

## Product datasheet for **SC330053**

### DEPDC5 (NM\_001242896) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** DEPDC5 (NM\_001242896) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** DEPDC5  
**Synonyms:** DEP.5; FFEVF; FFEVF1  
**Vector:** pCMV6-Entry (PS100001)  
**Fully Sequenced ORF:** >SC330053 representing NM\_001242896.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

ATGAGAACAACAAAGGTCTACAACTCGTCATCCACAAGAAGGGCTTTGGGGCAGTGATGATGAGCTA
GTTGTGAACCCAAAGTGTCCCTCACATCAAGCTTGGAGACATTGTAGAGATTGCACACCCCAACGAT
GAATACAGCCCTCTGCTTTTGCAGGTCAAGTCTCTTAAGGAAGATTTACAGAAGGAACTATCAGTGTG
GACCAGACTGTGACTCAAGTGTCCGGCTGAGACCTTATCAGGATGTCTATGTTAATGTCGTAGACCCT
AAGGATGTGACCCTTGACCTAGTGAATTAACCTTTAAGGATCAGTATATTGGCCGTGGGGATATGTGG
CGACTAAAGAAAAGTTTGGTCAGCACATGTGCCTATATCACCCAGAAGGTGGAGTTTGTGGCATCAGA
GCACAGGCTGGTGAAGTGTGGGTTAAGAATGAGAAGGTCATGTGTGGCTACATCAGTGAAGATACCAGG
GTGGTGTTCGTTCTACGTCGGCTATGGTTTACATATTTATTCAGATGAGCTGTGAAATGTGGGATTTT
GATATTTATGGGGATTTGTATTTTGGAGAAAGCTGTGAATGGTTTCCCTTGCTGATCTATTTACCAAGTGG
AAGGAGAAGAAGTGTAGTCATGAAGTGACAGTGGTCTCTGTTTCTAGAAGTTTCTATGATGCAAAATCT
GTTGATGAATTTCTGAAATAAACCAGGCTCAATTCGACAGGATCACAAGGGGAGATTCTATGAAGAC
TTTTACAAAGTGGTGGTGCAGATGAGAGAAGAGAAGAATGGACTTCACTTCTCGTAACCATTAATAA
CTTTCATCCAGTATCCAGTGTGGTGGCAGTGGAAACAGGCAGAGGGCTTCTCAAGGAGATAATTCT
ACCTCAGCACAAGGAACTACCTGGAGCCATCAATCTGTCATTCAATGTGTTTGATAAGCACTACATC
AACCGCAACTTTGACCGAAGTGGCAGATGTGAGTGGTATCACGCCCGGGTGGGTGTCTTTGAAGTG
GACCGCTACTCATGATCCTGACCAAGCAGCGGATGATAGATAATGGAATTGGTGTGGATTTGGTGTGC
ATGGGAGAGCAACCGTTACATGCTGTCCCATTGTTCAAGCTCCATAATCGGAGTGTCTCCCGTGATTCT
CGTCTGGGCGATGACTATAATATCCCTCACTGGATAAACCACAGTTTCTACACATCCAAAAGCCAGCTC
TTTTGTAATAGTTTACCCACGAATAAACTGGCAGGAAAGAAGCCCGCTCTGAGAAAGCAAAAAT
GGCCGTGATACATCTCTCGGGAGTCCAAAAGAATCTGAGAAGCCCTTCCATCCAAGTAGATTATGAC
GCCTATGACGCTCAAGTGTTCAGGCTGCCCGCCATCCCGGGCCAGTGCCTCACCACCTGCAGATCT
GTGCGAGAGCGAGAGAGTACAGTCGAAAGAGTGCCAGTCTCTGTGATGTTTCATCCAGCCCTTCCCTA
CCAAGCCGACACTGCCACTGAGGAAGTGAAGGAGCCAGGCTTCTGACGACAGCTCCCTAGGCAAGAGT
GCCAACATCCTGATGATCCACACCCCCACCTGCACCAGTATGAAGTCAGCAGCTCCTTGGGATACACC
AGCACTCGAGATGCTCTGGAGAATGATGGAGCCACCACAGCGAGACTCCAGTGCACCAGGGAGGTTT
CACGTTGGCAGTGCAGAAATCCATGCTGCATGTTGACCTGGTGGATACACGCCCCAGAGAGCACTGATT
