

Product datasheet for **MC224652**

Depdc5 (NM_001025426) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Depdc5 (NM_001025426) Mouse Untagged Clone
Tag: Tag Free
Symbol: Depdc5
Synonyms: AV016528
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224652 representing NM_001025426
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAGAACCACAAAGGTCTACAACTTGTTCATCCACAAGAAGGGCTTTGGGGCAGTGATGATGAGCTAG
TCGTGAACCTAAAGTATTTCCACATCAAACCTGGAGACATTGGAGATTGCTCACCCCAATGATGA
GTACAGTCTTTGCTTTTGAAGTCAAGTCGCTTAAGGAAGATTTACAGAAAGAACTATCAGTGTGGAC
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TCCGTTTACGTCGGCTATGGTTTACATATTTATTCAGATGAGCTGTGAAATGTGGGATTTTATTTA
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TATCCAGTGTGGTGGCAGTGGAAACAGGAGGGGGCTTTCTCAAGGAGACAATTCTACCTCAGCACAAG
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AGTCGCAAAAGTGAAGCTCCTGTGATGTCTCATCCAGCCCTTCCTGCCAAGCCGTGACTGCCCACTG



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 CCTCTGCAGAGCTGTTGGAGTTGGCATACCATGAAGCTGCCGGGAGGCACAGCACTTCCC GCCAGCCTGG
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 CGGCTCGAGGAATACAAGTGAATTACTTAGATCAGTATATTTGTTCTGCTGGCTCTGAAGACTTACGT
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 CAATGCCGCTTTGAGATCAAGCTACACTGGATGGCAGTACTGCCACAGTGTGTTGAGATGGTCCAA
 GGTGGCATCGAAAAGTACCTCCTGTGGCTTCTGCTGGTCCCAGTTTTGGAGGGTCTTTTGTCTGCTGC
 CCAGTTACCTGTATGGTATCCCCTGAGGGCCAGCTTTCATCCCGCTCAACCTCAGCTGCTTGTCAA
 GGAGGGCAGCAGCACCTGTTTCGATAGTTTGGATTTGTGCAAGATAAATATTCTGCTCCGCTTTTAACT
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 ACGCAAGTTTTCAGGGCAGCAGCGGGCGGACGGAACCTTACCAGCTCCACCAACCAAAACATGTTCTGT
 GAGGAGCGGGTGGCTACAACCTGGGCTACAACACCATGCTGA

ACGGCTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_001025426
 Insert Size: 4593 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:	<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_001025426.2</u> , <u>NP_001020597.1</u>
RefSeq Size:	8213 bp
RefSeq ORF:	4593 bp
Locus ID:	277854
Cytogenetics:	5 17.35 cM
Gene Summary:	<p>As a component of the GATOR1 complex functions as an inhibitor of the amino acid-sensing branch of the TORC1 pathway. The GATOR1 complex strongly increases GTP hydrolysis by RRAGA and RRAGB within RRAGC-containing heterodimers, thereby deactivating RRAGs, releasing mTORC1 from lysosomal surface and inhibiting mTORC1 signaling. The GATOR1 complex is negatively regulated by GATOR2 the other GATOR subcomplex in this amino acid-sensing branch of the TORC1 pathway.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>