

Product datasheet for **RG233205**

AMBRA1 (NM_001267783) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AMBRA1 (NM_001267783) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: AMBRA1
Synonyms: DCAF3; WDR94
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233205 representing NM_001267783
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGTTGTCCAGAAAAGAATGCTGTCCGGATACTCTGGGGCGAGAACGGGGTGCTCGGGCCATGG
 GAGCTCAGCGGCTTCTGCAGGAGCTGGTAGAAGATAAAACCCGGTGGATGAAATGGGAGGGCAAGAGAGT
 AGAACTGCCGGATAGTCCACGCTCTACCTTCTTATTGGCCTTCAGCCCAGACAGGACTCTCTTAGCCTCC
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 ACCGCCGTAATCCATGGTGTGTCACCTTTTCATCCACCATCTCAGGCCTTATTGCTTCTGGCTGCCTAGA
 TGGGGAGGTTAGGATTTGGGATTTACACGGTGGCAGTGAAGCTGGTTCACAGATAGCAACAATGCCATT
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ACCCTGCGCTGGGAAAGAACCACACCTAACTACTCCTCTGGCGAGGCTAGTTCCTCTTGGCAGGTCCCCA
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CTGAGGGACCAACCCTCCACTGCGAGTTGACCAATAACAACCACCTTCTGGATGGTGGCAGCAGCAGGGG
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ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

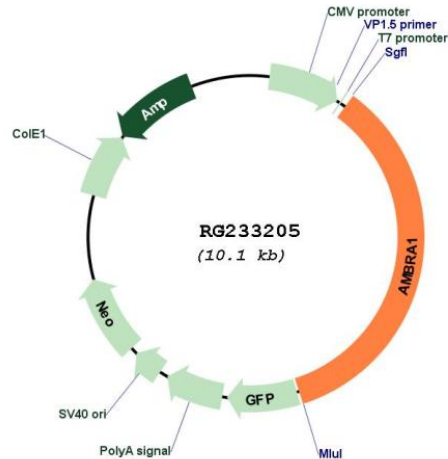
Protein Sequence: >RG233205 representing NM_001267783
 Red=Cloning site Green=Tags(s)

MKVVPEKNAVRILWGRERGARAMGAQRLLQELVEDKTRWMKWEKRVLPDSRSTFLLAFSPDRLLAS
 THVNHNIIYITEVKTGKCVHSLIGHRRTPWCVTFHPTISGLIASGCLDGEVRIWDLHGGSESWFTDSNNAI
 ASLAFHPTAQLLLIATANEIHFWDWSRREPFVAVKTASEMVRVLRFDPLGHYLLTAIVNPSNQQGDDE
 PEIPIIDGTELSHYRQRALLQSQPVRRTPLLLHNLHMLSSRSSGIQTEPFHPPEQASSTQQDQGLLRPSA
 FSTVQSSSTAGNLRNLSLGPTRRSLGGPLSSHPSRYHREIAPGLTGSEWTRTVLSLNSRSEAESMPPPRT
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 DRLQELDQSLSGEAPQTQQAQEMLNNNIESERPGPSHQPTPHSSENNNLNRGHLNRCRACHNLLTFNND
 TLRWERTTPNYSSGEASSWQVPSSFESVPSGSQLPPLERTEGQTPSSSRLELSSSASPQEERTVGVAF
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 YNDASCDISADGQLLAAPSSQRGFPDEGILAVYSLAPHNLGEMLYTKRFGPNAISVLSMPGRYVMVG
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 KGDLVICRPEALNSGVEYYWDLNETVFTVHSNSRSPGTSRATWRTDRDMLMNAIGLQPRNPATSV
 TSQGTQLALQLQNAETQTEREVPEPGTAASGPGESEYEGGEDALSRIQRLMAEGGMTAVVQREQS
 TTMA SMGGFGNNIIVSHRIHRSSQTGTEPGAHTSSPQPSTSRGLLPEAGQLAERGLSPRTASWDQPGTP
 GREPTQPTLPSSSPVPIVSLPSAEGPTLHCEL TNNHLLDGGSSRGDAAGPRGEPNR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI
Cloning Scheme:



Plasmid Map:


ACCN: NM_001267783

ORF Size: 3537 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_001267783.2](#)

RefSeq Size: 4949 bp

RefSeq ORF: 3540 bp

Locus ID: 55626

UniProt ID: [Q9C0C7](#)

Cytogenetics: 11p11.2

Gene Summary:

Regulates autophagy and development of the nervous system. Involved in autophagy in controlling protein turnover during neuronal development, and in regulating normal cell survival and proliferation (By similarity).[UniProtKB/Swiss-Prot Function]