

Product datasheet for **RC240129**

RICTOR (NM_001285440) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RICTOR (NM_001285440) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RICTOR
Synonyms:	AVO3; hAVO3; PIA
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC240129 representing NM_001285440 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

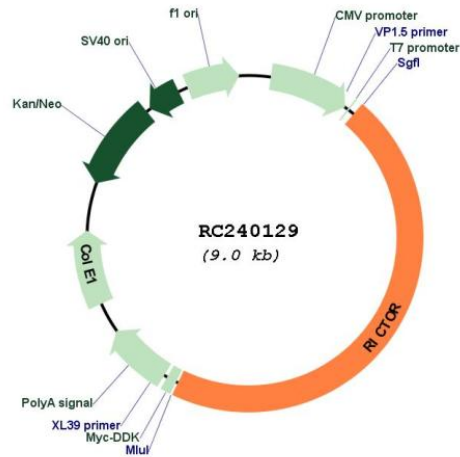
ATGGGAATCATAGCAACATTCCGATCATGGGCAGGTATTATTAATTTATGTAACCTGGAAATTCTGGGATCCAGTCTCTAATAGGAGTACTTTGCATACCAAATATGGAAATAAGGCGAGGTCTACTTGAAGTGCITTTA TGATATATTTTCGTCCTTCTACCTGTTGTGACTGAGGAGTTCATAGAAGCACTACTCAGTGTAGATCCA GGGAGGTTCCAAGACAGTTGGAGGCTTTTCAGATGGCTTTGTGGCAGCTGAGGCAAAAACCTATTCTTCCTC ATCGTGCCAGATCCAGGCCAGACCTCATGGATAATTTATTTGGCACTGATACTCTCTGCATTTATTCGTAA TGGACTTTTAGAGGGTCTAGTTGAAGTGATAACAAACAGTGATGATCATATCTCAGTTAGAGCTACCATC CTTTTAGGAGAGCTTTTACATATGGCAAACACAATTCTTCCTCATTACATAGCCATCATTTACTGCT TGCCAACCCTAATGAATATGGCTGCATCCTTTGATATCCCAAGGAAAAGAGACTGCGAGCCAGTGCAGC CTTGAAGTGTAAAACGCTTCCATGAAATGAAGAAACGAGGACCTAAGCCTTATAGTCTTCATTTAGAC CACATTATTCAGAAAGCAATTGCAACACACCAGAAACGGGATCAGTATCTCCGAGTTCAGAAAGATATAT TTATCCTTAAGGATACAGAGGAAGCTCTTTAATTAACCTTAGAGATAGCCAAGTCTTCAACATAAAGA GAATCTTGAATGGAATTGGAATCTTATAGGACCATTCTTAAGTGCCAAATGTAATCTAAGAAACTAT AAAGATGAACAGTTACACAGTTTGTACGAAGACTACTTTATTTTTACAAGCCAGCAGTAAATTATATG CCAACCTGGATCTGGATTTTGCCAAGGCCAAACAGCTCACGGTTGTAGGTTGCCAGTTTACAGAATTTCT TCTTGAATCTGAAGAGGATGGGCAAGGCTACTTAGAAGATCTAGTAAAGGATATTGTTTCAGTGGCTCAAT GCTTCATCTGGAATGAAACCCGAAAGAAGTCTTCAAATAATGGTTTATTGACCACCCTTAGTCAACACT ACTTTTTATTTATTGGAACACTTCTTGCCACCCTCATGGAGTTAAAATGCTGGAAAAATGCAGTGTATT TCAGTGTCTCCTAATCTTTGCTCCTTGAAAAACCAAGATCACTTGCTAAAACCTACTGTTTCTAGCTTG GACTATAGCAGAGATGGATTGGCTAGAGTCATCCTTTCCAAAATTTAACTGCAGCTACTGATGCCTGCA GACTCTATGCAACAAAACATTTAAGGGTATTATTGAGAGCTAATGTTGAATCTTTAATAATTGGGGAAAT TGAGTTGTTAGTGACCCAGCTACATGATAAAAACAAAACGATTTCTCTGAAGCTCTTGATATCCTCGAT GAAGCATGTGAAGACAAGGCCAATCTTCATGCTCTCATTAGATGAAACCAGCGTTATCCCACCTTGGAG



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ACAAGGGTTTGCTTCTCCTGCTGAGATTTCTCTCCATTCCAAAAGGATTTTCTATCTGAATGAAAGAGG
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ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:


ACCN: NM_001285440

ORF Size: 4155 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_001285440.1](#), [NP_001272369.1](#)

RefSeq Size: 9441 bp

RefSeq ORF: 4158 bp

Locus ID: 253260

UniProt ID: [Q6R327](#)

Cytogenetics:	5p13.1
Protein Pathways:	mTOR signaling pathway
MW:	156.3 kDa
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]