

## Product datasheet for MC224849

### Rictor (NM\_030168) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Rictor (NM_030168) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rictor
Synonyms:	4921505C17Rik; 6030405M08Rik; AVO3; AW492497; D530039E11Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224849 representing NM_030168 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGCGGCATCGGCCGCGCCGCTCTCTGAAGAACCTCCGAATACGAGGGCGGAATGACAGCGCGGAGG  
AGAACGTCCCGCTCGATCTGACCCGAGAACCTTCTGATAACTTGAGGGAGATTCTCCAAATGTGCCAA  
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TTCAGAAAGATATATTTGTTCTTAAGGATACAGAGGAAGCTCTTTTAATAAACCTTAGAGACAGCCAAGT  
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 ACCCTCCAGCGCTCCTCCTCAGTTAGTCTATGGTGTCCAGTGTACATATGGAGGTTCCGATGACTACA  
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 CAGCACAAAAGCACTGAGCTGTTACTGGGTGTTAAAACCATTCCAGATGACACACCCATGTGCCGGATC  
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 CCGGGCTTCTGACCATAAAGAGAAGTATCCTCAAACATTTGATGACATATGCCTTTATTCTGAAGTTTC  
 TCATCTGTTGTACACTGCACATTTAGACTTCACTGTCGGCGGTTCATACAAGAGTTATTTCAAGGATGA  
 CAGTTTTTACAAATGCATGAAGAAGCAGAGGCTGTGTTGGCAATTCACCAATTCAGCCTATAGTTGATG  
 AGTCTGCTGAATCCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_030168

**Insert Size:** 5127 bp

**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).

**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\\_030168.3](#), [NP\\_084444.3](#)

**RefSeq Size:** 9328 bp

**RefSeq ORF:** 5127 bp

**Locus ID:** 78757

**UniProt ID:** [Q6QI06](#)

**Cytogenetics:** 15 A1

**Gene Summary:** Subunit of mTORC2, which regulates cell growth and survival in response to hormonal signals. mTORC2 is activated by growth factors, but, in contrast to mTORC1, seems to be nutrient-insensitive. mTORC2 seems to function upstream of Rho GTPases to regulate the actin cytoskeleton, probably by activating one or more Rho-type guanine nucleotide exchange factors. mTORC2 promotes the serum-induced formation of stress-fibers or F-actin. mTORC2 plays a critical role in AKT1 'Ser-473' phosphorylation, which may facilitate the phosphorylation of the activation loop of AKT1 on 'Thr-308' by PDK1 which is a prerequisite for full activation. mTORC2 regulates the phosphorylation of SGK1 at 'Ser-422'. mTORC2 also modulates the phosphorylation of PRKCA on 'Ser-657'. Plays an essential role in embryonic growth and development.[UniProtKB/Swiss-Prot Function]