

Product datasheet for **RG240070**

AMBRA1 (NM_001300731) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AMBRA1 (NM_001300731) 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:	>RG240070 representing NM_001300731. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGGTTGTCCAGAAAAGAATGCTGTCCGGATACTCTGGGGCGGAGAACGGGGTCTCGGGCCATG
GGAGCTCAGCGGCTTCTGCAGGAGCTGGTAGAAGATAAAACCGGTGGATGAAATGGGAGGGCAAGAGA
GTAGAAGTCCGGATAGTCCACGCTCTACCTTCTATTGGCTTCAGCCAGACAGGACTCTTTAGCC
TCCACCCATGTGAACCATAATATCTATATTACGGAGGTGAAGACTGGCAAGTGTGTTTCATCCCTGATT
GGACACCGCCGACTCCATGGTGTGTCACCTTTTCATCCACCATCTCAGGCCTTATTGCTCTGGCTGC
CTAGATGGGAGGTTAGGATTTGGGATTACACGGTGGCAGTGAAGCTGGTTCACAGATAGCAACAAT
GCCATTGCCTCCCTGGCTTCCACCCTACGGCTCAGCTCCTGCTGATTGCCACTGCCAATGAGATCCAC
TTCTGGGACTGGAGTCGACGGGAACCCCTTGTGTGGTGAAGACAGCTAGTGAGATGGAACGGGTCGGT
CTGGTGAGATTTGATCCACTTGGACACTACTTACTCACAGCAATTGTTAACCCCTCTAATCAACAGGGT
GATGACGAACCAGAGATCCCATAGATGGAACAGAATTATCCCACTACCGTCAGCGTGCCCTCCTGCAA
TCACAGCCAGTTCGCCGGACGCTCTCCTCCACAATTTCTGCACATGCTGTCTCCCGCTCTTCTGGC
ATCCAGGTGGGAGAGCAAAGCACAGTGAAGATTCTGCTACCCCTCACCCACCGCTCCCCCTCAG
CCCTCCACGGAGCGCCAGGACTTCCGCTTACATCAGGCTCCGACAGCGGGTCAGTTACCCACAGCT
GAGTGTGCCAGCACCTGGGATCCTGTGCCTTTCAGCCGCTGCTCTGGCACTCGAGTTCCTTCCCTC
TTGCCACACCAGGACAGTGTCCCCCTGCTTCTGCCAGAGCTACTACCCCTTCTTTTCTTTGTACAG
ACCGAGCCCTTCCATCCCCCGGAGCAGGCTCGTCAACGCAGCAGGACCAGGGCTCCTGAACCGGCCG
TCTGCCTTCACTACAGTCCAGAGCAGCACTGCCGCAACACGCTCCGCAACCTCAGTCTGGGTCCTACC
CGCCGCTCTTTGGGAGGGCTCTGTCTAGCCACCTTCTAGGTATCACCGAGAAATAGCTCCTGGGTTG
ACAGGATCTGAGTGGACCCGGACAGTACTCAGTCTGAACTCCCGCTCTGAGGGGAATCCATGCCCCG
CCCAGAACCAGTGCCTCTCGGTGAGTTTGTGTCTGTGTGAGACAGCAGGAAGGTGGCTCTCAGGCA
TCTGTGTACTTCAAGCACAGAAGGGAGGGTTTTCCGGCATCAGGGTGGCAACTGAGTCAGATGGA
GGGAATGGCTCCAGCCAAAACAACCTCGGCAGCATTGCCATGAGCTTCACTGTGACCTGAGACGCTTC
```



[View online »](#)

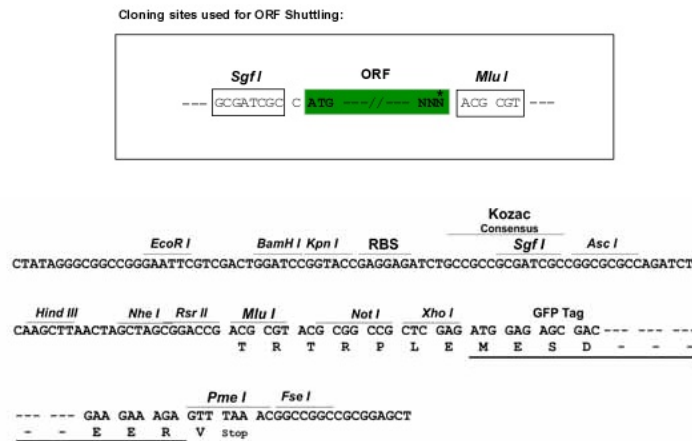
TTTCTGGAGTATGACCGCTTCAGGAGCTGGATCAGAGCCTGAGTGGGAAGCTCCCCAGACCCAACAG
GCCAGGAAATGCTCAACAATAACATTGAATCTGAGAGGCCAGGCCCTTCCCACCAGCCCACCCACAC
