRSAASFGSFHLIRLLYDEYMFYLVHRVAQA
 TGETPIAVMGEFNDLASLSLTLLDKEDIGDGHSSSEADVDGRSLGEPLVKRERSDP SHPLQGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9047_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009056

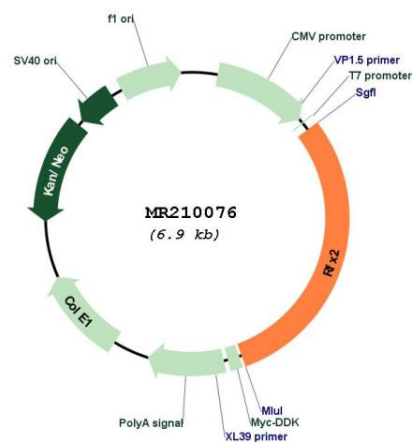
ORF Size: 2076 bp

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_009056.2</u> , <u>NP_033082.1</u>
RefSeq Size:	3278 bp
RefSeq ORF:	2079 bp
Locus ID:	19725
UniProt ID:	<u>P48379</u>
Cytogenetics:	17 29.5 cM
MW:	77 kDa
Gene Summary:	Transcription factor that acts as a key regulator of spermatogenesis (PubMed:26248850, PubMed:26162102, PubMed:26853561). Acts by regulating expression of genes required for the haploid phase during spermiogenesis, such as genes required for cilium assembly and function (PubMed:26162102, PubMed:26853561). Recognizes and binds the X-box, a regulatory motif with DNA sequence 5'-GTNRCC(0-3N)RGYAAC-3' present on promoters (PubMed:15229132, PubMed:26162102). Probably activates transcription of the testis-specific histone gene HIST1H1T (PubMed:15229132).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210076