AACCCCTTCGCTCCCTCTCGGATGCCATGAAGCTTACGTCCAACAGAAGGGCTGGATGCACACTTTT
CCTGTGGGGCCATCCGGAGAAGCCATCCAGATCCACCACCAGACCCGACAGAATATGGCGGAGCTACAA
  
```

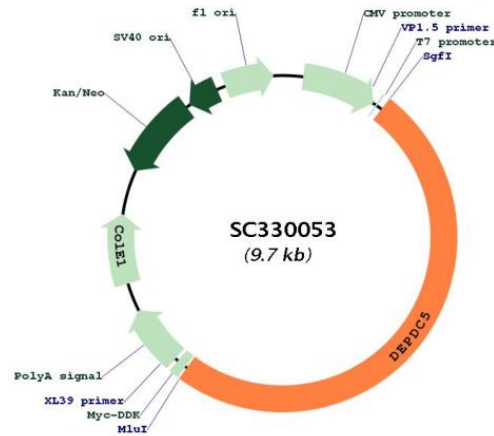


[View online »](#)

GGCAGCGGGCAGAGGGATCCAACACTCCTCTGCAGAGCTGCTGGAGTTAGCATATCATGAAGCTGCT  
 GGAAGGCACAGCAATCCCGCCAGCCTGGTGACGGCATGTCTTCTTGAACCTCAGTGGAACAGAGGAG  
 CTTTCTGTGCGCCTGCTTAGCAACAGTGGTGCAGGTATGAATCCTAGGACCCAGAATAAGGATTCTTA  
 GAGGACAGTGTCTACCTCTCCAGACCAATTCTGACTGTCTGCTCCCCCTGTAGTGCCAGGCTTC  
 TGTTGCACAGTTGGAGTGGACTGGAAGTCTCTCACTACTCCGGCGTGCCTCCCCCTTACCACCGACTAC  
 TTCCCTGACCGCCAGGGCCTGCAGAACTGACTACACAGAGGGCTGTTATGATCTCCTTCCAGAAGCAGAC  
 ATCGACAGGAGGGACGAAGATGGTGTGCAGATGACAGCCAGCAGGTATTTGAAGATTTATTTGCCAA  
 CGTCTCATGCAGGGCTACCAAATCATAGTGCAGCCCAAGACACAGAAACCAATCCTGCTGCCCGCC  
 CCGCTGAGCAGTAGCCACTCTATAGCCGAGGCCTTGTGTCCCGAAACCGCCCTGAGGAGGAGGACCAG  
 TATTGGCTGAGTATGGGCAGAACGTTCCACAAAGTGACGCTGAAGGATAAGATGATCACAGTGACGCGA  
 TACCTTCCCAAGTATCCTTATGAATCTGCCAGATCCACTACACCTACAGCCTCTGTCTTCCACTCA  
 GACTCAGAGTTTCTCTCTGCTGGGTGGAATTCTCCACGAACGGCTGGAGGAGTACAAGTGAATTAC  
 TTAGATCAGTATATCTGTTCTGCCGGCTCTGAAGACTTCACTTAATTGAGTCCCTGAAGTTCTGGAGG  
 ACCCGCTTCTGTGCTGCCAGCCTGTGTACCGCCACCAAGCGCATCACGGAGGGGGAGGCCACTGC  
 GACATCTATGGGGACAGGCCCTGCGAGACGAGGACGAGTGGCAACTCCTGGATGGTTTTGTCCGCTTT  
 GTGGAGGGCTTGAATCGCATTCCGAGGGCGCATCGCTCGGATCGCATGATGCGGAAAGGGACCGCCATG  
 AAAGGCTTGCAGATGACTGGGCCATTTCCACGCATTCTCTGGAGTCAACTGCACCCCCAGTGGGGAAG  
 AAGGGAACCTCAGCTCTCTGCCCTGTTGGAGATGGAGGCCAGTCAAGTGCCTGGGAGAACAGCAG  
 GCAGCTGTGCATGGTGGGAAGAGCTCCGCCAGTCAAGGAGAGCAGCAGCGTTGCCATGACTCCCACC  
 TACATGGACAGCCACGAAAGGACGGGGCTTCTTTATGGAGTTTGTCCGAGCCACGCACAGCATCG  
 TCCGCCTTCTACCCTCAGGTATCTGTGGACCAACAGCCACTCCTATGTTGGACGGCACCAGTTTGGGC  
 ATATGCACAGGCCAATCCATGGACAGAGGCAACAGCCAGACCTTGGGAACTCCAGAACATAGGAGAA  
 CAGGGCTACTCCTCCACAACTCCAGTGACAGCAGCTCTCAGCAGCTGGTGGCAAGCTCCTTGACCTCA  
 TCCTTACCCTGACAGAGATCCTGGAAGCCATGAAGACCCCTCGACAGGAGTCCAGCTGCTCTGAA  
 CAGAAGGGCCTCTCACCGTACTGCTTATCAGCGCGGAGGTGGTACACTGGTTGGTGAACCAGTGGAG  
 GGGATCCAGACACAGGCATGGCCATTGACATCATGCAGAAAATGCTGGAAGAGCAGCTCATCACACAT  
 GCATCTGGCGAAGCCTGGCGGACCTTACTACGGCTTCTATTTCTACAAGATAGTAACGGACAAAGAG  
 CCCGACCGAGTGGCCATGCAGCAGCCCGCCACCACCTGGCACACAGCAGGAGTGGACGACTTCGCCAGC  
