

Product datasheet for **SC311411**

DAP5 (EIF4G2) (NM_001042559) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: DAP5 (EIF4G2) (NM_001042559) Human Untagged Clone
Tag: Tag Free
Symbol: DAP5
Synonyms: AAG1; DAP5; NAT1; P97
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001042559 edited
CACGCCTAGCGCCAGCAGTGAGTCGGAGCTCTATGGAGGTGGCAGCGGGTACCGAGTGG
CGGCTGCAGCAGCGACTCCTCTGAGCTGAGTTTGAGGCCGTCCCGACTCCTTCCTCCCC
CTTCCCTCCCCCTTTTTTTGTTTTCCGTTCCCTTTCCCTCCCTTCCCTATCCCCGAC
GACCGGATCCTGAGGAGGAGCTGCGGTGGCAGCTGCTGAGTTCTCGGTGAAGGTATTTCT
ATTTCTCTGTCCCTCCCTCCCCACCCATCTATTAATATTATTCTTTGAAGATTCT
TCGTTGTCAAGCCGCCAAAGTGGAGAGTGCATTGCAGAAGGGGGTCTTCTCGTTTCAG
TGCTTCTTCGGGCGGAGGAGGAAGTAGGGTGCACCTCAGCACTATCCCAAGACTGCTGG
CAACAGCGAGTTCTGGGAAAACCCAGGGCAAACGCTCAGAAATGGATTCTGCACG
AAGCACTAGACGAGATGACAACCTCCGACGAAACAACCTCCGAAACGAAAAAGAACGACA
TGATGCAATCTTCAGGAAAGTAAGAGGCATACTAAATAAGCTTACTCCTGAAAAGTTTGA
CAAGCTATGCCTTGAGCTCCTCAATGTGGGTGTAGAGTCTAAACTCATCCTTAAAGGGGT
CATACTGCTGATTGTGGCAAAGCCCTAGAAGAGCCAAAGTATAGCTCACTGTATGCTCA
GCTATGTCTGCGATTGGCAGAAGATGCACCAAACCTTTGATGGCCAGCAGCAGAGGGTCA
ACCAGGACAGAAGCAAAGCACCACATTCAGACGCCTCCTAATTTCCAAATTACAAGATGA
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CGAGGAGGAGGAACAGAGAGCCATTGCTAAGATCAAGATGTTGGGAAACATCAAATTCAT
TGGAGAGCTTGGCAAGCTTGATCTTATTCACGAATCTATCCTTCATAAGTGCATCAAAC
ACTTTTGGAAAAGAAGAAGAGAGTCCAACCTCAAAGATATGGGAGAGGATTGGAGTGCCT
CTGTGAGATAATGAGGACAGTGGGACCTAGATTAGACCATGAACGAGCCAAGTCCTTAAT
GGATCAGTACTTTGCCCAATGTGCTCCTTGATGTTAAGTAAGGAATTGCCAGCAAGGAT
TCGTTTCTGCTGCAGGATACCGTAGAGTTGCGAGAACCATTGGGTTCTCGCAAGGC
TTTTCTTGACAATGGACCAAAGACGATCAATCAAATTCGTCAAGATGCAGTAAAAGATCT
AGGGGTGTTTATCCTGCTCCTATGGCTCAAGGGATGAGAAGTGACTTCTTTCTGGAGGG
ACCGTTCATGCCACCCAGGATGAAAATGGATAGGGACCCACTGGAGGACTTGCTGATAT
GTTTGGACAAATGCCAGGTAGCGGAATTGGTACTGGTCCAGGAGTTATCCAGGATAGATT
TTCACCCACCATGGGACGTCATCGTTCAAATCAACTCTTCAATGGCCATGGGGGACACAT



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CATGCCTCCCACACAATCGCAGTTTGGAGAGATGGGAGGCAAGTTTATGAAAAGCCAGAT
 TAGCCTGAGGCCTGCTCAGTCGTTCTAATGAATAAAAAATCAAGTGCCAAAGCTTCAGCC
 CCAGATAACTATGATTCCTCCTAGTGCACAACCACCACGCACTCAAACACCACCTCTGGG
 ACAGACACCTCAGCTTGGTCTCAAACTAATCCACCCTATCCAGGAAAAAGCCTGCCAA
 GACCAGCAAAAAGCCACCACCGTCAAAGGAAGAACTCCTAACTAACTGAACTGTTGT
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 GGCTCCTAAACACTTTCTCCTGAGATGTTAAGCAAAGTAACTCATCCTGTCACTAGATAG
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 GGAGGTTGACATCCCTTGGTGAATCCTATTTAGCACAGTTTGCAGCTCGTGCCATCAT
 TTCAGAGCTGGTGAAGCTTTAGAACTAGCTCAACCACTAGAAAGTGGCACCCATTTTCC
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 AATGACTAGCTTCTACAGTACATTTCTAGTGAAGTAAACCCCCCAGCGATGAAACAGA
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 CAAGCCAGTAATGCAGAAATTTCTTATGATCAGTGTGATCTACAAGTCAAGTGCCTGTGA
 TGCTCTCCAGGTGCACTGCTATAACAGCAACTTCCCAAAGGCATGTTACTTCGCTTTTT
 TGTGCACTTCTATGACATGGAATTTATTGAAGAAGAAGCTTTCTTGGCTTGGAAAGAAGA
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 CTGGTTAGAACTGCTGAAGAAGAAGAATCAGAGGAAGAAGCTGACTAAGAACCAGCCA
 AAGCCTTAAATTGTGCAAAACATACTGTTGCTATGATGTAAGTGCATTTGACCTAACCA
 TGCGAAAATTCATTCCGCTGTAATGTTTTCACAATATTTAAAGCAGAAGCACGTCAGTTA
 GGATTTCTTCTGCATAAGGTTTTTTTTGTAGTGAATGTCTTAATCATAGTCTACCATCA
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 CATAAGTTCTCAAGCAGAGGCAGTCTATTGCAAGGACCTTCTTTGCTGCCAGTTATCATA
 GGCTGTTTTAAGTTAGAAAAGTGAATAGCAACTGAATACTGTAGAAATGCACTTTGCT
 CAGTAATACTTGAGTTGTTGCAATATTTGATTATCCATTTGGTTGTACAGAAAAATTTCT
 TAACTGTAATTGATGGTTGTTGCCGTAATAGTATATTGCCTGTATTTCTACCTCTAGTAA
 TGGGCTTTATGTCTAGATTTTAAATATCCTTGAGCCTGGGCAAGTGCACAAGTCTTTTTA
 AAAGAAACATGGTTTACTTGCACAAAAGTATCAGTTTTGAGAGATCGTTAATGCCCTTG
 AAGTGGTTTTTGTGGGTGTGAAACAAATGGTGAGAATTTGAATGGTCCCTCCTATTATA
 GTATTGAAATTAAGTCTACTTAATTTATCAAGTCATGTTTCATGCCCTGATTTTATATACT
 TGTATCTATCAATAAACATTTGTGATACTTGATGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_001042559
- Insert Size:** 3800 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001042559.1.

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:	<u>NM_001042559.1, NP_001036024.1</u>
RefSeq Size:	3694 bp
RefSeq ORF:	2610 bp
Locus ID:	1982
UniProt ID:	<u>P78344</u>
Cytogenetics:	11p15.4
Protein Families:	Transcription Factors
Protein Pathways:	Viral myocarditis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in a shorter isoform (2), compared to isoform 1.</p>