

## Product datasheet for **RR206199**

### Ambra1 (NM\_001134341) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ambra1 (NM\_001134341) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Ambra1  
**Synonyms:** Nyw1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR206199 representing NM\_001134341  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGGATCGCC

ATGAAAGTTGTCAGAGAAGAATGCTGTACGAATCCTCTGGGGCCGAGAGCGGGGCACTCGTGCCATGG  
 GTGCCAGCGGCTTCTGCAGGAGCTGGTGGAGGATAAGACTCGATGGATGAAATGGGAGGCAAGAGAGT  
 AGAACTTCTGATAGTCCACGCTCGACCTCTTACTGGCCTTCAGCCAGACAGGACTCTTTGGCGTCC  
 ACACATGTGAACCATAACATCTATATTACAGAGGTTAAGACTGGCAAGTGTGTTCACTCTCTGATTGGAC  
 ACCGCGTACTCCATGGTGTGCACTTTTCATCCCACTATCTCAGGCCTATTGCTTCTGGCTGCCTAGA  
 TGGGGAAGTTAGGATTTGGGACTTACATGGTGGCAGTAAAAGCTGGTTCACAGATAGCAACAATGCCATA  
 GCTTCTTTGGCTTTCCACCCTACGGCTCAGCTCCTGCTGATCGCCACTGCAAATGAGATCCATTTCTGGG  
 ATTTGAGTCGTCGGGAACCCTTTGCTGTGGTAAAACAGCTAGTGAGATGGAGCGTGTTCGTCGTTGAG  
 ATTTGATCCACTTGGACACTACTTACTTACAGCTATTGTTAACCCCTCTAATCAGCAGGGTGATGATGAA  
 CCAGAAATCCCTATAGATGGAACAGAATTATCTCATTACCGTCAGCGTGCCCTCCTGCAATCACAGCCAG  
 TTCGCCGGACACCCCTCCTCCACAATTTCTGCATATGCTGTCCCTCCGCTCCTCTGGCATCCAGGTGGG  
 AGAGCAAAGCACAGTACAAGATTCTGTACCCCTCACCCCAACCGCCTCCCTCAGCCCTCACGGAG  
 CGTCCCAGGACTTCCGCTTACATCAGACTCCGACAGCGGGTCAGTTACCCACCACAGTTGAGTGTGCC  
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 GGACAGTGTCCCTCCTGCTTCTGCCAGAGCTACTACCCCTTCTTTTCTTTGTACAGACCGAGCCCTTC  
 CATCCCCGGAGCAGGCTTCATCAACGCAGCAGGACCAAGGCCTCCTGAACCGGCCGTCTGCCTTCAGTA  
 CAGTCCAGAGCAGCACTGCGGGCAACACGCTCCGCAACCTCAGTCTGGTCTACCCGTCGCTTTGGG  
 GGGCCACTGTCCAGCCACCCATCTAGGTATCACAGAGAACTAGCCCTGGGCTGACAGGTTCTGAGTGG  
 ACCCGGACAGTACTCACTCTGAACCTCACGTTCTGAGGTAGAATCTATGCCCCACCGAGGACCAGTGCCT  
 CCTCAGTGAGTTTGTCTTCTGTACTGAGACAGCAGGAAGGTGGCTCTCAGGCATCTGTGTATACTTCAGC  
 CACAGAAGGGAGGGGTTTTCCATCATCAGGTTGGCAACTGAGTCAGATGGAGGGAATGGTTCAGCCAA  
 AACAACTCAGGCAACATTCGCCATGAGCTTCAGTGTGACCTGAGACGCTTTTTTTTGGAGTATGACAGGC



TGCAGGAGCTGGATCAGAGCCTGAGTGGGGAACTCCCCAGACCCAACAGGCCAGGAAATGCTCAACAA  
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CTTTCTCGGGCCACCTTAATCGATGCCGTGCTTGCCATAATCTTCTAACCTTCAACAATGATACCCTTC  
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TGAGGGCATGCCACCGAGTGGCAACCACTACCACCTCTTGAGCGGACTGAGGGCCAAATGCCTAACTCC  
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TTATGCTGGGATTTTTCATGAGCGTGGACAGCCTGGCTTGGCTACTCATTCTTCTGTTAACAGGGTCTG  
GCAGGGCAGTAATTGGAGATGGACAGTCTGCTGTGGCCAGTAACATTGCCAATACTACCTACAGGCTCC  
AGTGGTGGGACTTCAACCAAGTTTGACCTTCCAGAAATCAGTAATGCCTCGTGAATGTCCCTGGTACAGAA  
CTGCAAGATCTACAATGATGCCAGCTGTGACATTTCTGCAGATGGCCAGCTCCTGGCAGCTTTCATCCCG  
AGTAGCCAGAGGGGCTTTCCTGATGAAGGCATCCTGGCAGTGTATTCCCTGGCCCCCATAAATTGGGGG  
AAATGCTCTACACCAAGCGATTTGGTCCCAATGCCATTTCTGTAAGCCTGTCCCCAATGGGCCGATACGT  
TATGGTGGGCTTGGCCTCACGAAGGATCCTGCTGCACCCCTCTACAGAGCACATGGTAGCCAGGCTTTC  
AGGCTGCAGCAGGCCATGGTGGTGAGACTTCCATGAGGAGAGTTTTCAACGTCCTTTACCCATGCCTG  
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GACCAGCTAAATGAAACGGTCTTCACTGTCCACTCAAGTAGCAGGAGCAGCGAGCGCCTGGAACCAGCA  
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AGGGAGGAAGAGGAACCAGGGACAGCATCCTCAGGTCCTGGTGAAGGCGAGGGCTCGGAATATGGTGGCA  
GTGGGGAAGATGCCCTCAGCCGGATCCAGAGGCTAATGGCCGAGGGTGGCATGACAGCTGTGGTACAGCG  
AGAACAGAGTACCACCATGGCTCCATGGGTGGCTTCGGCAACAACATCATCGTTAGCCACCGCATTAC  
CGCAGCTCCAGACAGGCACAGAGTCAAGGGCTGCTCGTACCTCCTCACCCAGCCCTCCACCTCTCGAG  
GACTACTCTCAGAACCTGGGCAACTGGCAGAGCGAGGACTAAGCCCCGGACAGCCTCCTGGGACCAGCC  
TAGTACCTCTGGAAGGGAACACCCAGCCAGCCCTGTCTCTTCTCCCTGTCCCCATTCCAGTCCCC  
CTTGCCAGCAATGAGGGACCAACCATGCACTGCAATGTGACCAATAACAGTCACCTTCTGAGGGTGATA  
GTAGCAATGTGGGGGAAGCTGCAGGCCCTAGTGGGGAGCCACGGAACCGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR206199 representing NM\_001134341  
 Red=Cloning site Green=Tags(s)

