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Product datasheet for RG216801

UBE1C (UBA3) (NM_198195) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UBE1C (UBA3) (NM_198195) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UBE1C
Synonyms:	hUBA3; NAE2; UBE1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

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ORF Nucleotide Sequence:

>RG216801 representing NM_198195
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGATGGCGAGGAGCCAATGGCTGTTGATGGTGGGTGTGGGGACACTGGAGACTGGGAAGGTCGCT
GGAACCATGTAAAGAAGTTCCTCGAGCGATCTGGACCCTTCACACACCCTGATTTCGAACCGAGCACTGA
ATCTCTCCAGTTCTTGTTAGATACATGTAAAGTTCTAGTCATTGGAGCTGGCGGCTTAGGATGTGAGCTC
CTGAAAAATCTGGCCTTGTCTGGTTTTAGACAGATTCATGTTATAGATATGGACACTATAGATGTTTCCA
ATCTAAATAGGCAGTTTTTATTTAGGCCTAAAGATATTGGAAGACCTAAGGCTGAAGTTGCTGCAGAATT
TCTAAATGACAGAGTTCCTAATTGCAATGTAGTTCCACATTTCAACAAGATTCAAGATTTTAACGACACT
TTCTATCGACAATTTCATATTATTGTATGTGGACTGGACTCTATCATCGCCAGAAGATGGATAAATGGCA
TGCTGATATCTCTTCTAAATTATGAAGATGGTGTCTTAGATCCAAGCTCCATTGTCCCTTTGATAGATGG
GGGGACAGAAGGTTTTAAAGGAAATGCCCGGGTGATTCTGCCTGGAATGACTGCTTGTATCGAATGCACG
CTGGAACTTTATCCACCACAGGTTAATTTTCCCATGTGCACCATTGCATCTATGCCCAGGCTACCAGAAC
ACTGTATTGAGTATGTAAGGATGTTGCAGTGGCCTAAGGAGCAGCCTTTTGGAGAAGGGGTTCCATTAGA
TGGAGATGATCCTGAACATATACAATGGATTTTCCAAAAATCCCTAGAGAGAGCATCACAATATAATATT
AGGGGTGTTACGTATAGGCTCACTCAAGGGGTAGTAAAAAGAATCATTCCTGCAGTAGCTTCCACAAATG
CAGTCATTGCAGCTGTGTGTGCCACTGAGGTTTTTAAAATAGCCACAAGTGCATACATTCCCTTGAATAA
TTACTTGGTGTTTAATGATGTAGATGGGCTGTATACATACACATTTGAAGCAGAAAGAAAGGAAAACTGC
CCAGCTTGTAGCCAGCTTCCTCAAAATATTCAGTTTTCTCCATCAGCTAAACTACAGGAGGTTTTGGATT
ATCTAACCAATAGTGCTTCTCTGCAAATGAAATCTCCAGCCATCACAGCCACCCTAGAGGGAAAAAATAG
AACACTTTACTTACAGTCGGTAACCTCTATTGAAGAACGAACAAGGCCAAATCTCTCCAAAACATTGAAA
GAATTGGGGCTTGTTGATGGACAAGAACTGGCGGTTGCTGATGTCACCACCCCACAGACTGTACTATTCA
AACTTCATTTTACTTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

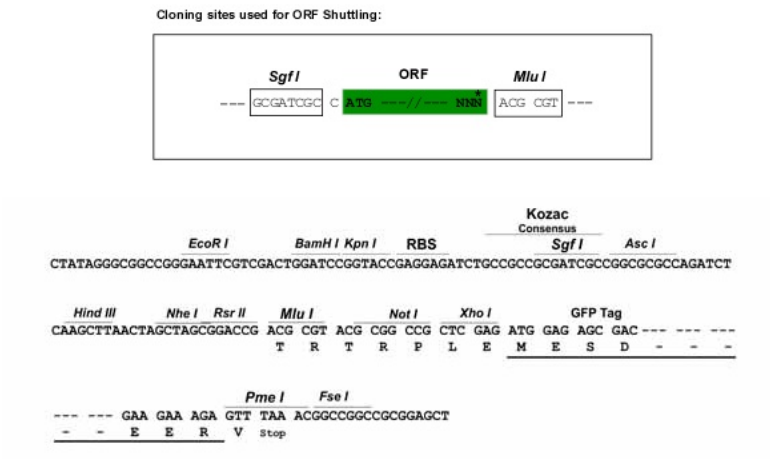
>RG216801 representing NM_198195
Red=Cloning site Green=Tags(s)

MADGEEPMAVDGGCGDTGDWEGRWNHVKKFLERSGPFTHPDFEPSTESLQFLLDTCKVLVIGAGGLGCEL
LKNLALSGFRQIHVIDMDTIDVSNLNRQFLFRPKDIGRPKAEVAAEFLNDRVPNCNVVPHFNKIQDFNDT
FYRQFHIIVCGLDSIIARRWINGMLISLLNYEDGVLDPSSIVPLIDGGTEGFKGNARVILPGMTACIECT
LELYPPQVNFPMCTIASMPRLPEHCIEYVRMLQWPKEQPFGEGVPLDGDDPEHIQWIFQKSLERASQYNI
RGVTYRLTQGVVKRIIPAVASTNAVIAAVCATEVFKIATSAYIPLNNYLVFNDVDGLYTYTFEAERKENC
PACSQLPQNIQFSPSAKLQEVLDYLTNSASLQMKSPAITATLEGKNRTLYLQSVTSIEERTRPNLSKTLK
ELGLVDGQELAVADVTTPQTVLFKLHFTS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

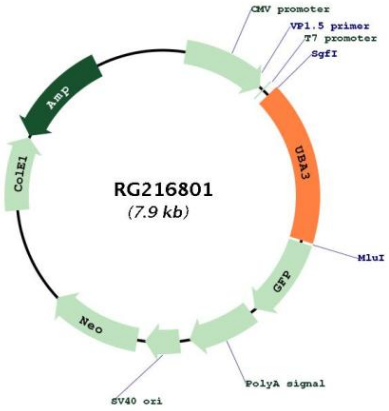


ACCN:	NM_198195
ORF Size:	1347 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_198195.2
RefSeq Size:	2094 bp
RefSeq ORF:	1350 bp
Locus ID:	9039
UniProt ID:	Q8TBC4
Cytogenetics:	3p14.1

Protein Pathways: Ubiquitin mediated proteolysis

Gene Summary: The modification of proteins with ubiquitin is an important cellular mechanism for targeting abnormal or short-lived proteins for degradation. Ubiquitination involves at least three classes of enzymes: ubiquitin-activating enzymes, or E1s, ubiquitin-conjugating enzymes, or E2s, and ubiquitin-protein ligases, or E3s. This gene encodes a member of the E1 ubiquitin-activating enzyme family. The encoded enzyme associates with AppBp1, an amyloid beta precursor protein binding protein, to form a heterodimer, and then the enzyme complex activates NEDD8, a ubiquitin-like protein, which regulates cell division, signaling and embryogenesis. Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216801