

## Product datasheet for **SC316453**

### RICTOR (NM\_152756) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RICTOR (NM_152756) Human Untagged Clone
Tag:	Tag Free
Symbol:	RICTOR
Synonyms:	AVO3; hAVO3; PIA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_152756 edited  
CGTCAATATGGCGGCGATCGGCCGCGGCGCTCTCTGAAGAACCTCCGAGTACGAGGGCG  
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 GAGCTTTGTGGTTATCAGTATACTAAAAAAAAAAAAAAAAAAAAAAAAAA

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_152756 unedited            TTGTATACGACTCCTATAGGGCGGCCGGAATTCGCACGAGGCGTCAATATGGCGGCGAT            CGGCCGCGGCCGCTCTCTGAAGAACCTCCGAGTACGAGGGCGGAATGACAGCGCGGAGGA            GAACGTCCCCTGGATCTGACCCGAGAACCTTCTGATAACTTAAGAGAGATTCTCCAAA            TGTGGCCAGATTGCAGGGAGTATCAAATATGAGAAAGCTAGGCCATCTGAATAACTTTAC            TAAGCTTCTTTGTGATATTGGCCACAGTGAAGAAAACTGGGCTTCACTATGAGGATAT            CATAATTTGTTTGCAGTTAGCTTTATTAATGAAGCAAAGAAGTGCAGCAGCAGGGCT            ACGAGCGCTTCGATATCTCATCCAAGACTCCAGTATTCTCCAGAAGGTGCTAAAATTGAA            AGTGGACTATTTAATAGCTAGGTGCATTGACATACAACAGAGCAACGAGGTAGAGAGGAC            ACAAGCACTTCGATTAGTCAGAAAGATGATTACTGTGAATGCTTCCTTGTTCCTAGTTC            TGTGACCAACTATTAATTGCAGTTGAAATGATGGACTTCAAGAAAGAGACAGAATGGT            CCGAGCATGCATTGCCATTATCTGTGAAGTACTGCACTTCCAGATCCAGAGGTGGTGGCCCT            TCGAGGTGGACTAAACACCATCTTGAAAAATGTGATCGATTGCCAATTAAGTCAATAAA            TGAGGCCCTATTACTANCATTNTGCACCTTCTAATCATCAAAGACTCGACAGTATGT            GCGAGCTGATGTAGAATTAGAGAGAATTNTAGCACCTTACTGATTNTCACTACAGACA            TAGTCCAGATACAGCTGAAGGACAGCTCANAAAGACAG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_152756 unedited            TTTTTTTTTTTTTTTTGTAGTATACTGATAACCACAAAGCTCTGAGTATCTCCCAAAGTA            AGTGATATAGGCAGATATGATAAGGTATACATACATATTTTTCAAAGTAACAGTAAAAAA            AAAAAACAAAAAACCACAAACATTCAGGCCAATACTAACTAAGCCTTATTTTCAGG            ATAGATGACCAAGGTGAGGGTACAGGGATAGTGATGGTGGGGANNNNNNNNNNNNNNN            NNNNNNNNNNNNNNN</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_152756
<b>Insert Size:</b>	7400 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.NA
<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).

**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\\_152756.3](#), [NP\\_689969.2](#)

**RefSeq Size:** 9535 bp

**RefSeq ORF:** 5127 bp

**Locus ID:** 253260

**UniProt ID:** [Q6R327](#)

**Cytogenetics:** 5p13.1

**Protein Pathways:** mTOR signaling pathway

**Gene Summary:** RICTOR and MTOR (FRAP1; MIM 601231) are components of a protein complex that integrates nutrient- and growth factor-derived signals to regulate cell growth (Sarbassov et al., 2004 [PubMed 15268862]).[supplied by OMIM, Mar 2008]  
Transcript Variant: This variant (1) represents the predominant transcript and encodes isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.