MKVVPEKNAVRILWGRERGTRAMGAQRLLQELVEDKTRWMKWEKRVLPDSRSTFLLAFSPDRLLAS  
 THVNHNIIYITEVKTGKCVHSLIGHRRTPWCVTFHPTISGLIASGLDGEVRIWDLHGGSSEWFTDSNNAI  
 ASLAFHPTAQLLLIATANEIHFWDWSRREPFVAVKTASEMVRVLRFDPLGHYLLTAIVNPSNQGDDE  
 PEIPIDGTELSHYRQRALLQSQVRRTPLLHNFHLMLSSRSSGIQVGEQSTVQDSATPSPPPPPQPSTE  
 RPRTSAYIRLRQRVSYPTTVECCQHPGILCLCSRCAGTRVPSLLPHQDSVPPASARATTPSFVQTEPF  
 HPPEQASSTQQDQGLNRPSAFSTVQSSTAGNTRLRNL SLGPTRRSLGGPLSSHPSRYHRELAPGLTGSEW  
 TRTVLTLNSRSEVESMPPPTSASSVSLLSVLRQQEGGSQASVYTSATEGRGFSSGLATESDGGNGSSQ  
 NNSGNIRHELQCDLRRFFLEYDRLQELDQSLGETPQTQQAQEMLNNNIESERPGPSHQPTPHSSENNSN  
 LSRGHLNRCRACHNLLTFNNDTLRWERTTPNYSSGEASSWHVSTTFEGMPPSGNQLPPLERTEGQMPNS  
 SRLLELSSSASSQEERTVGVAFNQETGHWERIYQSSRSGTVSQEALHQDMPEESSEEDSLRRRLLESSLI  
 SLSDYDAGSREHPIYPDPARLSPAAYYAQRMIQYLSRRDSIRQRSMRYQQNRLRSSTSSSSDNQGPSV  
 EGTDLFEFDFEDNGDRSRHRAPRNARMSAPSLGRFVPRRFLLEPYLPYAGIFHERGQPLATHSSVNRVL  
 AGAVIGDQSAVASNIANTTYRLQWDFTKFDLPEISNASVNVLVQNCKIYNDASCDISADGQLLAIFIP  
 SSQRGFPEDEGILAVYSLAPHNLGEMLYTKRFGPNAISVLSMPGRYVMVGLASRRILLHPSTEHMVAQVF  
 RLQQAAGGETSMRRVFNVLYPMPADQRRHVSINSARWLPEPGLGLAYGTNKGDLVICRPEALNSGIEYYW  
 DQLNETVFTVHSSSRSSERPGTSRATWRTDRDMGLMNAIGLQPRNPTTSVTSQGTQTLALQLQNAETQTE  
 REEEEPGTASSGPGESEYGGSGEDALSRIQLMAEGGMTAVVQREQSTTMASMGFGNNIIIVSHRIH  
 RSSQTGTESGAARTSSPQPSTSRGLLSEPGQLAERGLSPRTASWDQPSTSGRELQPALSSSSPVPPIPV  
 LASNEGPTMHCNVTNNSHLPEGDSSNVGEAAGPSGEPNR

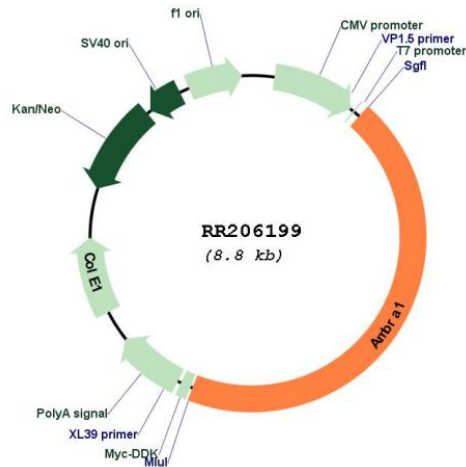
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001134341

**ORF Size:** 3900 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\\_001134341.1](#), [NP\\_001127813.1](#)

**RefSeq Size:** 5290 bp

**RefSeq ORF:** 3903 bp

**Locus ID:** 59319

**Cytogenetics:** 3q24

**MW:** 143 kDa