

## Product datasheet for **RR200580**

### **Aup1 (NM\_001079899) Rat Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Aup1 (NM\_001079899) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Aup1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR200580 representing NM\_001079899  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGAACCTCCCCAGCTCCGGGGCCGAGCGGCTCTTTGACTCGCACCGGCTCCCGAGTGACGGCTTCC  
TGCTGCTCGCGCTATTGCTCTACGCGCCGGTCGGCCTCTGCCTCCTGGTCTCGACTCTTCTCCGGCT  
CCACGCTTCTGGTCAGCTGTGCTCTTCTGACAGCTCCTCCGAGGTTTCGTGGTACGAACCATGTGT  
GCGGTA CTGGGGCTCGTGGCCCGACAGGAGGACTCCGGACTCCGGATCACCGCGTCAGGGTCCTTATTT  
CCAACCATGTAACACCTTTTGACCACAACATAGTCAACCTTCTACCACCTGTAGCACCCCTCTACTCAA  
TAGTCCCCCAGCTTTGTATGTTGGTCTCGGGGCTTCATGGAGATGGATAGGCGGGTGGAGTTGGTGGAG  
TCACTCAAGAAATTCTGTGCTTCCACGAGGCTTCCACCCACACCTTTGCTGCTCTCCCCGAGGAAGAGG  
CCACCAATGGCCGAGAAGGGCTCCTGCGTTTCAGTTTCGTGGCCATTTTCTATCCAGGATGTGGTACAACC  
TCTTACCCTACAAGTTCAGAGACCCTGGTCTCTGTGACGGTGTGAGATGCCTCCTGGGTCTCAGAAGT  
CTGTGGTCACTTTTCGTCCCTTTCACGGTGTATCAAGTAAGTGGCTTCATCCATTTCGTGACAGCTGG  
GGGAAGAGAATGAGGAGTTTGCCTCCGTGTACAACAGCTGGTGGCCAAAGAATTGGCCAGATAGGGAC  
ACGGCTCACGCCAGCAGACAAAGCAGAACATGAAGCGACAGAGACACCCAGATTACGCCCCAGTCA  
GTGCAGTCTTCTTTCTCTCCTCCAGCCCTTCTTCTGATGTGCAACTGACCATTCTCGCTCAAAGAG  
TCAAGGAGGTTTTGCCCATGTGCCATTGAATGTATCCAGAGAGACCTGGCTAGGACTGGGTGTGTAGA  
CTTGACCATCACCAATCTGCTTGAGGGGGCTGTGGCTTTCATGCCTGAAGATGTCACTGAGGGATCTCAG  
TCCCTGCCACAGCCTCTGCCCCAAAGTCCCCAGCTCTGGCCTGGTGACCCCTCAGCCACAGCCCTAA  
CATTTGCCAAGTCTTCTGGGCCGTGAGGAGCCTGCAGGAGCGCAAGCAGGCACTGTATGAATATGC  
AAGAAGGAGATTCAGAGAGAGACAGGCCAGGAGGCTGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RR200580 representing NM\_001079899  
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MEPPPAPGPERLFDShRLPSDGFLLLALLLYAPVGLCLLVLRFLGLHVFLVSCALPDSVLRFRFVVRTMC  
 AVLGLVARQEDSGLRDHRVRLISNHVTPFDHNI VNLTTTCSTPLLNSPPSFVCWSRGMEMDRRVELVE  
 SLKKFCASTRLPPTLLLFPEEEATNGREGLLRFSSWPF SIQDVVQPLTLQVQRPLVSVTVSDASWVSEL  
 LWSLFVPFTVYQVRWLHPIRRQLGEENEAFALRVQQLVAKELGQIGTRLTPADKAEHMKRQRHPRLRPQS  
 VQSSFPSPSPSSDVQLTILAQRVKEVLPHVPLNVIQRDLARTGCVDLTITNLLEGAVAFMPEDVTEGSQ  
 SLPTASAPKFPSSGLVTPQPTALTFAKSSWARQESLQERKQALYEYARRRFRERQAQAE

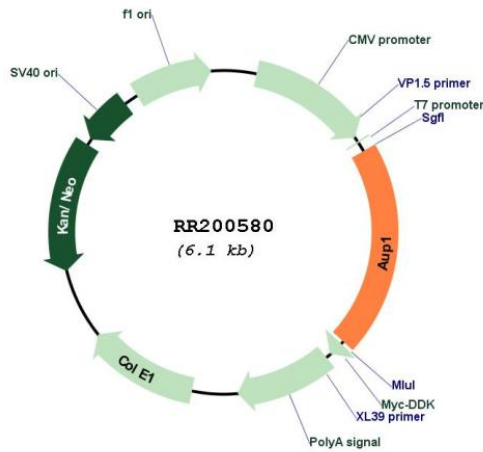
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001079899

<b>ORF Size:</b>	1230 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<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>	<u><a href="#">NM_001079899.1</a></u> , <u><a href="#">NP_001073368.1</a></u>
<b>RefSeq Size:</b>	1451 bp
<b>RefSeq ORF:</b>	1233 bp
<b>Locus ID:</b>	680423
<b>UniProt ID:</b>	<u><a href="#">A1L134</a></u>
<b>Cytogenetics:</b>	4q34
<b>MW:</b>	46.2 kDa
<b>Gene Summary:</b>	<p>May play a role in the translocation of terminally misfolded proteins from the endoplasmic reticulum lumen to the cytoplasm and their degradation by the proteasome.</p> <p>[UniProtKB/Swiss-Prot Function]</p>