

## Product datasheet for **RG215159**

### UBE2G2 (NM\_182688) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** UBE2G2 (NM\_182688) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** UBE2G2  
**Synonyms:** UBC7  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG215159 representing NM\_182688  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATGAAGAGAACTTTTTGAATGGGAGGCATTGATCATGGGCCAGAAGACACCTGCTTTGAGTTTG  
GTGTTTTCTGCCATCCTGAGTTTCCCACTTGATTACCCGTTAAGTCCCCAAAGATGAGATTTACCTG  
TGAGATGTTTCATCCCAACATCTACCCTGATGGGAGAGTCTGCATTTCCATCCTCCACGCCAGGCGAT  
GACCCCATGGGCTACGAGAGCAGCGCGGAGCGGTGGAGTCTGTGCAGAGTGTGGAGAAGATCCTGCTGT  
CGGTGGTGAAGCATGCTGGCAGAGCCCAATGACGAAAGTGGAGCTAACGTGGATGCGTCCAAAATGTGGCG  
CGATGACCGGGAGCAGTTCTATAAGATTGCCAAGCAGATCGTCCAGAAGTCTCTGGGACTG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG215159 representing NM\_182688  
Red=Cloning site Green=Tags(s)  
MNEENFFWEALIMGPEDTCFEFGVFPAILSFPLDYPLSPPKMRFTCEMFHPNIYPDGRVCISILHAPGD  
DPMGYESSAERWSPVQSVEKILLSVVSMLAEPNDESGANVDASKMWRDDREQFYKIAKQIVQKSLGL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

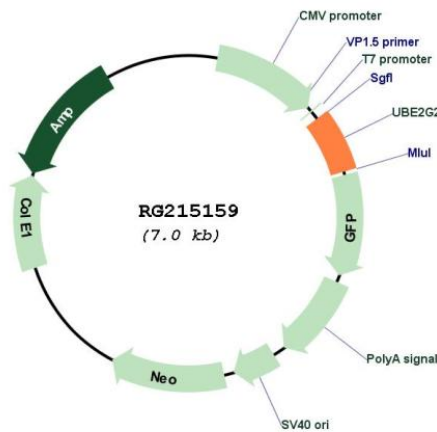


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_182688

ORF Size: 411 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_182688.3</a>
<b>RefSeq Size:</b>	3034 bp
<b>RefSeq ORF:</b>	414 bp
<b>Locus ID:</b>	7327
<b>UniProt ID:</b>	<a href="#">P60604</a>
<b>Cytogenetics:</b>	21q22.3
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Parkinson's disease, Ubiquitin mediated proteolysis
<b>Gene Summary:</b>	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 E2 ubiquitin-conjugating enzyme family. The encoded protein shares 100% sequence identity with the mouse counterpart. This gene is ubiquitously expressed, with high expression seen in adult muscle. Three alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Jan 2011]