

## Product datasheet for **SC327284**

### Raptor (RPTOR) (NM\_001163034) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Raptor (RPTOR) (NM_001163034) Human Untagged Clone
Tag:	Tag Free
Symbol:	RPTOR
Synonyms:	KOG1; Mip1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001163034, the custom clone sequence may differ by one or more nucleotides

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ATGGAGTCCGAAATGCTGCAATCGCCTCTTCTGGCCTGGGGGAGGAAGATGAGGCTGAT
CTTACAGACTGGAACCTACCTTTGGCTTTTATGAAAAAGAGGCACTGTGAGAAAATTGAA
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CAGAGCCTTGACCAACTGTGGATGAAGTCAAGAAGCTCTGCACGTCCTTACGTCGCAAC
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GCCTGGGACCTGGCTGTTGACATCTGTCTCAGCTGCCGACGATCATCGAGGAAGGC
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CAGAGCTCGGCCGAGAGCTGCGGCCACTTCTCGTTTTTCTGCGCCAAGATCCTCGCA

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GTGGACAGCGAGCTGGTGGTGGCTCTGAGTCATCTTGTGGTTTCAGTATGAAAGCAATTC
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ACCACAGAGGGGAGGGAGTTTGACCCAGTGCAGAGACAGCCCGTGCACCCCGAGACTTCGT
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CAGCGGGTCCGGCCATCAGCTGCTGGCTTCCACCCGACTGGCTCACCTGGCCGTG
GGAAGCAACGACTACTACATCTCCGTGACTCGGTGGAGAAGCGTGCAGA

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- Restriction Sites:** Please inquire
- ACCN:** NM\_001163034
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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>	<u>NM_001163034.1, NP_001156506.1</u>
<b>RefSeq Size:</b>	6382 bp
<b>RefSeq ORF:</b>	3534 bp
<b>Locus ID:</b>	57521
<b>UniProt ID:</b>	<u>Q8N122</u>
<b>Cytogenetics:</b>	17q25.3
<b>Protein Pathways:</b>	Insulin signaling pathway, mTOR signaling pathway
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks alternate in-frame exons compared to variant 1. This results in a shorter protein (isoform 2) compared to isoform 1. The transcript is described in PMID:19388141. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>