

Product datasheet for **SC309134**

Raptor (RPTOR) (NM_020761) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Raptor (RPTOR) (NM_020761) Human Untagged Clone
Tag:	Tag Free
Symbol:	Raptor
Synonyms:	KOG1; Mip1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC309134 sequence for NM_020761 edited (data generated by NextGen Sequencing)

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ATGGAGTCCGAAATGCTGCAATCGCCTCTTCTGGCCTGGGGGAGGAAGATGAGGCTGAT
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GCCAAGGAGGAGCGAGTCTCTTCACTACAATGGCCACGGGGTCCCGGCCACAGTC
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Clone variation with respect to NM_020761.2
 1269 c=>t;2894 g=>n;2895 c=>n;2896 t=>n;2897 a=>n;2898 t=>n;2899 t=>n;2900 t=>n;2901
 t=>n;2902 g=>n;3609 c=>t

Restriction Sites: Please inquire
ACCN: NM_020761
Insert Size: 6700 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.

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_020761.1](#), [NP_065812.1](#)

RefSeq Size: 6431 bp

RefSeq ORF: 4008 bp

Locus ID: 57521

UniProt ID: [Q8N122](#)

Cytogenetics: 17q25.3

Domains: WD40

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).