

## Product datasheet for **RC226279**

### **PAG3 (ASAP2) (NM\_001135191) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PAG3 (ASAP2) (NM_001135191) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PAG3
Synonyms:	AMAP2; CENTB3; DDEF2; PAG3; PAP; Pap-alpha; SHAG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC226279 representing NM\_001135191  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGCCGGACCAGATCTCCGTGTCCGAATTCGTGGCCGAGACCCATGAGGACTACAAGCGCCACCGCCT  
 CCAGCTTCACCACCCGCACGGCGCAGTCCGGAACACTGTGGCGCCATCGAGGAGGCTTTGGACGTGGA  
 CCGGATGGTTCTTTACAAAATGAAGAAATCCGTGAAAGCAATCAACAGCTCTGGGCTGGCTCACGTGGAA  
 AATGAAGAGCAGTACACCCAGGCTCTGGAGAAGTTTGGCGGCAACCGTGTATGCAGAGATGACCCAGATT  
 TAGGAAGTGCCTTCTGAAGTTCTCAGTGTTCACAAAGGAGTTGACAGCACTTTTCAAAAACCTGATTCA  
 GAATATGAACAACATAATCTCCTTCCCTTTGGACAGTTTGTGAAGGGGACCTGAAAGGAGTGAAAGGG  
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 AGTTTCAGAACAGTGGAACTGGATAAACAGACAGGAAAAGGCAGCACAGCCCTGCACTACTGCTGCCTG  
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 GGACAAGCAGAGGGCTTTCATGCCAGCATCTTGCAAGATGAGACTTACGGAGCCCTCTGAGTGGCAGC  
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 CGCCTCCCGCAGAAGAAGCCTGCGCCGGGGCTGACAAGTCCACCCCACTGACCAACAAAGGCCAACCGA  
 GAGGACCTGTGGATCTCTGCAACGGAAGCTCTGGTCTCTGTCCAATGCTATGGTCTGCAGCCCC  
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 GTGGCTGACAACCCGATGAGCTCACCTTCTCCGAGGGGATGTGATCATCGTGGACGGGAGGAGGACC  
 AGGAGTGGTGGATTGGCCACATTGATGGAGATCCTGGTCGAAAGCGCATTCCCGGTGTCATTTGTGCA  
 CTTTATCGCTGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC226279 representing NM\_001135191  
 Red=Cloning site Green=Tags(s)

MPDQISVSEFVAETHEDYKAPTASSFTTRTAQCRNTVAAIEEALDVDRMVLKMKKSVKAINSSGLAHVE  
 NEEQYTQALEKFGGNRVCRRDDPDLGSAFLKFSVFTKELTALFKNLIQNMNIIISFPLDSSLKGDLDKGVKG  
 DLKKPFDKAWKDYETKITKIEKEKHEHAKLHGMIRTEISGAIEAEMEERFFQLQMCEYLLKVNEIKI  
 KKGVDLLQNLIKYFHAQC�FFQDGLKAVESLKPSIETLSTDLHTIKQAQDEERRQLIQLRDILKSALQVE  
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 NIGNAGFNEIMECCLPAEDSVKPNPGSDMNA­RKDYITAKYIERRYARKKHADNAAKLHSLCEAVKTRDIF  
 GLLQAYADGVDLTEKIPLANGHEPDETAHLAVRSVDRTSLHIVDFLVQNSGNLDKQTKGKSTALHYCCL  
 TDNAECLKLLLRGKASIEIANESGETPLDIAKRLKHEHCEELLTQALSGRFNSHVHVEYEWRLLEDLDE  
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 PPPAQPAAPSTTSAPPLPPRNVGKDPLTPTPPP­VAKTPSVM­EALSQPSKPAPPGISQIRPPPLPPQPPS  
 RLPQKKPAPGADKSTPLTNKGQPRGPV­DLSATEALG­PLSNAMVLQPPAPMPRKSQATKLPKRVKALYN­C  
 VADNPDELTFSEGDVIIVDGEEDQEW­WIGHIDGDPGRKGAFFV­S­FVHFIA­D

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

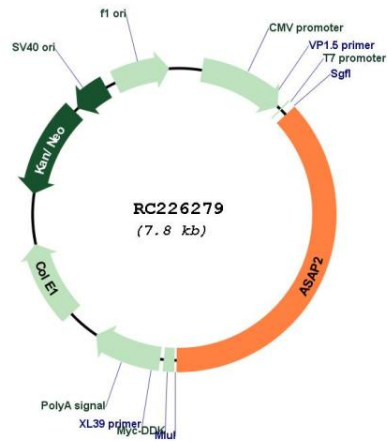


ACCN: NM\_001135191

ORF Size: 2883 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001135191.1</a> , <a href="#">NP_001128663.1</a>
<b>RefSeq ORF:</b>	2886 bp
<b>Locus ID:</b>	8853
<b>UniProt ID:</b>	<a href="#">O43150</a>
<b>Cytogenetics:</b>	2p24
<b>Protein Pathways:</b>	Endocytosis, Fc gamma R-mediated phagocytosis
<b>MW:</b>	106.8 kDa
<b>Gene Summary:</b>	<p>This gene encodes a multidomain protein containing an N-terminal alpha-helical region with a coiled-coil motif, followed by a pleckstrin homology (PH) domain, an Arf-GAP domain, an ankyrin homology region, a proline-rich region, and a C-terminal Src homology 3 (SH3) domain. The protein localizes in the Golgi apparatus and at the plasma membrane, where it colocalizes with protein tyrosine kinase 2-beta (PYK2). The encoded protein forms a stable complex with PYK2 in vivo. This interaction appears to be mediated by binding of its SH3 domain to the C-terminal proline-rich domain of PYK2. The encoded protein is tyrosine phosphorylated by activated PYK2. It has catalytic activity for class I and II ArfGAPs in vitro, and can bind the class III Arf ARF6 without immediate GAP activity. The encoded protein is believed to function as an ARF GAP that controls ARF-mediated vesicle budding when recruited to Golgi membranes. In addition, it functions as a substrate and downstream target for PYK2 and SRC, a pathway that may be involved in the regulation of vesicular transport. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008]</p>

Product images:



Circular map for RC226279