

## Product datasheet for **RG215749**

### USP6 (NM\_004505) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	USP6 (NM_004505) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	USP6
Synonyms:	HRP1; Tre-2; TRE2; TRE17; TRESMCR; USP6-short
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215749 representing NM_004505 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

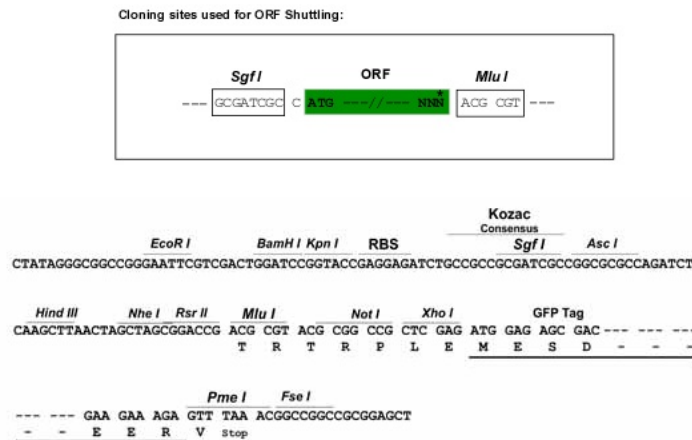
Protein Sequence: >RG215749 representing NM\_004505  
 Red=Cloning site Green=Tags(s)

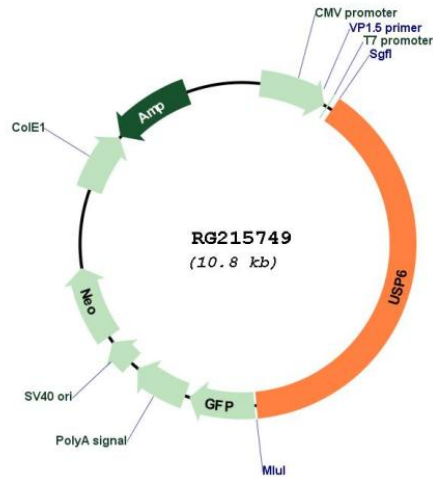
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 SSPNSSPRTLGRSKGRLRLPQIGSKNKPSSSKNL DASKENGAGQICELADALSRGHMRGGSQPELVTPQ  
 DHEVALANGFLYEHEACNGCGDGY SNGQLGNHSEEDSTDDQREDTHIKPIYNLYAISCHSGILSGGHIY  
 TYAKNPCKWYCYNDSSCEELHPDEIDTDSAYILFYEQQGIDYAQFLPKIDGKKMADTSS TDEDESSESYE  
 KYSMLQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_004505

**ORF Size:** 4218 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).

<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_004505.4</a>
<b>RefSeq Size:</b>	7971 bp
<b>RefSeq ORF:</b>	4221 bp
<b>Locus ID:</b>	9098
<b>UniProt ID:</b>	<a href="#">P35125</a>
<b>Cytogenetics:</b>	17p13.2
<b>Protein Families:</b>	Druggable Genome, Protease
<b>Gene Summary:</b>	Deubiquitinase with an ATP-independent isopeptidase activity, cleaving at the C-terminus of the ubiquitin moiety. Catalyzes its own deubiquitination. In vitro, isoform 2, but not isoform 3, shows deubiquitinating activity. Promotes plasma membrane localization of ARF6 and selectively regulates ARF6-dependent endocytic protein trafficking. Is able to initiate tumorigenesis by inducing the production of matrix metalloproteinases following NF-kappa-B activation.[UniProtKB/Swiss-Prot Function]