

Product datasheet for **SC301164**

DEPDC5 (NM_001007188) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DEPDC5 (NM_001007188) Human Untagged Clone
Tag:	Tag Free
Symbol:	DEPDC5
Synonyms:	DEP.5; FFEVF; FFEVF1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

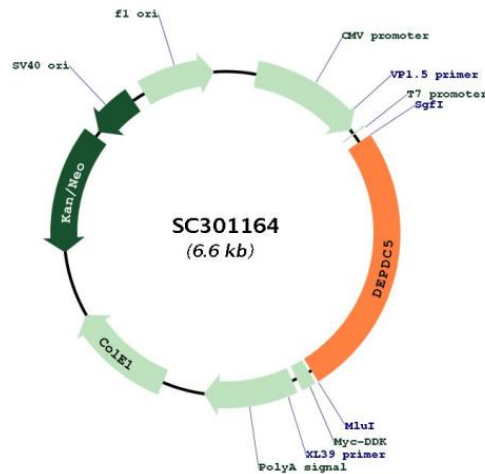


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Fully Sequenced ORF: >SC301164 representing NM_001007188.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGAACAACAAGGTCTACAACTCGTCATCCACAAGAAGGGCTTTGGGGCAGTGATGATGAGCTA
GTTGTGAACCCCAAAGTGTCCCTCACATCAAGCTTGGAGACATTGTAGAGATTGCACACCCCAACGAT
GAATACAGCCCTCTGCTTTTGCAGGTCAAGTCTCTTAAGGAAGATTTACAGAAGGAACTATCAGTGTG
GACCAGACTGTGACTCAAGTGTCCGGCTGAGACCTTATCAGGATGTCTATGTTAATGTCGTAGACCCT
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CCAAGCCGCACACTGCCACTGAGGAAGTGAGGAGCCAGGCTTCTGACGACAGCTCCCTAGGCAAGAGT
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AGCACTCGAGAGCACCTAGGATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map:


ACCN: NM_001007188

Insert Size: 1680 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001007188.2](#)

RefSeq Size: 2460 bp

RefSeq ORF: 1680 bp

Locus ID: 9681

UniProt ID: [O75140](#)

Cytogenetics: 22q12.2-q12.3

MW: 63.7 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 (2) lacks a large portion of the 3' coding region and has a different 3' structure compared to variant 4. The encoded protein (isoform 2) has a distinct C-terminus and is shorter than isoform 4.