

Product datasheet for **RC212982**

RICTOR (NM_152756) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RICTOR (NM_152756) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RICTOR
Synonyms:	AVO3; hAVO3; PIA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC212982 representing NM_152756 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

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AGTCTTCATTTAGACCACATTATTCAGAAAACAATTGCAACACACCAGAAAACGGGATCAGTATCTCCGAG
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 CCATTTGCTGTACACTGCACATTCAGACTTCCGTGTCCGAGGTTTCATACAAGAATTTTCAAGATGTA
 CAGTTTCTACAAATGCATGAAGAAGCAGAGGCTGTGTTGGCAACACCACCAAAGCAACCTATAGTTGATA

CATCTGCTGAATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC212982 representing NM_152756
Red=Cloning site Green=Tags(s)

MAAIGRGRSLKNLRVGRNDSGEENVPLDLTREPNDLREILQNVARLQGVSNMRKLGHLNFTKLLCDI
GHSEELGFHYEDIICLRLALLNEAKEVRAAGLRALRYLIQDSSILQKVLKLVVDYLIARCIDIQGSNE
VERTQALRLVRKMITVNASLFPSSVTNSLIVAGNDGLQERDRMVRACIAIICELALQNPEVVALRGGNT
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FLASKMGIATFRSWAGIINLCKPGNSGIQSLIGVLCIPNMEIRRGLLEVLVDIFRPLPVVTEEFIEAL
LSVDPGRFQDSWRLSDGFVAEAKTILPHRARSRPDLMDNYLALILSAFIRNGLLEGLVEVITNSDDHIS
VRATILLGELLHMANTILPHSHSHLHCLPTLMNMAASFIPKEKRLRASAALNCLKRFHEMKRGPYPY
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RFGSSSTSTFFLDINEDTEPTFYDRSGPIKDKNSFPFFASSKLVKNRILNSLTLPNKKHRSSDPKGGK
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NTLQRSSSVRSMVSSATYGGSDDYIGLALPVDINDIFQVKDIPYFQTKNIPPHDDR GARAF AHDAGGLPS
GTGGLVKNSFHLLRQMSL TEIMNSIHSASL FLESTEDTGLQEHTDDNCLYCVCIEILGFQPSNQLSAI
CSHSDFDIPYSDWCEQTIHNPLEVVPKFSGISGCSDGVSQEGSASSTKSTELLGVKTIIPDDTPMCRI
LLRKEVLRVILNLSVSTKCHETGLLTIKEKYPQTFDDICLYSEVSHLLSHCTFRLPCRRIQELFQDV
QFLQMHEEAVALATPPKQPIVDTSAES

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8119_c09.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:

ACCN:

NM_152756

ORF Size:

5124 bp

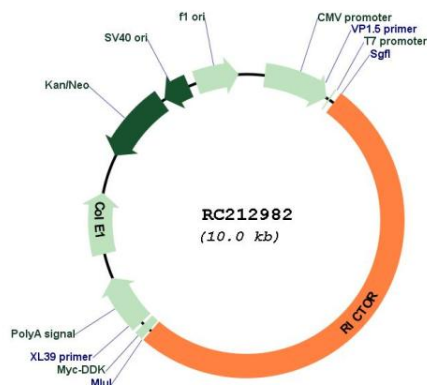
OTI Disclaimer:

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:	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:	<ol style="list-style-type: none"> 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:	<u>NM_152756.4, NP_689969.2</u>
RefSeq Size:	9557 bp
RefSeq ORF:	5127 bp
Locus ID:	253260
UniProt ID:	<u>Q6R327</u>
Cytogenetics:	5p13.1
Protein Pathways:	mTOR signaling pathway
MW:	192.7 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]

Product images:



Circular map for RC212982