 TTCCAGCGCAAGTGGTTGAGGTGGCCTTTGTGGCAGAAGAGCTCGTGCCTCTGAGATTCTGCCTTT  
 CTCCTGCCCTGGCTGCCTAGCCGGCCAGCCTCCTATGCAAGTAGGCACAGCTCCTTAGCCGAAGTTTT  
 GGAGGACGGAGCCAGGCGCAGCACTTTAGCTGCCACTGTCCCAGAGCAGAGGACTGTGACCCCTGGAT  
 GTTGACGTGAACAACCGCACAGACCGGCTGGAGTGGTGCAGCTGTTATTACCATGGCAACTTTTCTCTG  
 AATGCAGCCTTTGAGATCAAGCTGCACTGGATGGCGGTGACCGCAGCAGTACTCTTCGAGATGGTCCAA  
 GGTTGGCATCGGAAAGCCACCTCCTGTGGCTTCTTGTAGTCCCAGTTTTGGAGGGGCTTTTGCCTG  
 CCCAGTTACCTGTATGGCGACCCCTTCGTGCCAGCTTTCATCCCCTCAACATCAGCTGCTTGTCTC  
 AAGGAGGGCAGCGAGCACCTGTTGATAGCTTTGAACCCGAAACGTAAGGATCGAATGCACCTTTC  
 CAGGAAGCCATTGCACACAGGTTTGGGTTTGTACAAGATAAATATTCTGCCTCTGCTTTAACTTCCT  
 GCTGAGAAACAAGCCTCAGTATATCCACGTTACAGGAACAGTGTCTGCAGCTGCCCTACTCCAAGCGC  
 AAGTTCTCAGGGCAGCAGCGCGGGCGGGAACCCACAGCTCCACCAACCAGAACATGTTCTGCGGAG  
 GAGCGGGTCCGGTACAACCTGGGCCTACAACACCATGCTCACAAAACATGGCGCTCCAGCGCCACAGGG  
 GATGAAAAGTTTCTGATCGGCTGCTGAAGGACTTACGGACTTCTGCATCAACCGTGACAAACCGGCTG  
 GTCACGTTCTGGACAAGTTGCTGGAGAAGATGCATGCCAGTGCCCGTGA

Restriction Sites:

Sgfl-Mlul

**Plasmid Map:**


**ACCN:** NM\_001242896

**Insert Size:** 4812 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\\_001242896.1](#)

**RefSeq Size:** 5551 bp

RefSeq ORF: 4812 bp

Locus ID: 9681

UniProt ID: [O75140](#)

Cytogenetics: 22q12.2-q12.3

MW: 181.3 kDa

**Gene Summary:** This gene encodes a member of the IML1 family of proteins involved in G-protein signaling pathways. The mechanistic target of rapamycin complex 1 (mTORC1) pathway regulates cell growth by sensing the availability of nutrients. The protein encoded by this gene is a component of the GATOR1 (GAP activity toward Rags) complex which inhibits the amino acid-sensing branch of the mTORC1 pathway. Mutations in this gene are associated with autosomal dominant familial focal epilepsy with variable foci. A single nucleotide polymorphism in an intron of this gene has been associated with an increased risk of hepatocellular carcinoma in individuals with chronic hepatitis C virus infection. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]  
Transcript Variant: This variant (4) represents the longest transcript and encodes the longest isoform (4).