

Product datasheet for **RC207227**

DAP5 (EIF4G2) (NM_001418) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | DAP5 (EIF4G2) (NM_001418) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | DAP5 |
| Synonyms: | AAG1; DAP5; NAT1; P97 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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ORF Nucleotide Sequence:

>RC207227 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

GTGGAGAGTGCATTGCAGAAGGGGGTCTTCTCGTTTCAGTGCTTCTTCGGGCGGAGGAGGAAGTAGGG
 GTGCACCTCAGCACTATCCCAAGACTGCTGGCAACAGCGAGTTCTTGGGAAAACCCAGGGCAAACGC
 TCAGAAATGGATTCTGCACGAAGCACTAGACGAGATGACAACCTCCGCAGCAAACAACCTCCGCAAACGAA
 AAAGAACGACATGATGCAATCTTCAGGAAAGTAAGAGGCATACTAAATAAGCTTACTCTGAAAAGTTTG
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 GATTGTGGACAAAGCCCTAGAAGAGCCAAAGTATAGTCACTGTATGCTCAGCTATGCTGCGATTGGCA
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 GCGTGAAAATCCCCTCCTCCCGAGGAGGAGAACAGAGAGCCATTGCTAAGATCAAGATGTTGGGAAAC
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 CACTTTTGGAAAAGAAGAGAGTCCAACCAAGATATGGGAGAGGATTTGGAGTGCCTCTGTAGAT
 AATGAGGACAGTGGGACCTAGATTAGACCATGAACGAGCCAAGTCTTAATGGATCAGTACTTTGCCCGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207227 protein sequence
 Red=Cloning site Green=Tags(s)

VESIAIEGGASRFSASSGGGSRGAPQHYPKTAGNSEFLGKTPGQNAQKWIPARSTRRDDNSAANNSANE
 KERHDAIFRKVRGILNKLTPKFDKLCLELLNVGVESKILKGVILLIVDKALEEPKYSSLYAQLCLRLA
 EDAPNFDGPAEAGQPQKQSTTFRRLISKLQDEFENRTRNVVYDKRENPLPEEEEEQRAIAKIKMLGN
 IKFIGELGKLDLIESILHKCIKTLLEKKKRVQLKDMGEDLECLCQIMRTVGPRLDHERAKSLMDQYFAR
 MCSLMLSKELPARIRFLLQDVELREHHWVPRKAFLDNGPKTINQIRQDAVKDLGVFIPAPMAQGMRSDF
 FLEGPFMPPRMKMDRDPLGGLADMFGQMPGSGIGTGPGVIQDRFSPTMGRHRSNQLFNHGGHIMPPTQS
 QFGEMGGKFMKSQGLSQLYHNQSQGLLSQLQGQSKDMPPRFSKKGQLNADEISLRPAQSFMLMKNQVPKL
 QPQITMIPPSAQPPRTQTPPLGQTPQLGLKTNPPLIQEKPAKTNKKPPPSKEELLKLTETVVTEYLNSGN
 ANEAVNGVREMRAPKHFLEPMLSKVIIISLDRSDEDKEKASSLISLLKQEGIATSDNFMQAFNLVLDQCP
 KLEVDIPLVKSILAQFAARAIISELVSISELAQPLESGTHFPLFLLCLQLAKLQDREWLTFLFQQSKVN
 MQKMLPEIDQNKDRMLEILEGKLSFLFPLLKLEKELLKQIKLDPSPQTIYKWKDNI SPKLHVDKGFVN
 ILMTSFLQYISSEVNPPSDETDSSAPSKEQLEQEKQLLLSFKPVMQKFLHDHVDLQVSALYALQVHCYN
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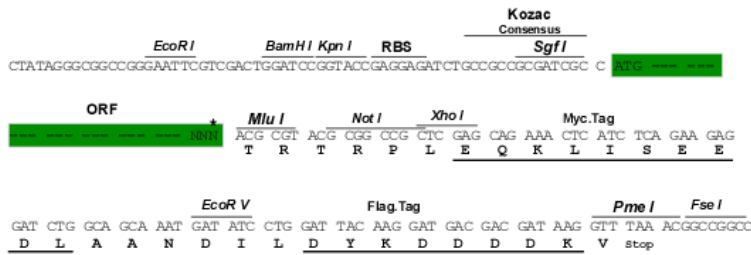
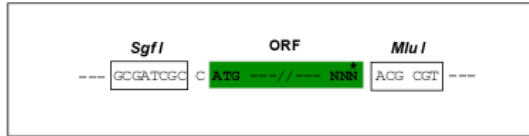
 TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6004_f11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:

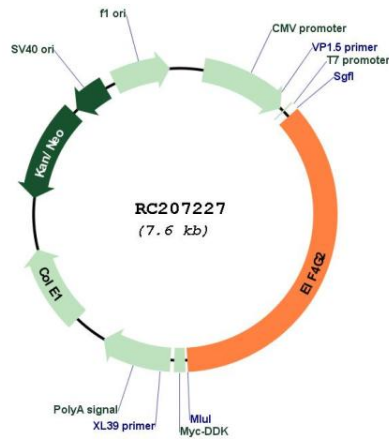


* The last codon before the Stop codon of the ORF

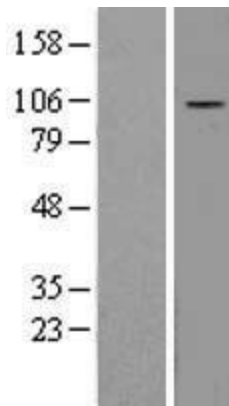
ACCN: NM_001418

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|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ORF Size: | 2721 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_001418.4 |
| RefSeq Size: | 3911 bp |
| RefSeq ORF: | 2724 bp |
| Locus ID: | 1982 |
| UniProt ID: | P78344 |
| Cytogenetics: | 11p15.4 |
| Domains: | eIF5C, MA3 |
| Protein Families: | Transcription Factors |
| Protein Pathways: | Viral myocarditis |
| MW: | 102.4 kDa |
| Gene Summary: | Translation initiation is mediated by specific recognition of the cap structure by eukaryotic translation initiation factor 4F (eIF4F), which is a cap binding protein complex that consists of three subunits: eIF4A, eIF4E and eIF4G. The protein encoded by this gene shares similarity with the C-terminal region of eIF4G that contains the binding sites for eIF4A and eIF3; eIF4G, in addition, contains a binding site for eIF4E at the N-terminus. Unlike eIF4G, which supports cap-dependent and independent translation, this gene product functions as a general repressor of translation by forming translationally inactive complexes. In vitro and in vivo studies indicate that translation of this mRNA initiates exclusively at a non-AUG (GUG) codon. Alternatively spliced transcript variants encoding different isoforms of this gene have been described. [provided by RefSeq, Jul 2008] |

Product images:



Circular map for RC207227



Western blot validation of overexpression lysate (Cat# [LY400548]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207227 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).