

## Product datasheet for **RG217407**

### UBE4A (NM\_004788) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	UBE4A (NM_004788) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	UBE4A
Synonyms:	E4; UBOX2; UFD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG217407 representing NM_004788 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGACCAGGAGAATAACAACAACATCTCAAGTAACCCCTTTGCTGCTCTTTTTGGCTCCCTGGCTG  
ATGCCAAACAGTTTTCGGCAATCCAAAAAGAGCAGCTGAAGCAACAATCTGATGAACTCCAGCTAGCCC  
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TCATTCCGATCACAGCAGGAAATATGTGAGCAACTCAACATCAATCACATGATCCAAAGGATCTTCCTTA  
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AGAAATGGCAGTAGAGCTAGAAGATCAAGACTGGCTTGATATGAGCAATGTTGAGCAGGCCCTCTTCGCT  
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CTGATCGAGATGCAGGAGAGAGGCACATTTTTTGTACCTTTACTCCTGCTTCCAGAGAGCCAAGGAAGA  
GATTACCAAAGTTCAGAGAACCTGCTACCCTTTGAGTGCAGTGCAGAAACCTCACTGTGTCCAATACC  
CGAACAGTTCTTCTACCCAGAGATCTATGTTGACCAAAACATCCATGAGCAACTGGTAGATTTGATGT  
TAGAAGCCATCCAGGGAGCCCGTGAGTACATGAACAAGATCTATTTGAAGATGTAAGTGTCTGGA  
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GGTTTGGACAAAGAAACCTGTTTGATCCCAGCTGTGCAGGAGCCGAAGTTTCCACAGAACTACAACCTTG
TAACAGAGAACCTTGCTCTGACAGAGTACACCTTGACTTGGGATTTACAGGTTGCATGATCAGATGGT
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CTTGACACCTCCAACAACAGGAAGAGGAAACCTATGCAGATGCCTGTGATGAGTTCCTGGATCCCATTA
TGAGCACACTGATGTGTACCCTGTGGTCTGCCATCTCCAGAGTCACTGTGGATAGATCCACCATTGC
AAGACATTTGCTCAGTGACCAAAACAGATCCCTTTAACCGTAGTCCCTCACCATGGACCAGATCCGGCCA
AACACAGAATAAAAGAAAAAATCCAACGGTGGCTTGCAGAGAGGAAACAACAAAAGGAGCAACTTGAA

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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG217407 representing NM\_004788

Red=Cloning site Green=Tags(s)

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MTDQENNNNISSNPFALFGSLADAKQFAAIQKEQLKQQSDELPAASPDDSDNSVSESLDEFDYSVAEISR
SFRSQQEICEQLNINHMIQRIFLITLDNSDPSLKSNGIPSRVYLEEMAVELEDQDWLDMNSNVEQALFA
RLLLQDPGNHLINMTSSTLNLSDRDAGERHIFCYLYSCFQRAKEEITKVPENLLPFAVQCRNLTVSNT
RTVLLTPEIYVDQNIHEQLVDLMLLEAIQGAREYMNKIYFEDVTEFLEEVIIEALILDEEVRTFPEVMIPVF
DILLGRIKDLELCQILLYAYLDILLYFTRQKDMAKVFVEYIQPKDPTNGQMYQKTL LGVILSISCLLKTP
GVVENHG YFLNPSRSPQEIKVQEANIHQFMAQFHEKIYQMLKNLLQLSPETKHCILSWLGNCLHANAGR
TKIWANQMPEIFFQMYASDAFFLNLGAALLKLCQPFCKPRSSRLLTFNPTYCALKELNDEERKIKNVHMR
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VPEFFADNLGDFLIFLRRFADDILETSADSLEHVLHFITIFTGSIERMKNPHLRKLAEVLEAVMPHLDQ
TPNPLVSSVFHRKRVFCNFQYAPQLAEALIKVFDIEFTGDPHQFEQKFNYRRPMPYILRYMWTDTYRE
SIKDLADYASKNLEAMNPFLRFLNLLMND AIFLLDEAIQYLSKIKIQQIEKDRGEWDSLTPPEARREKE
AGLQMFQQLARFHNIMSNETIGTLAFLTSEIKSLFVHPFLAERIISMLNYFLQHLVGPKM GALKVKDFSE
FDFKPPQLVSDICTIYLNLDGDEENFCATVPKDGRSYPSTLFAQTVRVLKINKPGNMIMAFSNLAERIKS
LADLQQQEEETYADACDEF LDPIMSTLMCDPVVLPSSRVTVDRSTIARHLLSDQTPDFNRSPLTMDQIRP
NTELKEKIQRWLAERKQQKEQLE

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TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_004788.4</u>
<b>RefSeq Size:</b>	6138 bp
<b>RefSeq ORF:</b>	3222 bp
<b>Locus ID:</b>	9354
<b>UniProt ID:</b>	<u>Q14139</u>
<b>Cytogenetics:</b>	11q23.3
<b>Domains:</b>	U-box
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	This gene encodes a member of the U-box ubiquitin ligase family. The encoded protein is involved in multiubiquitin chain assembly and plays a critical role in chromosome condensation and separation through the polyubiquitination of securin. Autoantibodies against the encoded protein may be markers for scleroderma and Crohn's disease. A pseudogene of this gene is located on the long arm of chromosome 3. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Feb 2011]