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Product datasheet for MC224267

Rptor (NM_028898) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rptor (NM_028898) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Rptor
Synonyms:	4932417H02Rik; mKIAA1303; r; Rap; Raptor
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224267 representing NM_028898 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGAGTCGGAGATGCTGCAGTCGCCTCTTATGGGACTCGGGGAGGAAGATGAGGCGGACCTTACAGATT GGAACTTGCCTTTGGCTTTTATGAAGAAAAGACATTGTGAGAAAATCGAAGGCTCCAAATCTTTAGCGCA GAGCTGGAGAATGAAGGATCGGATGAAGACGGTGAGTGTGGCCTTGGTCCTGTGCCTGAATGTGGGTGTG GATCCTCCGGATGTGGTGAAGACCACACCCTGTGCTCGGCTGGAATGCTGGATCGATCCTCTGTCTATGG GCCCTCAGAAAGCTCTGGAAACCATCGGTGCAAACCTACAGAAGCAGTATGAGAACTGGCAGCCAAGGGC TCGGTACAAGCAGAGCCTCGACCCTACTGTGGATGAAGTCAAGAAACTTTGCACATCTCTGCGCCGGAAC GCCAAGGAGGAACGGGTCCTTTTCCACTACAATGGCCACGGGGTGCCCAGGCCTACAGTGAATGGAGAGG TCTGGGTCTTCAACAAGAACTACACTCAGTACATCCCTCTGTCCATATACGACCTGCAGACGTGGATGGG CAGCCCATCCATCTTTGTCTACGACTGTTCCAATGCTGGCCTCATCGTCAAGTCCTTCAAACAGTTTGCA CTGCAGAGGGAGCAGGAACTAGAGGTAGCTGCGATTAACCCAAACCATCCACTTGCCCAGATGCCCTTGC CTCCCTCAATGAAAAACTGCATCCAGTTGGCAGCGTGTGAGGCACACGAGCTGCTGCCCATGATCCCTGA CCTCCCAGCCGACCTGTTCACATCCTGCCTCACCACTCCCATCAAGATTGCTCTGCGCTGGTTTTGCATG CAGAAGTGCGTGAGTCTGGTGCCTGGAGTCACACTGGATTTGATAGAAAAGATCCCTGGCCGGCTGAATG ACCGGAGGACCCCTCTGGGAGAGCTGAACTGGATCTTCACAGCCATCACAGATACCATCGCCTGGAATGT GCTCCCTCGGGATCTCTTCCAAAAGCTTTTCCGACAGGACCTGCTCGTGGCAAGTTTGTTTAGAAATTTT TTATTGGCAGAAAGAATCATGAGGTCATATAACTGCACCCCAGTAAGCAGCCCGCGGCTCCCCCCGACAT ACATGCATGCCATGTGGCAGGCCTGGGACCTTGCTGTGGACATTTGCCTCTCTCAGCTGCCAACCATCAT CGAAGAGGGTACTGCCTTCAGGCACAGCCCATTCTTTGCCGAGCAGCTGACAGCATTCCAGGTGTGGCTC ACAATGGGTGTGGAAAACAGGAGCCCCCCAGAGCAGCTGCCCATCGTCCTGCAGGTGCTGCTAAGCCAGG TGCACCGGCTGAGAGCATTGGACTTGCTGGGACGGTTTTTGGACTTGGGCCCTTGGGCGGTGAGCTTGGC CCTGTCGGTGGGCATCTTCCCCTATGTACTGAAGCTGCTTCAGAGCTCAGCCCGAGAGCTTCGGCCACTC

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CTTGTCTTCATCTGGGCCAAAATCCTCGCTGTCGACAGTTCGTGCCAAGCTGACCTCGTGAAGGACAACG
GTCACAAGTACTTCCTATCCGTCTTGGCAGACCCATACATGCCAGCTGAACATAGGACCATGACAGCCTT
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CGTGTCTACGACAGGAGGATGGCACTCAGTGAATGCCGGGTCATGACTTACCGAGAGCACACAGCGTGGG
TGGTAAAGGCCTACCTGCAGAAGCACCCTGAGGGCCACATCGTGAGTGTGAGTGTCAATGGAGATGTGCG
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GAGAAGCGTGTCAGATAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1945_h11.zip

Restriction Sites: SgfI-MluI

ACCN: NM_028898

Insert Size: 4008 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

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_028898.2, NP_083174.2

RefSeq Size: 6956 bp

RefSeq ORF: 4008 bp

Locus ID: 74370

Cytogenetics: 11 E2

Gene Summary: This gene encodes a subunit of mammalian target of rapamycin complex 1 (mTORC1), a component of the mTOR signaling pathway, which regulates cell growth in response to nutrient and energy levels. The encoded protein may regulate the assembly, localization, and substrate binding of the mTORC1 complex. Homozygous knockout mice for this gene exhibit embryonic lethality. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2015]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).