

Product datasheet for **RN208808**

Rfx2 (NM_001106877) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfx2 (NM_001106877) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Rfx2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>RN208808 representing NM_001106877

Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGC**

ATGCAGAACTCCGAGGGAGGAGCAGACTCGCCTGCCACAGTGGCTCTGCGTCCTGCAGCCCAGCCTGTAC
CAGCCTCCCCACAGAGGGTGCTGGTACAAGCCGAGGCTCCACTCCCAAGGGTACCCGATGCAGACACT
CACCCTCCCCAGAGTCCAGCCAGTGCCACCACAGGTGCAGCACGTGTACCCCGCAGAGTGCAGTACGTG
GAGGGTGGGGATGCTGTCTACGCCAACGGAGCCATCCGAGCCGCCTATACCTACAACCCAGACCCTCAGC
TCTACGCCCCCAGCAGCGCAGCTTCTTACTTTGAGACTCCAGGTGGCGCTCAGGTGACGGTGGCAGCCTC
GTCCCCACCAGCGGTTCCCTCCACGGCATGGTGGGCATCACCATGGATGTCTCAGGGACCCCCATTGTG
TCTGGCGCAGGAACCTACCTCATCCACGGGGCATGGACAGCACAAGACACTCCCTGGCCACACTGCC
GCTCGTCACTGCCACGCTCCAGTGGCTTCTGGACAATTACGAGACAGCAGAGGGTGTGAGCCTGCCCG
CAGCTCCCTGTACAACCACTACCTGCGCCACTGCCAGGAGCACAAGCTGGAGCCAGTCAATGCTGCATCC
TTCGGCAAGCTCATCCGCTCTGTATTATGGGCTGCGCACACGACGCTTGGGGACAGGGGCAACTCAA
AGTACCATTACTATGGGATCCGCTGAAGCCAGACTCACCACTGAATCGACTGCAGGAAGACACACAGTA
CATGGCCATGAGGCAGCAGCCCACGCACCAAGCCTAGGTATCGGCCAGCCAGAAAGTGCAGACGCCTC
GGGGATGGCAGTGCTCACAGCAACATGCACAGCACACCCGAGCAAGCCATGGCCGCCAGGGCCAGCATC
ACCAGCAGTACATAGATGTGTCCACGCTTCCAGAGTTCACAGACCTGACCTAGGCAGCAGCTTACT
GCAGGAGAGTGTACCCCTCATGATGTGAAGGCCCTGCAGCTGGTGTATCGCAGGCACTGTGAGGCCACC
TTAGATGTCTGTCATGAACCTCCAGTTTCAGTACATTGAGAAGCTGTGGTTGTCTTCTGGAAGTGAAGG
CCACCTCCAGTGATGGCCGTGCCTCGCTGCCTGCCAGCGACGAGGAGCCTGAAGTCAACCTCCTCCCAA
GGACAAGCTCATCTCTCTGTGTAAGTGTGAGCCATCCTGCAGTGGATGCGCAGCTGCGATCACATCCTG
TACCAGGCGCTGGTGGAGACCCTCATCCAGACGTGCTACGGCCCGTGGCCAGTTCCTCACACAGGCCA
TCAGGAAGTTCGCCAAGAGCCTGGAGGGCTGGCTCATCAATGCCATGAGTGGCTTCCTCAGCAGGTGAT
CCAGACCAAGGTGGGTGTTGTAAGTGCCTTTCACAGACACTGCGGCGCTACACGTCCCTCAACCACCTG
GCACAGGCAGCAGTGCCGTGCTACAGAATACGTACAGATTAACCAGATGCTGAGTGACCTCAACCGCG
TGGACTTTGCCAATGTGAGGAGCAGGCCTCATGGGTGTCCAGTGTGAGGAGAGCCTGGTGCAGCGTTT
GGAGCATGACTTCAAGGTCAACCTGCAGCAGCAGAGCTCGCTGGACCAATGGGCCAGCTGGCTGGACAAT
GTGGTCAACCCAGTACTGAAGCAGCATGCAGGCAGCCCCAGCTTCCCAAGGCTGCACGGCAGTTCTCTGC
TCAAGTGGTCCTTCTACAGCTCCATGGTAATCCGGGACCTGACCTGCGCAGCGCTGCCAGCTTTGGCTC
CTTCCACCTCATCCGCTGTTGTATGACGAGTACATGTTCTACCTGGTGGAGCACCGTGTGGCCAGGCC
ACCGGGGAGACACCCATTGCTGTGATGGCGAGTTCAATGACCTGGCGTCCCTGTGCTGACCTGCTGG
ACAAAGAGGACATTGGGGACGGACACAGCAGTGAAGCAGATGTGGATGGCCGAGCCTGGGCGAGCCCT
GGTGAAGCGGGAACGGAGTGACCCAGCCACCCACTGCAGGGCAT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001106877

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:	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>NM_001106877.1, NP_001100347.1</u>
RefSeq Size:	3147 bp
RefSeq ORF:	2079 bp
Locus ID:	301121
UniProt ID:	<u>B2GV50</u>
Cytogenetics:	9q12
Gene Summary:	Transcription factor that acts as a key regulator of spermatogenesis (By similarity). Acts by regulating expression of genes required for the haploid phase during spermiogenesis, such as genes required for cilium assembly and function (By similarity). Recognizes and binds the X-box, a regulatory motif with DNA sequence 5'-GTNRCC(0-3N)RGYAAC-3' present on promoters (PubMed:14743396, PubMed:15526285, PubMed:16676351, PubMed:18247329). Probably activates transcription of the testis-specific histone gene HIST1H1T (PubMed:14743396, PubMed:15526285, PubMed:16676351, PubMed:18247329). [UniProtKB/Swiss-Prot Function]