

Product datasheet for **MC200173**

Rfx2 (NM_009056) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfx2 (NM_009056) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rfx2
Synonyms:	5430432H19Rik
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>BC004654 sequence for NM_009056
 CCCACGCGTCCGGGAGCGGCCGGCCGCCACCGCCGCCATAGAGACTGTAGCCGTGGAGACTGTTA
 CTTACCAACGCGGAGCGACACGCAGCGGCCGACCGCGGGAGCCGCTACCGAACTCCCTGCCAACTC
 CAGATCCCAGCATGCAGAACTCCGAGGGAGGAGCAGATTCCGCAGCGTCAGTGGCTCTGCGTCTGCAGC
 CCAGCCCATGCCAGCCTCCCCACAGAGGGTGTGGTCCAAGCTGCAGGCTCCACTCCCAAGGGTACCCCG
 ATGCAGACACTCACCTCCCCAGAGTCCAGCCAGTGCCACCACAGGTGCAGCACGTGTACCCCGCCAGG
 TGCAGTACGTGGAGGGTGGGACGCTGTCTACGCCAACGGAGCCATCCGAGCTGCCACGCTACAACCC
 AGACCCTCAGCTTACGCCCCAGCAGCGCAGCATCTTACTTTGAGACTCCAGGTGGCACTCAGGTGACG
 GTGGCAGCCTCATCCCCACTGCAGTCCCTCCCACGGCATGGTGGGCATCACCATGGACGTCTCGGGGA
 CCCCCATTGTGTCTGGCGCAGGAGCCTACCTCATCCATGGGGCATGGACGGCACAAGACTCTCTGGC
 CCACACTGCACGATCCTCACCTGCCAGCTCCAGTGGCTTCTGGACAATTACGAGACAGCGGAGGGTGTG
 AGCCTGCCCGCAGCTCCCTGTACAACACTACCTGCGCCACTGCCAGGAGCACAAGCTGGAGCCAGTCA
 ATGCCGCATCCTTTGGCAAACCTCATCGCTCTGTGTTTCATGGGCTGCGCACACGACGCCTGGGGACCAG
 GGGCAACTCAAAGTACCATTACTATGGGATCCGCCTGAAGCCAGACTCCCCTGAAACCGACTGCAGGAA
 GACACACAGTACATGGCCATGAGGCAGCAACCCACACACCAGAAGCCTAGGTATCGGCCAGCCAGAAGT
 CAGACAGCCTCGGGGATGGCAGCGCTCACAGCAACATGCACGGCATGCCGATCAGGCCATGGCCACCCA
 GGGCCAGCATCACCAGCAGTACATAGATGTGTCCACGTCTTCCCAGAGTTCGGCCACCTGACCTAGGC
 AGCAGCCTACTGCAGGAGAGCGTCACCTTTCATGATGTGAAGGCCCTGCAGCTGGTGTATCGCAGGCACT
 GTGAGGCTACCTTAGATGTGTCATGAACCTCCAGTTTTCAGTACATTGAGAAGCTCTGGTTGTCCTTCTG
 GAACTGCAAGGCCACCTCCAGCGATAGCTGTGCCTCGCTGCCAGCGATGAGGACCCAGAAGTCAAC
 CTCTCCCTAAGGAGAAGCTCATCTCTGTGTAATGTGAGCCGATCCTACAGTGGATGCGAAGCTGCG
 ATCACATCCTGTACCAGACGCTGGTGGAGACCTTATCCCAGATGTGCTGCGGCCTGTCCCAGTTCCTT
 CACCCAGGCCATCAGGAACTTCGCCAAGAGCCTAGAGGGCTGGCTCATCAATGCCATGATGGCTTCCCT
 CAGCAGGTTCATCCAGACCAAGGTGGGTGTGTAAGTGCCTTCGCACAGACTGCGGCGCTACACGTCCC
 TCAACCACCTGGCGCAGGCGGCAGTGTGTTGCAGAACACGTACAGATTAACCAGATGCTGAGTGA
