

## Product datasheet for **RR210364**

### **Atf2 (NM\_031018) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Atf2 (NM_031018) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atf2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR210364 representing NM\_031018  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGTGTGACAAACCTTTCTATGCACTGCCCTGGGTGTGGCCAGCGTTTTACCAACGAGGATCATT  
 TGGCTGTCCATAAACATAAACATGAGATGACACTGAAATTTGGTCCAGCACGTAATGACAGTGTCATTGT  
 GGCTGATCAGACTCCAACACCAACAAGTTCTAAAAAAGTGTGAAGAAGTGGGTTTGTAAATGAGTTG  
 GCAAGTCCATTCGAGAATGAATCAAGAAGGCTTCAGAAGATGACATAAAAAAATGCCTCTAGATCTGT  
 CCCCTCTTGCAACACCCATCATAAGAAGCAAAATGAGGAACCTTCTGTTGTAGAAAACACTCACCAGGA  
 TAGCCCGTTACCTCACCCGAGTCTACTACCAATGATGAAAAGGAAATACCATTGGCACAAACTGCACAG  
 CCCACATCAGCTATCGTTCGTCAGCATCATTACAGGTTCCCAATGTGCTGCTCACAAAGTTCTGACTCAA  
 GTGAATATTCAACAAGCAGTACCTTCACCAACCTCAAGTACTGTAATCACCCAGGCACCATCTCTAA  
 CAGGCCAATTGTTCTGTACCAGGCCATTTCTCTTCTATTACATCTTCTAATGGACAAACCATGCC  
 GTTGCTATTCTGCATCAATTACAAGTTCTAATGTGCATGTTCCAGCTGCAGTCCCACCTGTTCCGGCCAG  
 TCACCATGGTGCCTAGTGTTCAGGAATCCCAGGCCCTTCTCTCTCAACCCGGTCCAGTCAGAAGCAAA  
 AATGAGATTTAAAGCTGCTTTGACCCAGCAACACCCTCCAGTTACCAATGGTGATACTGTAAAAGGCCAC  
 GGCAGTGGATTGGTTAGGGCCAGTCAGAAGAGTCTCGTCCACAGTCTTGCAGCAGCCAGCCACGTCCA  
 CTACAGAGACTCCGGCTCTCCAGCTCACACAACCTCCACAGACCCAAAATACAAGTGGCCGTGGAAGAAG  
 AGCAGCTAATGAAGATCCTGATGAGAAAAGGAGGAAGTTCTAGAACGAAATAGAGCAGCAGCTTCAAGA  
 TGCCGTCAAAAAGGAAAGTATGGGTTCACTTCTAGAGAAGAAAGCAGAAGACTTGAGCTCACTAAATG  
 GCCAGCTGCAGAGCGAAGTCAACCTGCTGAGAAAATGAAGTGGCACAGCTGAAACAGCTTCTCTGGCTCA  
 TAAAGATTGCCCTGTAACCGCCATGCAGAAGAAGTCTGGCTATCATACTGCTGATAAAGATGACAGCTCA  
 GAAGACCTTTCCGTGCCAAGCAGCCACATACAGAAGCGATCCAGCACAGCTCTGTCAAGTACGTCCAATG  
 GAGTCAAGTCAACATCAAAAACAGAAGCTGGAGCCACTTCAGTTCTCACCCAGATGGCGGACCAGAGCAC  
 CGAGCCTGCATTTACAGATTGTATGGCTCCTTCTCCAGGCACAGCCCTCAGGAAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR210364 representing NM\_031018  
 Red=Cloning site Green=Tags(s)

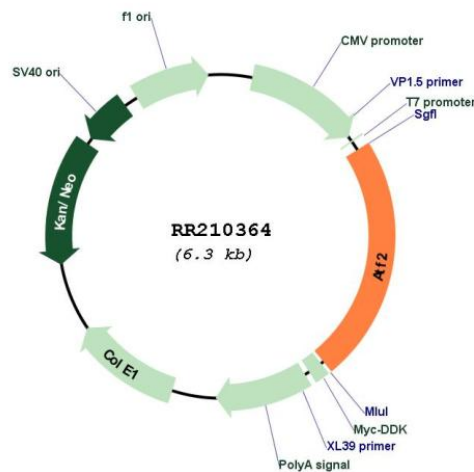
MSDDKPFLLCTAPGCGQRFNEDHLAVHKKHHEMTLKFGPARNDSVIVADQTPTRFLKNCEEVGLFNEL  
 ASPFENEFFKASEDDIKMPLDLSPATPIIRSKIEEPSVVETTHQDSPLPHPESTTNDKEIPLAQTAAQ  
 PTAIVRPASLQVPNLLTSSDSSVIIQQAVPSPTSSTVITQAPSSNRPIVPVPGPFLLLHLPNGQTMP  
 VAIPASITSSNVHVPAAVPLVRPVTMVPSVPGIPGPSSPQPVQSEAKMRLKAAL TQQHPPVTNGD TVKGH  
 GSGLVRAQSEESRPQSLQQPATSTTETPASPATTPQTQNTSGRRRRAANEDPDEKRRKFLERNRAAASR  
 CRQKRKVVVQSLKKAEDLSSLNGQLQSEVTLLRNEVAQLKQLLLAHKDCPVTAMQKSGYHTADKDDSS  
 EDLSVPSSPHTEAIQHSSVSTSNGVSSTSKTEAGATSVLTQMDQSTEPALSQIVMAPSSQAQPSGS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


**ACCN:** NM\_031018

**ORF Size:** 1461 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.

**RefSeq:** [NM\\_031018.1](#), [NP\\_112280.1](#)

**RefSeq Size:** 1852 bp

**RefSeq ORF:** 1464 bp

**Locus ID:** 81647

**UniProt ID:** [Q00969](#)

**Cytogenetics:** 3q23

**MW:** 52.3 kDa

**Gene Summary:** transactivates tyrosine hydroxylase transcription; may be involved in regulation of catecholamine synthesis during neural development [RGD, Feb 2006]