AGCAGTGAGAACAACCTCAACCTGTCCCGTGGCCACCTGAATCGCTGTGCTGCTTCCACAATCTCCTG
ACCTTCAACAACGATACCTGCGCTGGGAAAGAACCACACCTAACTACTCTCTGGCGAGGCTAGTTCC
TCTTGGCAGGTCCCAGCTCCTTTGAGAGTGTGCCATCAAGTGGCAGCCAGTTGCCACCTCTCGAGCGG
ACTGAGGGCCAAACGCCAGCTCCAGCAGGCTGGAGTTGAGCAGCTCTGCTAGTCCGAGGAGGAGAGG
ACTGTGGGGTGGCCTTTAACAGGAGACAGGCCACTGGGAAAGAATTTACACCCAGTCCAGCAGATCT
GGAAGTGTGTACAGGAGGCCTTACATCAGGATATGCCTGAGGAGAGCTCTGAGGAGGATTCACCTCAGG
AGGAGGCTGCTGGAATCTTCCCTCATTTCATTTCCCGTTATGATGGAGCAGGATCCAGAGAGCACCCA
ATTTACCCAGACCCAGCGAGGGACAATGGTGACAGATCCAGGCACCGAGCTCCACGCAATGCCCGGATG
TCTGCACCTTCGCTTGGACGCTTTGTCCAAGGCGTTTCTTGTGCCTGAGTACTTGCCTTATGCTGGG
ATTTTTATGAACGTGGACAGCTGGCTGGCTACTACTCTTCTGTTAACAGGGTCTGGCAGGGGCA
GTGATCGGTGATGGACAGTCTGCTGTGGCCAGTAACATTGCCAATACTACCTACCGGCTCCAGTGGTGG
GACTTACTAAGTTTGACCTCCCTGAAATCAGTAATGCTTCCGTGAATGTGCTGGTGCAACTGCAAG
ATCTACAATGATGCCAGCTGTGACATTTCTGCAGATGGCCAGCTCCTGGCAGCTTTCATCCCCAGCAGC
CAGAGGGGCTTTCTGATGAAGGCATCCTGGCAGTGTACTCCCTGGCCCCCATAACTGGGCGAAATG
CTCTACACCAAGCGATTTGGTCCCAATGCCATTTCCGTGAGCCTGTCCCCAATGGGCAGATATGTAATG
GTGGGCTTGGCCTCACGAAGGATCCTGCTGCACCCCTCCACAGAGCACATGGTGGCCAGGTCTTCAGG
CTGCAACAGGCCCATGGTGGAGAGACCTCCATGAGGAGAGTTTTCAACGTCTTTATCCCATGCCTGCC
GACCAGCGGAGACATGTCAGTATCAACTCTGCCGTTGGCTGCCTGAGCCAGGGCTTGGCTTGGCCTAT
GGTACTAACAAAGGAGACCTGGTGTCTGCCGACCAGAGGCCTTAAACTCTGGTGTGAGTACTACTGG
GACCAGCTGAACGAGACGGTCTTCACTGTCCATTCCAACAGCAGGAGCAGCGAGCGGCCTGGAACCAGC
AGAGCCCATGGAGGACAGACAGAGACATGGGGCTGATGAATGCCATTGGGCTTACGCCCGGAACCTG
GCCACCTCAGTGACATCTCAGGGCACCCAGACTCTGGCCCTTCACTGCAGAAATGCCGAACACAGACT
GAGAGGGAGGTGCCGGAGCCAGGACAGCCGCTCAGGTCTGGTGAAGGTGAGGGTTGAGAGTATGGT
GCCAGTGGAGAAGATGCGCTCAGCAGGATCCAGAGGCTGATGGCGGAGGGCGGCATGACAGCCGTGGTG
CAGCGGGAGCAGAGCACCACCATGGCCTCCATGGGCGGCTTCGGCAACAACATCATCGTCAGCCACCGC
ATTCACCGCAGCTCTCAGACGGGCACTGAACTGGTGCCGCCACACCTCCTCACCCAGCCCTCCACC
TCTCGGGACTGCTCCCAGAGGCCGGGCAACTGGCAGAGCGAGGCCTAAGCCCCGGACAGCTTCTCTGG
GACCAGCCTGGTACCCCTGGGCGGGAGCCAACCCAGCCAACCTGCCCTTCTCTCCCTGTCCCCATT
CCTGTTTCCCTTCCCAGCGCTGAGGGACCAACCCCTCACTGCGAGTTGACCAATAACAACCACCTTCTG
