

Product datasheet for **MC223497**

Depdc5 (NM_177786) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Depdc5 (NM_177786) 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: >MC223497 representing NM_177786
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGAACCACAAAGGTCTACAACTTGTTCATCCACAAGAAGGGCTTTGGGGCAGTGATGATGAGCTAG
 TCGTGAACCTAAAGTATTTCCACATCAAACCTGGAGACATTGGAGATTGCTCACCCCAATGATGA
 GTACAGTCTTTGCTTTTGAAGTCAAGTCGCTTAAGGAAGATTTACAGAAAGAACTATCAGTGTGGAC
 CAGACTGTGACTCAAGTATTCGGCTAAGACCTTATCAAGATGTCTATGTGAATGTTGTAGACCCCAAGG
 ATGTGACTCTTGACCTGGTGAATTGACTTTTAAAGGATCAGTATATTGGCCGTGGGGATATGTGGCGACT
 AAAGAAAAGTTTGGTGAACCTGTGCCTATATCACTCAAAAAGTGAATTTGCTGGCATCAGGGCAGAC
 GCTGGTGAAGTGTGGGTCAAGAAATGAGAAGGTCATGTGTGGTTACATTAGTGAAGAGACCAGGGTGGTGT
 TCCGTTTACGTCGGCTATGGTTTACATATTTATTCAGATGAGCTGTGAAATGTGGGATTTGATATTTA
 TGGGGATCTGACTTTGAGAAAGCTGTGAACGGTTTCTCGCCGACCTGTTTACTAAATGGAAGGAGAAG
 AACTGTAGTCATGAAGTACTGTGGTCTGTTTCCAGAACTTCTATGATGCAAAATCTATTGATGAAT
 TTCCTGAAATAAACCCGAGCTTCAATTCAGAGGATCACAAGGGGAGATTCTATGAGGACTTTTACAAGT
 GGTGGTGCAGAATGAGAGAAGGGAAGAGTGGACTTCACTCCTCGTACCATTAAAAAAGTCTTCATCCAG
 TATCCAGTGTGGTGGCGACTGGAACAGGAGGGGCTTTCTCAAGGAGACAATTCTACCTCAGCACAAG
 GAAACTACCTAGAGGCCATCAACTTGTCAATTCAATGTGTTTGACAAGCACTACATCAACCGAACTTTGA
 CCGAAGTGGCAGATGTCTGTGGTGTACGCGGGGGTGGTGTCTTTGAAGTGGACCGCTACTCATG
 ATCTTGACCAAGCAGCGGATGATTGATAATGGAATTTGGTGTGGACTTAGTGTGCATGGGAGAGCAGCCAC
 TACATGCTGTGCCATTATCAAGCTACATAACCGGAGTGTCCGAGGGATTCTCGACTGGGTGATGATTA
 TAATATTCCTCACTGGATAAACCATAGTTTCTACACATCCAAAAGCCAGCTCTTTTGTAAACAGTTTCACT
 CCACGGATAAACTAGCAGGAAAGAAGTCTGCCTCTGAGAAAACCAAAAATGGTCTGTATACATCTCTCG
 GGACTCCAAAGGAATCTGAAAACACCTTCCCATCCAAGTAGATTATGATGCCTACGATGCTCAAGTGTT
 CAGGCTGCCTGGCCATCCCGGGCTCAGCGCCTCGCCACCTGCAGGTCTGTGAGAGAACAGGAGAATCAC
 AGTCGCAAAAGTGAAGTCTCTGTGATGTCTATCCAGCCCTTCCTGCCAAGCCGTGACTGCCCACTG



