

## Product datasheet for **RR207657**

### Atf4 (NM\_024403) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Atf4 (NM_024403) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Atf4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR207657 representing NM_024403 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACCGAGATGAGCTTCTGAACAGCGAAGTGTGGCGGGGACTTAATGTCCCCCTCGACCAGTCCG  
GTTTGGGGCTGAAGAAAGCCTAGTCTCTTAGATGACTATCTGGAGGTGGCCAAGCACTCAAACCTCA  
TGGTTCTCCAGCGACAAGCGGGCTCCTCAGAATGGCTGGCTATGGATGGGTTGGTCAGTGCCTCAGAC  
ACCGGCAAGGAGGATGCCTTTCCGGGACAGATTGGATGTTGGAGAAAATGGACCTGAAAGAGTTTGACT  
TCGATGCTCTGTTTCGAATGGATGACCTGGAAACCATGCCAGATGAGCTTTGGCCACGTTGGATGACAC  
ATGTGATCTTTTTGCCCTCTAGTCCAAGAGACTAATAAGGAGCCCCCTCAGACAGTGAACCAATTGGC  
CATCTCCAGAAAGTGAATAAAAGTCGACCAGGCTGCCCTTTACATTCTTGCAGCCTCTTCCCTGTT  
CCCCAGGGTTTCTGTCTTCCACTCCAGATCATTCTTTAGTTTAGAGCTGGGAAGTGAGTTGATATCTC  
TGAAGGAGATAGGAAGCCTGACTCTGCTGCTTATATTACTTAACCCCTCAGTGTGTAAGGAGGAAGAC  
ACTCCCTCTGATAGTGACAGTGGCATCTGTATGAGCCCTGAGTCCTACCTGGGCTCTCCCAACACAGCC  
CTTCCACCTCCAGGGCCCCACCAGACAGTCTGCCTTCTCCAGGTGTTCTCGTGGTTCTCGACCCAAACC  
TTATGACCCACCTGGAGTTAGTGTGACAGCTAAAGTGAAGACTGAAAAGTTGGATAAGAAGCTGAAAAG  
ATGGAGCAAAACAAGACAGCAGCTACTAGGTACCGCCAGAAGAAGAGGGCTGAGCAGGAAGCCCTACTG  
GCGAGTGTAAAGAGCTAGAAAAGAAGACGAGGCTCTGAAAGAGAAGGCAGATTCTCGCCAAAGAGAT  
TCAGTATCTAAAAGACCTGATAGAAGAGGTCGTAAGGCAAGGGGGAAGAAGAGAGTTTCCT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR207657 representing NM\_024403  
 Red=Cloning site Green=Tags(s)

MTEMSFLNSEVLAGDLMSPFDQSGLGAEESLGLDDYLEVAKHFKPHGFSDDKAGSSEWLAMDGLVSASD  
 TGKEDAFSGTDWMLEKMDLKEFDLFRMDDLETMPDELLATLDDTCDLFAPLVQETNKEPPQTVNPIG  
 HLPESVIKVDQAAPFTFLQPLPCSPGFLSSTPDHSFLELGSEVDISEGDRKPDAAAYITLTPQCVKEED  
 TPSSDSDSGICMSPESYLGSPQHSPSTRAPPDLSLSPGVPRGSRPKPYDPPGVSVTAKVKTEKLDKLLKK  
 MEQNKTAATRYRQKKRAEQEALTGECKELEKNEALKEKADSLAKEIQYLKDLIEEVRKARGKKRVP

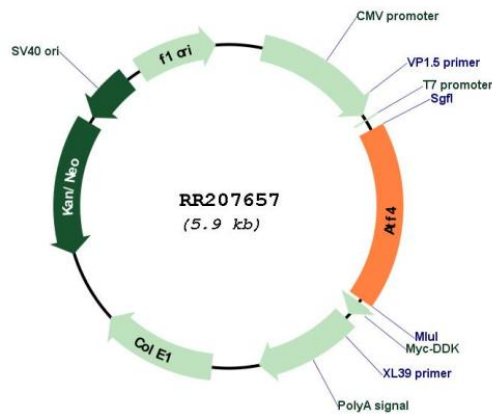
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_024403

<b>ORF Size:</b>	1041 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_024403.2</a> , <a href="#">NP_077379.1</a>
<b>RefSeq Size:</b>	1410 bp
<b>RefSeq ORF:</b>	1044 bp
<b>Locus ID:</b>	79255
<b>UniProt ID:</b>	<a href="#">Q9ES19</a>
<b>Cytogenetics:</b>	7q34
<b>MW:</b>	38.2 kDa
<b>Gene Summary:</b>	binds GABA(B) receptors; may play a role in regulation of activity dependent gene expression [RGD, Feb 2006]