

Product datasheet for **RG212382**

DAP5 (EIF4G2) (NM_001042559) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DAP5 (EIF4G2) (NM_001042559) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DAP5
Synonyms:	AAG1; DAP5; NAT1; P97
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212382 representing NM_001042559
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

GTGGAGAGTGCATTGCAGAAGGGGTGCTTCTCGTTTCAGTGCTTCTTCGGGCGGAGGAGGAAGTAGGG
 GTGCACCTCAGCACTATCCCAAGACTGCTGGCAACAGCGAGTTCCTGGGAAAACCCAGGGCAAACGC
 TCAGAAATGGATTCTGCACGAAGCACTAGACGAGATGACAACCTCCGACGAAACAACCTCCGAAACGAA
 AAAGAACGACATGATGCAATCTTCAGGAAAGTAAGAGGCATACTAAATAAGCTTACTCTGAAAAGTTTG
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 GATTGTGGACAAAGCCCTAGAAGAGCCAAAGTATAGTCACTGTATGCTCAGCTATGCTGCGATTGGCA
 GAAGATGCACAAACTTTGATGGCCAGCAGAGGGTCAACCAGGACAGAAGCAAAGCACCACATTCA
 GACGCTCCTAATTTCCAAATTACAAGATGAATTTGAAAACCGAACTAGAAATGTTGATGTCTATGATAA
 GCGTGAATAATCCCTCCTCCCGAGGAGGAGAACAGAGAGCCATTGCTAAGATCAAGATGTTGGGAAAC
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 CACTTTTGGAAAAGAAGAGAGTCCAACCTCAAAGATATGGGAGAGGATTTGGAGTGCCTCTGTAGAT
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 TTTCTGGAGGGACCGTTCATGCCACCCAGGATGAAAATGGATAGGGACCCACTTGGAGGACTTTCGATA
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 CAGTTTGGAGAGATGGGAGGCAAGTTTATGAAAAGCCAGATTAGCCTGAGGCCTGCTCAGTCGTTCTTAA
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 AAGCCTGCCAAGACCAGCAAAAAGCCACCACCGTCAAAGGAAGAACTCCTTAACTAACTGAACTGTTG
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 AACTTTCTTCTGAGATGTTAAGCAAAGTAATCATCCTGTCACTAGATAGAAGCGATGAAGATAAAGAA
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 CCCCCCAGCGATGAAACAGATTCATCCTGCTCCTTCCAAAGAACAGTTAGAGCAGGAAAAACAATA
 CTACTATCTTTCAAGCCAGTAATGCAGAAAATTTCTTATGATCACGTTGATCTACAAGTCAGTGCCCTGT
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 CTATGACATGAAATATTGAAGAAGAAGCTTTCTTGGCTTGGAAAGAAGATATAACCCAAGAGTTTCCG
 GGAAAAGGCAAGGCTTTGTTCCAGGTGAATCAGTGGCTAACCTGGTTAGAAAAGTCTGAAGAAGAAGAAAT
 CAGAGGAAGAAGCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212382 representing NM_001042559
 Red=Cloning site Green=Tags(s)

VESAI AEGGASRF SASSGGGSRGAPQHYPKTAGNSEFLGKTPGQNAQKWIPARSTRRDDNSAANNSANE
 KERHDAIFRKVRGILNKLTPKFDKLCLELLNVGVESKILKGVILLIVDKALEEPKYSSLYAQLCLRLA
 EDAPNFDGPA AEGQPQKQSTTFRRLIISKLQDEFENRTRNVVYDKRENPLLP EEEEEQRAIAKIKMLGN
 IKFIGELGKLDL I HESILHKCIKTLLEK KKRVLKDMGEDLECLCQIMRTVGPRLDHERAKSLMDQYFAR
 MCSLMLSKELPARIRFLLQDVELREHHWVPRKAFLDNGPKTINQIRQDAVKDLGVFIPAPMAQGMRSDF
 FLEGPFPMPRMKMDRDLGGLADMFGQMPGSGIGTGPGVIQDRFSPTMGRHRSNQLFNHGHHIMPPTQS
 QFGEMGGKFMKSQISLRPAQSFLMNKNQVPKLQPQITMIPPSAQPPRTQTPPLGQTPQLGLKTNPPLIQE
 KPAKTSKKPPPSKEELLKLTETVVTEYLN SGNANEAVNGVREMRAPKHFLEMLSKVIIISLDRSDEDKE
 KASSLISLLKQEGIATSDNFMQAFNLVLDQCPKLEVDIPLVKSILAQAARAIISELVSISELAQPLESG
 THFPLFLLCLQLAKLQDREWL TELFQQSKVNMQKMLPEIDQNKDRMLEILEGKLSFLFPLLKLEKELL
 KQIKLDPSPQTIYKWIKNISP KLVHVDKGFVNILMTSFLQYISSEVNPPSDETDSSAPSKEQLEQEKQL
 LLSFKPVMQKFLHDHVDLQVSALYALQVHCYNSNFPKGMLLRFFVHFYDMEIIEEEAFLAWKEDITQEPF
 GK GKALFQV NQWLTWLET AEEEESEEEAD

TRTRPLE - GFP Tag - V

Restriction Sites:

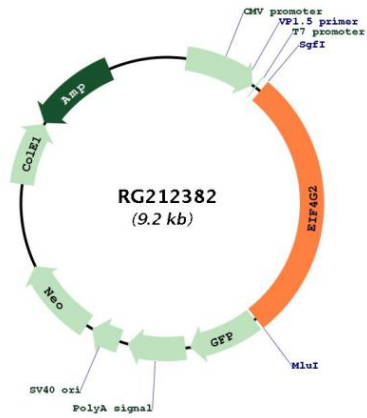
SgfI-MluI

Cloning Scheme:



ACCN:	NM_001042559
ORF Size:	2607 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_001042559.2 , NP_001036024.3
RefSeq Size:	3797 bp
RefSeq ORF:	2610 bp
Locus ID:	1982
UniProt ID:	P78344
Cytogenetics:	11p15.4
Protein Families:	Transcription Factors
Protein Pathways:	Viral myocarditis
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 RG212382