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AGGAAGTGAGGAGCCAGGCTTCTGATGACAGCTCCCTGGGCAAGAGCACCAACATCCTGATGATCCCTAA
 CCCCCACCTGCACCAGTATGAAGTCAGCAGCTCACTGGGCTACACCAGCACCCGAGATGTCTGGAGAAC
 ATGATAGAACCCACAGAGGGACTCCAGTGCACCAGGAAGTTCCATGTGGGTAGTGCAGAGTCCATGC
 TCCATGTCCGACCTGGAGGATACACGCCTCAGAGAGCGCTGATTAACCCCTTCGCCCCCTCGAGGATGCC
 CATGAAGTCCACTCCAACAGAAGGCGCTGGATGCACACTTTTCTGTAGGCCACTCTGGAGAGGCCATC
 CAGATCCATCATCAGACCCGGCAAAACATGGCAGAGCTGCAGGGCAGCAGGCAGAGGGACCCTACCCACT
 CCTCTGCAGAGCTGTTGGAGTTGGCATACCATGAAGCTGCCGGGAGGCACAGCACTTCCCAGCCTGG
 TGACAGCATGTCCTTGAACCTCAGTGGAAACGGAAGAGCTTTCTGTCAGCCTGCTTAGCAACAGCAGTACA
 GGTGTGAATCCTAGGACCCAGAACAAGGACTCCCTAGAGGACAGTGTCTTACTCTCCAGACCCAAATGC
 CAGGCTTCTGTTGCACAGTTGGAGTGGATTGGAAGTCTTACTACTCCTGCATGCCTTCCCCTACCAC
 TGACTACTTCCCAGCCTCAGGGCCTGCAGAATGACTACACAGAGGGCTGCTATGATCTCCTCCAGAA
 GCAGACATGGACAGGAGGGATGAGGAGGGTGTCAAATGACAGCCAGCAAGTGTGTTGAAGATTTCATCT
 GCCAGCGTCTCATGCAGGGTTACCAAATCATAGTACAGCCAAAGACCCAGAAACCCAAACACCACAGTCCC
 ACCCCATTGAGCAGTAGCCACTCTATAGCAGAGGCCTTGTGTCCGAAATCGCCCTGAGGAGGAAGGC
 CAGTATTGGTTAAGTATGGGCAGAACTTCCATAAGGTGACACTCAAGGACAAGATGATCACAGTAACTC
 GTTACCTTCCCAAGTACCCTTATGAATCTGCCAGATCCATTACACCTACAGCCTTGCCCTTCCCCTC
 TGACTCGGAGTTTGTCTCCTGTTGGGTGGATTTCTGCCACGAACGGCTCGAGGAATAAAGTGAATTAC
 TTAGATCAGTATATTTGTTCTGCTGGCTCTGAAGACTTCAGCTTAATCGAGTCTCTGAAGTTCTGGAGAA
 CCCGATTTTTACTACTGCCAGCCTGTGTTACTGCCACCAAGCGCATCACAGAAGGGGAGGTGCACTGTGA
 CATCTATGGGGACAAACCCCGTGCAGATGAAGATGAGTGGCAGCTTCTAGATGGCTTTATTCGCTTTGTA
 GAGGGCTTAAATCGCATCCGACAGCGCCACCGCTCAGACCGCATGATTCGGAAGGGGACTGCCATGAAAG
 GCTTGCAGATGACCGGGCCATCTCTGCACACTCTCTCGAGGCAGCAGGCCCTCCAGTCGGAAGAAGG
 AACCTCAGCTCTGTCTGCCCTGCTGGAGATGGAAGCTAGTCAGAAGAGCCTAGGAGAACAGCAGACGACT
 GTGCACGGAAAAAGTCCACTCAGCCAGCTGAGAACAGCAGTGTGCCATGACTCCCACCTATGTGGACA
 GCCACGCAAGGTGCAGCATGTGACCCGCACAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_177786
- Insert Size:** 3258 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_177786.4](#), [NP_808454.2](#)

RefSeq Size: 3569 bp

RefSeq ORF: 3258 bp

Locus ID: 277854

Cytogenetics: 5 17.35 cM

Gene Summary: 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]

Transcript Variant: This variant (2) differs in the 5' UTR, 3' UTR, and coding region, compared to variant 1. The encoded isoform (2) has a distinct C-terminus and is shorter than isoform 1. 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.