

## Product datasheet for MR224324

### Deptor (NM\_001037937) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Deptor (NM\_001037937) Mouse Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: Deptor  
 Synonyms: Depdc6  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >MR224324 representing NM\_001037937  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAAACAAGCCTTCTGGTGGTTCTCAGGCATTCTATCTCTGAGGATCGACTTCCTCCTCTGAGTGTA  
 TAACCTCAGGCTGCAGGCTGCGGCTCCATGAAGAAAAGGTTATTAAGATAGACGGCACCATCTCAAAC  
 CTACCCAACTGCTTTGTTGCAAAAGAGCTGATTGACTGGCTCATTGAACATAAGGAGGCCTCTGACCGA  
 GAGACGGGATAAACTCATGCAGAAATAGCCGACCGGGGCATCATTATCACGTGTGTGATGAGCACA  
 AGGAATCAAGGATGTAAGTCTTCTACCGCTTAGGAAGGATGATGGGACCTTGCCTGGACAGTGA  
 GGTGAAGGCCTTCATGAGAGGACAGAGGCTCTATGAAAACTGATGAGCCCTGAACTACACTCCTCCAG  
 CCTAGAGAGGAGGAGGGGTGAAGTATGAGCGGACCTTCATGGCATCCGAATTCCTGGACTGGTTGGTTC  
 AGGAAGGTGAAGCCACAACAAGGAAAGAGGCAGAGCAGCTTGGCCACCGCTTATGGACCATGGGATCAT  
 CCAGCATGTGTCTAACAAGCACCCGTTTGTGGACAGCAACCTCCTCTACCACTCAGAATGAACTCCGT  
 CGGAGGCGGAGGCTGATGGAGCTGCTCAATGAGACGTCCCGTCTCTCAGGAGACGCATGACAGTCCCT  
 TCTGTCTGAGGAAGCAGAGCCACGACAGTCGGAATCTACCACTTATGTCAGTCAGCCCCAGCAAGGA  
 GATCAAGATCGTGTCTGCCGTGCGGAGGAGCAGCATGAGCAGCTCGGCAGCAGTGGCTACTTCAGCAGC  
 AGCCCCACTCAGCAGCAGCCCCCTGTGCTCTGCAACCCAAATCTGTGCTGAAGAGACCTGTCATT  
 CTGAGGAACTCTTGACTCCGGGGCTCCGTACGCAAGGAAGACATTCACGATTGTTGGTGACGAGTTGG  
 CTGGGGCTTTGTGGTACGAGGAAGTAAACCATGCCACATCCAGGCTGTGGACCCAGTGGACCTGCAGCC  
 GCTGCAGGGATGAAGTCTGTGAGTTTGTGCTCTGTCAATGGCCTCAACGTGCTGAATGTAGACTACC  
 GCACCGTGAGCAATCTGATTCTGACAGGCCAAGGACAATTGTCATGGAAGTCATGGAGGAGTTGGACTG  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR224324 representing NM\_001037937  
 Red=Cloning site Green=Tags(s)

MKQAFVLVLRHSISEDRLPPLSVITSGCRLRLHEEKVIKDRRHHLKTYPNCFVAKELIDWLEIHKESDR  
 ETAIKLMQKLADRGIIHHCDEHKEFKDVKLFYRFRKDDGTFALDSEVKAFMRGQRLYEKLMSPETLLQ  
 PREEEGVKYERTFMASEFLDWLVQEGEATTRKEAEQLCHRLMDHGIIQHVS NKHPFVDSNLLYQFRMNF  
 RRRRLMELLNETSPSSQETHDSPFCLRKQSHDSRKSTSFMSVSPSKEIKIVSAVRRSSMSSCGSSGYFSS  
 SPTLSSSPPVLCNPKSVLKRPTSEELLTPGAPYARKTFITVGDVAVGWGFVVRGSKPCHIQA VDPSPGAA  
 AAGMKVCQFVVSVNLNVLNVDYRTVSNLILTGPRITIVMEVMEELDC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001037937

**ORF Size:** 1191 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\\_001037937.3](#), [NP\\_001033026.1](#)

**RefSeq Size:** 3300 bp

**RefSeq ORF:** 1194 bp

**Locus ID:** 97998

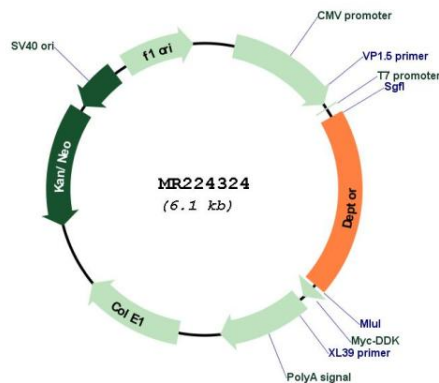
**UniProt ID:** [Q570Y9](#)

**Cytogenetics:** 15 21.96 cM

**MW:** 45.7 kDa

**Gene Summary:** Negative regulator of the mTORC1 and mTORC2 signaling pathways. Inhibits the kinase activity of both complexes (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR224324