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Product datasheet for MC224728

Depdc5 (NM_001170567) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Depdc5 (NM_001170567) 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:	>MC224728 representing NM_001170567 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGAACCACAAAGGTCTACAAACTTGTCATCCACAAGAAGGGCTTTGGGGGCAGTGATGATGAGCTAG TCGTGAACCCTAAAGTATTTCCTCACATCAAACTTGGAGACATTGTGGAGATTGCTCACCCCAATGATGA GTACAGTCCTTTGCTTTTGCAAGTCAAGTCGCTTAAGGAAGATTTACAGAAAGAAACTATCAGTGTGGAC CAGACTGTGACTCAAGTATTCCGGCTAAGACCTTATCAAGATGTCTATGTGAATGTTGTAGACCCCAAGG ATGTGACTCTTGACCTGGTGGAATTGACTTTTAAGGATCAGTATATTGGCCGTGGGGATATGTGGCGACT AAAGAAAAGTTTGGTGAGCACCTGTGCCTATATCACTCAAAAAGTGGAATTTGCTGGCATCAGGGCACAG GCTGGTGAGCTGTGGGTCAAGAATGAGAAGGTCATGTGTGGTTACATTAGTGAAGAGACCAGGGTGGTGT TCCGTTCTACGTCGGCTATGGTTTACATATTTATTCAGATGAGCTGTGAAATGTGGGATTTTGATATTTA TGGGGATCTGTACTTTGAGAAAGCTGTGAACGGTTTCCTCGCCGACCTGTTTACTAAATGGAAGGAGAAG AACTGTAGTCATGAAGTGACTGTGGTCCTGTTTTCCAGAACTTTCTATGATGCAAAATCTATTGATGAAT TTCCTGAAATAAACCGAGCTTCAATTCAAGAGGATCACAAAGGGAGATTCTATGAGGACTTTTACAAAGT GGTGGTGCAGAATGAGAGAAGGGAAGAGTGGACTTCACTCCTCGTGACCATTAAAAAACTCTTCATCCAG TATCCAGTGTTGGTGCGACTGGAACAGGCAGGGGGCTTTCCTCAAGGAGACAATTCTACCTCAGCACAAG GAAACTACCTAGAGGCCATCAACTTGTCATTCAATGTGTTTGACAAGCACTACATCAACCGAAACTTTGA CCGAACTGGGCAGATGTCTGTGGTGATCACGCCGGGGGTGGGTGTCTTTGAAGTGGACCGCCTACTCATG ATCTTGACCAAGCAGCGGATGATTGATAATGGAATTGGTGTGGACTTAGTGTGCATGGGAGAGCAGCCAC TACATGCTGTGCCATTATTCAAGCTACATAACCGGAGTGTTCCGAGGGATTCTCGACTGGGTGATGATTA TAATATTCCTCACTGGATAAACCATAGTTTCTACACATCCAAAAGCCAGCTCTTTTGTAACAGTTTCACT CCACGGATAAAACTAGCAGGAAAGAAGTCTGCCTCTGAGAAAACCAAAAATGGTCGTGATACATCTCTCG GGACTCCAAAGGAATCTGAAAACACCCTTCCCATCCAAGTAGATTATGATGCCTACGATGCTCAAGTGTT CAGGCTGCCTGGCCCATCCCGGGCTCAGCGCCTCGCCACCTGCAGGTCTGTGAGAGAACAGGAGAATCAC AGTCGCAAAAGTGCAAGCTCCTGTGATGTCTCATCCAGCCCTTCCCTGCCAAGCCGTGCACTGCCCACTG

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TGCCAGTGCTCCATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_001170567
Insert Size:	4776 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_001170567.1, NP_001164038.1
RefSeq Size:	7944 bp
RefSeq ORF:	4776 bp
Locus ID:	277854
UniProt ID:	P61460
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 (3) differs in the 5' UTR, uses an alternate in-frame splice site and includes an alternate exon in the 3' coding region, which results in a frameshift, compared to variant 1. The encoded isoform (3) has a distinct C-terminus and is longer 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.