GATGGTGGCAGCAGCAGGGGGGACGCTGCAGGCCCTAGGGGAGAACCACGGAACAGG
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAAAC

Protein Sequence: >Peptide sequence encoded by RG240070
 Blue=ORF Red=Cloning site Green=Tag(s)

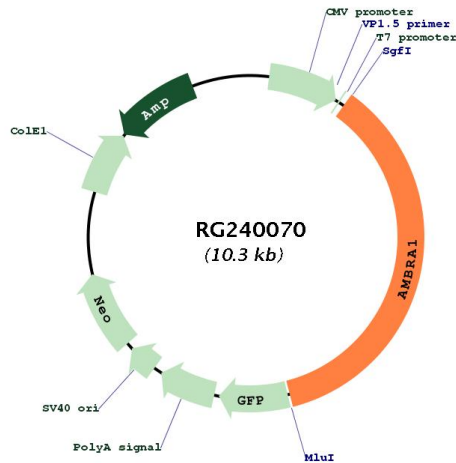
MKVVPEKNAVRIILWGRERGARAMGAQRLLQELVEDKTRWMKWEKRVLPDSRSTFLLAFSPDRLLA
 STHVNHNIYITEVKTGKCVHSLIGHRRTPWCVTFHPTISGLIASGCLDGEVRIWDLHGGSESWFTDSNN
 AIASLAFHPTAQLLLIATANEIHFWDWSRREPFVAVKTAEMERVLRVRFDPDLGHYLLTAIVNPNQOQ
 DDEPEIPIDGTELSHYRQRALLQSQPVRRTPLLNHFLHMLSSRSSGIQVGEQSTVQDSATPSPPPPPQ
 PSTERPRTSAYIRLRQVSYPTAECQHLGILCLCSRCSGTRVPSLLPHQDSVPPASARATTPSFVFVQ
 TEPFHPPEQASSTQQDQGLLNRPSAFSTVQSSTAGNTRLNLSLGPTRRSLGGPLSSHPSRYHREIAPGL
 TGSEWTRTVLNLNSRSEAESMPPPRTSASSVSLLSVLRQQEQQSASVYTSATEGRGFPASGLATESDG
 GNGSSQNNSGSIKHELQCDLRRFFLEYDRLQELDQSLSGEAPQTQQAQEMLNNNIESERPGSPHQPTPH
 SSENNSNLNRGHLNRCRACHNLLTFNNDTLRWERTTPNYSSGEASSWQVPSFESVPSGSQLPLER
 TEGQTPSSRLELSSASPEERTVGVAFNQETGHWERIYQSSRSGTVSQEALHQDMPEESSEEDSLR
 RRLLESSLISLSRYDGAGSREHPIYPDPARDNGDRSRHRAPRNARMSAPSLGRFVPRRFLPEYLPYAG
 IHERGQPGPLATHSSVNRVLAGAVIGDQSAVASNIANTTYRLQWDFTKFDLPEISNASVNVLVQCK
 IYNDASCDISADQQLAAFIPSSQRGFPEGILAVYSLAPHNLGEMLYTKRFGPNAISVSLSPMGRYVM
 VGLASRRILLHPSTEHMAQVFRLLQQAAGGETSMRRVFNVLPMADQRRHVSINSARWLPEPGLGLAY
 GTNKGDLVICRPEALNSGVEYYWDLNETVFTVHSNSRSSERPGTSRATWRTDRDMGLMNAIGLQPRNP
 ATSVTSQGTQLALQLQNAETQTEREVPEPGTAASGPGESEYVYASGEGEDALSRQRLMAEGGMTAVV
 QREQSTTMSMGFGNNIIVSHRIHRSSQTGTEPGAHTSSPQPSTSRGLLPEAGQLAERGLSPRTASW
 DQPGTPGREPTQPTLPSSSPVPIVSLPSAEGPTLHCEL TNNHLLDGGSSRGDAAGPRGEPRNR
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSGYENPFLHA INNGGYTNTRIEKYEDGGVLHVFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKA IHP SILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001300731

ORF Size: 3714 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).

RefSeq: [NM_001300731.2](#)

RefSeq Size: 5126 bp

RefSeq ORF: 3717 bp

Locus ID: 55626

UniProt ID: [Q9C0C7](#)

Cytogenetics: 11p11.2

MW: 136 kDa

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]