

Product datasheet for **RG214483**

UBA6 (NM_018227) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | UBA6 (NM_018227) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | UBA6 |
| Synonyms: | E1-L2; MOP-4; UBE1L2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG214483 representing NM_018227 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGGATCCGAGCCTGTGGCCGCCATCAGGGGAAGAGGCGTCCTGTTCTTCTGGGGGACTGGCA
GCACAAATAAAAAATTTGCCATTATGTCAACAGCATCTGTGAAATCGATGATGCATTGTATAGTCGACA
GAGGTACGTTCTTGGAGACACAGCAATGCAGAAGATGGCCAAGTCCCATGTTTTCTTAAGTGGGATGGGT
GGTCTTGGTTTGGAAATGCAAAGAATCTTGTCTTGCAGGGATTAAGGCAGTTACAATTCATGATACAG
AAAAATGCCAAGCATGGGATCTAGGAACCAACTCTTTCTCAGTGAAGATGATGTTGTTAATAAGAGAAA
CAGGGCTGAAGCTGTACTTAAACATATTGCAGAACTAAATCCATACGTTTCATGTCACATCATCTTCTGTT
CCTTTCAATGAGACCACAGATCTCTCCTTTTTAGATAAATACCAGTGTGTAGTATTGACTGAGATGAAAC
TTCCATTGCAGAAGAAGATCAATGACTTTTGGCCTTCTCAGTGCCTCCAATTAAGTTTATCAGTGCAGA
TGTACATGGAAATTTGGTCAAGGTTATTTGTGATTTCCGGTGTGAATTTGAAGTTTATAGATAACAAGGA
GAAGAACCAAAAGAAATTTTCATTTCAAACATAACGCAAGCAAATCCTGGCATTGTTACTTGCCTTGAAA
ATCATCTCACAACTGGAGACAGGACAATTCCTAACATTTGAGAAATTAATGGAATGACAGGTTTAA
TGGATCTATAACAATAACCGGTGATATCGCCATTTCTTTTAGTATTGGTGACACCACAGAAGTGGAA
CCATATTTACATGGAGGCATAGCTGTCCAAGTTAAGACTCCTAAAACAGTTTTTTTTGAATCACTGGAA
GGCAGTTAAAACATCCAAGTGCCTTATTGTGGATTTTAGCAACCTGAGGCACCTTTAGAGATTCACAC
AGCTATGCTTGCCTTGGACCAGTTTCAGGAGAAATACAGTCGCAAGCCAAATGTTGGATGCCAACAAAGAT
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GGAATGATTACAGTTACAGATCCTGACTTGATAGAGAAATCCAACCTAAATAGACAGTTCCTATTTTCGTC
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 ATTGAGCCAACAATGGTGGTACAGGGAGTCAAAATGCTTTATGTTCTGTAAATGCCTGGTCATGCAAAAA
 GATTGAAGTTAAACAATGCATAAACTTGTAAAACCTACTACTGAAAAGAAAATGTGGATCTTACTGTGTC
 ATTTGCTCCAGACATTGATGGAGATGAAGATTTGCCGGGACCTCCAGTAAGATACTACTTCACTGATGAC
 ACTGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214483 representing NM_018227

Red=Cloning site Green=Tags(s)

MEGSEPVAAHQGEESASSWGTSSTNKNLPI MSTASVEIDDALYSRQRYVLGDTAMQKMAKSHVFLSGMG
 GLGLEIAKNLVLAGIKAVTIHDTEKQAWDLGTFNFFLSEDDVVNKRNRRAEAVLKHIAELNPYVHVTSSSV
 PFNETTDL SFLDKYQCVVLTEMKLP LQKKINDFCRSQCPPIKFI SADVHGIWSRLFCDFGDEFVLDTTG
 EEPKEIFISNITQANPGIVTCLNHPHKLETGQFLTFREINGMTGLNGSIQQITVISPFSFSIGDTTELE
 PYLHGGIAVQVKTPKTVFFESLERQLKHPKCLIVDFSNPEAPLEIHTAMLALDQFQEKYSRKNVGCQQD
 SEELLKLATSISETLEEKPDVNADIVHWL SWTAQGFLSPLAAAVGGVASQEV LKAVTGKFSPLCQWLYLE
 AADIVESL GKPECEEF LPRGDRYDALRACIGDTLCQKLQNLNIFLVGCGAIGCEMLKNFALLGVGTSKEK
 GMTIVTDPDLIEKSNLNRQFLFRPHHIQPKSYTAADATL KINSQIKIDAHLNKVCPPTTETIYNDEFYTK
 QDVIITALDNVEARRYVDSRCLANLRPLLD SGTMGTKGHTEVIVPHL TESYNSHRDPPEEEIPFCTLKSF
 PAAIEHTIQWARDKFESSFSHKPSL FNKFWQTYSSAEV LQKIQSGHSLEGCFQVIKLLSRRPRNWSQCV
 ELARLKF EKYFNH KALQLLHCFPLDIRLKDGS LFWQSPKRPPSP IKFDLNEPLHL SFLQNAAKLYATVYC
 IPFAEEDLSADALLNILSEVKIQEFKPSNKVVQTD ETARKPDHVPISSEDERNAIFQLEKAILSNEATKS
 DLQMAVLSFEKDDDHNGHIDFITAASNLRAKMYSIEPADRFKTKRIAGKIIPAIATTTATVSGLVALEMI
 KVTGGYPFEAYKNCFLNLAIPVVFTE TTEVRKTKIRNGISFTIWRWTVHGKEDFTLLDFINAVKEKYG
 IEPTMVVQGVKMLYVPVMPGHAKRLKLTMHKLVKPTTEKKYVDLTVSFA PDIDGDEDLP GPPVRYFVSHD
 TD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_018227

ORF Size: 3156 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_018227.6](#)

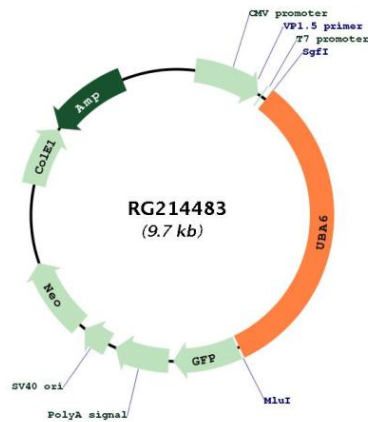
RefSeq Size: 6462 bp

RefSeq ORF: 3159 bp

Locus ID: 55236

UniProt ID: [A0AVT1](#)
Cytogenetics: 4q13.2
Domains: UBACT, ThiF
Protein Pathways: Ubiquitin mediated proteolysis
Gene Summary: Modification of proteins with ubiquitin (UBB; MIM 191339) or ubiquitin-like proteins controls many signaling networks and requires a ubiquitin-activating enzyme (E1), a ubiquitin conjugating enzyme (E2), and a ubiquitin protein ligase (E3). UBE1L2 is an E1 enzyme that initiates the activation and conjugation of ubiquitin-like proteins (Jin et al., 2007 [PubMed 17597759]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG214483