

## Product datasheet for **RG228649**

### Raptor (RPTOR) (NM\_001163034) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Raptor (RPTOR) (NM_001163034) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RPTOR
Synonyms:	KOG1; Mip1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228649 representing NM_001163034 Red=Cloning site Blue=ORF Green=Tags(s)

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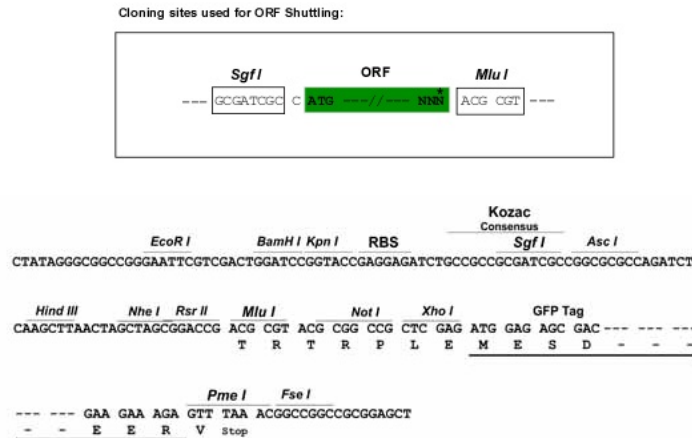
Protein Sequence: >RG228649 representing NM\_001163034  
 Red=Cloning site Green=Tags(s)

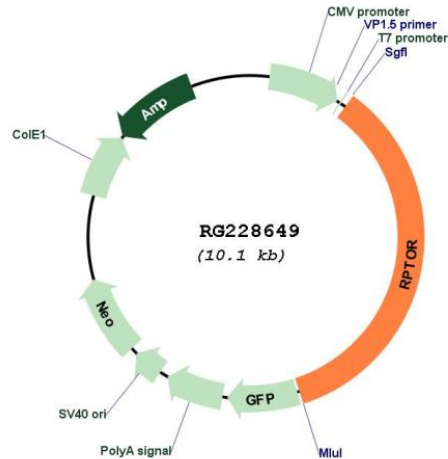
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```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



**Plasmid Map:**


**ACCN:** NM\_001163034

**ORF Size:** 3531 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\\_001163034.2](#)

**RefSeq Size:** 6382 bp

**RefSeq ORF:** 3534 bp

**Locus ID:** 57521

**UniProt ID:** [Q8N122](#)

**Cytogenetics:** 17q25.3

**Protein Pathways:** Insulin signaling pathway, mTOR signaling pathway

**Gene Summary:** This gene encodes a component of a signaling pathway that regulates cell growth in response to nutrient and insulin levels. The encoded protein forms a stoichiometric complex with the mTOR kinase, and also associates with eukaryotic initiation factor 4E-binding protein-1 and ribosomal protein S6 kinase. The protein positively regulates the downstream effector ribosomal protein S6 kinase, and negatively regulates the mTOR kinase. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]