

Product datasheet for **SC119270**

DAP5 (EIF4G2) (NM_001418) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAP5 (EIF4G2) (NM_001418) Human Untagged Clone
Tag:	Tag Free
Symbol:	EIF4G2
Synonyms:	AAG1; DAP5; NAT1; P97
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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Fully Sequenced ORF: >OriGene ORF within SC119270 sequence for NM_001418 edited (data generated by NextGen Sequencing)

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GTGGAGAGTGCATTGCAGAAGGGGGTCTTCTCGTTTCAGTGCTTCTTCGGGCGGAGGA
GGAAGTAGGGGTGCACCTCAGCACTATCCCAAGACTGCTGGCAACAGCGAGTTCTTGGGG
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Clone variation with respect to NM_001418.3
370 g=>n;371 a=>n;989 c=>n;990 a=>n;991 g=>n;1572 g=>a

5' Read Nucleotide Sequence: >OriGene 5' read for NM_001418 unedited
AATTTGTATACGACTTACTATAGGGCGGCCGGAATTCGGCACGAGGCACGCCTTAGCGC
CAGCAGTGAGTCGGAGCTCTATGGAGGTGGCAGCGGTACCGAGTGGCGGCTGCAGCAGC
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GGAGGCAGCTGCGGTGGCAGCTGCTGAGTTCTCGGTGAAGTATTTTCATTTCTCCTGTCC
CCTCCCTCCCGACCCCATCTATTAATATTATTCTTTTGAAGATTCTTCGTTGTCAAGCC
GCCAAAGTGGAGAGTGCATTGCGAGAAGGGGTGCTTCTCGTTTTAGTGCTTCTTCGGGC
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TTGGCAGAGATGCACAAACTTTGATGCCAGCAGCAGAGGGTACCAGNACAGAAGCAA
GCCCACTTCAGACGCTNCTAATTCC

3' Read Nucleotide Sequence: >OriGene 3' read for NM_001418 unedited
NNNAAAAAATTAACCTGAACCGCCGCATACTANGATCGATNNTTTTTTTTTTTTTTTTT
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GGAGGGACCAATTCAAATCTCACCATTTGTTTACACCCACAAAACCCTTCAAGGGC
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ACTTGTGCACTTGCCAGGCTCAAGTATATTAATCTACCACATAAAGCCCACTACTAGA
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ACAACAAATGGATAATCAAATTTTGAACAACCTCAGTTTTACTGACCAAAGGGCTTTTC
TACAGTATTCAGGGTTGCTATTAAGTTTTCTAACTAAAAACACCTTATAAACTGGCAAC
AAAAAGGGCCCTTGAATAAACTGCCTTTGCTTGAACTTATGAAGAAATTTTGGCGGCT
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AAGTTTTACACGGTTTTCCCTTTTTCCCTGAAAAAACTTGTCTTTTCCGAGAATTTTG
GGTAATTTTTTTCAAACCAAAGCTTTTTTAAAATTCGCGCAAAAAGGCCAAAAAAA
AATCACTCCTTTTGAATTTT

Restriction Sites: NotI-NotI

ACCN: NM_001418

Insert Size: 3860 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).

RefSeq: [NM_001418.1](#), [NP_001409.1](#)

RefSeq Size: 3820 bp

RefSeq ORF: 2724 bp

Locus ID: 1982

UniProt ID:	P78344
Domains:	eIF5C, MA3
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 (1) encodes the longer isoform (1). Both variants 1 and 3 encode the same isoform.</p>