 CCTCAACCGCGTGGACTTTGCCAATGTGCAGGAGCAGGCCTCGTGGGTGTGCCAGTGTGAGGAGAGCCTG
 GTGCAGCGTTTGGAGCATGACTTCAAGGTCAACCTGCAGCAGCAGAGCTCGTGGACAGTGGGCCAGCT
 GGCTAGACAACGTGGTCAACCCAGGTCCTGAAGCAGCACTCAGGCAGCCCCAGCTTCCCCAAGGCTGCGCG
 CCAGTTCCTGCTCAAGTGGTCTTCTACAGCTCCATGGTATCCGTGACCTGACCCTGCGCAGTGTGCTGCC
 AGCTTCGGTTCCTTCCACCTCATCCGGTGTCTATGACGAGTACATGTTCTACCTGGTGGAGCACCGTG
 TGGCCAGGCCACCGGGAGACGCCATTGCCGTATGGGCGAGTTCAACGATCTGGCCTCCTGTCACT
 GACCCTGTGGACAAAGAGGACATTGGGGATGGACACAGCAGTGAGGCAGATGTGGATGGCCGACGCTG
 GGTGAGCCCTCGTGAACCGGGAACGGAGTGACCCAGCCACCCACTGCAGGGCATCTAGCCCTTCCCT
 GGGCGTCTTCCACGTGCTTCCGGAAGGCGTCACCTGGCCCTTAGGGACCTGGACTCTCAGCTGTATCAC
 ACTAGTGCCTCTTCAATGATGCCATGTTTACTGTGACCAAGGTGGCATGGGGTCCCCACCCACAGGGTG
 CCAGAGACTGTGGGCAACTAAGATGGTCACTCAAGCTGCCATACTCTGTAAAGTGGCCCTGACCCTGGG
 CTGTCCCCAAAGGATACAGCAGCCTGTGTGTATGTGAGTTGTGGGGCACATCCCCAGAAATGTCCC
 AACCACTCGGTGGCTTCCCCTCAGCTAACCACCATGTCAAAGAAAAACCACTCCAACAGAGCCAGAG
 GGGTAGGAGCCTACTATTCTTGCCATTGTGTGGAGGCTCTGCAGGTCCCCTGCGCTGTAGTCTCCAT
 GCATCTAATGGCCTCTCATGGACAGCCAAGAACTCCAGGCACACACCCTGGATACATGCTAACGGCATCT
 CATCTCATCCTGGACAGGTCCAAGCCCCAAGAGATAACAGGCTCCAAGCAGGGCCAGTCAAGCCAGAT
 GATCGACCATCTGCTTGACTATAGACTTTCTGTCCAATTTCATGGTTAATACCAAGATAACCTGGGGGGC
 CTGTGTTAGGGTTCCCCAAGTAGCCACAGGGGTGAGCACCATAACCAGCCTCCCCAACAAAACCTCAAAA
 CCTGTGCTCAGGGCAGTGCCTGAGCCCTGCAGTCTTCCAGACACCTCCCCAACTAGCCATGCTTGTCT
 GCTGGCCAGTGGCAACCCCTTCTCAACCCTAGACCATGAGATCTCTGCAGACAAATGAACCAATGCC
 TATTGGGCCCTGAGTTCTAGAGGCCCTAACATGTTACACCTTGTGCTGTGCTCATGTTGAGAATCTTT
 CCCAACACAAGCCCTGCCCTCCCACACCTAGGAAGCGCCTAATGAAATATGATAGTTTTTTTTTTTTTGA
 AAAACTGGGGCCCCCAATAGTTCTGTGCTGTAATTGTTCTTAGAAGGTTCTTATGAATGTGTCCATCGCA
 ACATAAAAAAAAAAAAAA

Restriction Sites:

RsrII-NotI

ACCN:	NM_009056
Insert Size:	2079 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:	BC004654 , AAH04654
RefSeq Size:	3309 bp
RefSeq ORF:	2079 bp
Locus ID:	19725
UniProt ID:	P48379
Cytogenetics:	17 29.5 cM
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>