

Product datasheet for RC227182

DEPDC5 (NM_001136029) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | DEPDC5 (NM_001136029) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | DEPDC5 |
| Synonyms: | DEP.5; FFEVF; FFEVF1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC227182 representing NM_001136029 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGAACAACAAAGGTCTACAACTCGTCATCCACAAGAAGGGCTTTGGGGCAGTGATGATGAGCTAG
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AGTCGAAAGAGTGCCAGCTCCTGTGATGTTTCATCCAGCCCTTCCTACCAAGCCGCACACTGCCACTG
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ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC227182 representing NM_001136029
 Red=Cloning site Green=Tags(s)

MRTTKVYKLVIIHKKGFGGSDELVVNPKVFPHIKLGDIVIAHPNDEYSPLLLQVKSLEDLQKETISVD
 QTVTQVFLRPYQDVYVNVVDPKDVTLDELVELTFKDQYIGRDMWRLKSLVSTCAYITQKVEFAGIRAQ
 AGELWVKNEKVMCGYISEDTRVFRSTSAMVYIFIQMSEMDFDIYGDLYFEKAVNGFLADLFTKWKKEK
 NCSHEVTVVLFSRTTFYDAKSVDFEPEINRASIRQDHKGRFYEDFYKVVVQNERREWTSLLVTIKKLFIQ
 YPVLVRLEQAEGFPQGDNSTSAQGNYLEAINLSFNVDKHYINRNFDRGTGQMSVITPGVGVFEVDRLM
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 SRKSASSCDVSSSPSLPRTLPTEEVRSQASDDSSLGKSANILMIPPHLHQYEVSSSLGYTSTRDVLEN
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 QIHHQTRQNMAELQSGQRDPHTSSAELLELAYHEAAGRHSNSRQPGDGMFLNFSGTEELSVGLLSNSG
 AGMNPRTQNKDSLEDSVSTSPDPMPGFCCTVGVWKSLLTTPACLPLTTDYFPDRQGLQNDYTEGCYDLLP
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 DQYWLSMGRTFHKVTLKDKMITVTRYLPKYPIYESAQIHYTYSLCPSHSDSEFVSCWVEFSHERLEEYKWN
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 AMQQPATTWHTAGVDDFASFQRKWFVAFVAEELVHSEIPAFLLPWLPSRPASYASRHSSFSRSFGGRSQ
 AAALLAATVPEQRTVTLDVDVNNRTDRLEWCSCYYHGNFSLNAAFEIKLHWMVTAVALFEMVQGWHRKA
 TSCGFLLVVPLEGPFALPSYLYGDLRAQLFIPLNISCLLKEGSEHLFDSFEPETYWDRMHLFQEAIAHR
 FGFVQDKYSASAFNPAENKQYIHVTGTVFLQLPYSKRKFSGQRRRRNSTSSTNQNMFCSEERVYNWA
 YNTMLTKTWRSSATGDEKFAADRLKDFDTFCINRDNRVTFWTSCKLEKMHASAP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8032_c02.zip

Restriction Sites: Sgfl-MluI

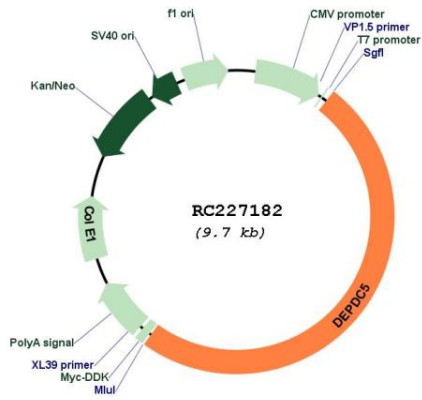
Cloning Scheme:



ACCN: NM_001136029

| | |
|-------------------------------|---|
| ORF Size: | 4782 bp |
| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| 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: | NM_001136029.3 |
| RefSeq ORF: | 4785 bp |
| Locus ID: | 9681 |
| UniProt ID: | O75140 |
| Cytogenetics: | 22q12.2-q12.3 |
| MW: | 180.2 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] |

Product images:



Circular map for RC227182