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Product datasheet for RC221783L4V

PAG3 (ASAP2) (NM_003887) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	PAG3 (ASAP2) (NM_003887) Human Tagged ORF Clone Lentiviral Particle
Symbol:	PAG3
Synonyms:	AMAP2; CENTB3; DDEF2; PAG3; PAP; Pap-alpha; SHAG1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_003887
ORF Size:	3018 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC221783).
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.
RefSeq:	NM_003887.1
RefSeq Size:	5711 bp
RefSeq ORF:	3021 bp
Locus ID:	8853
UniProt ID:	O43150
Cytogenetics:	2p24
Domains:	ArfGap, SH3, PH, ANK
Protein Pathways:	Endocytosis, Fc gamma R-mediated phagocytosis

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MW: 111.5 kDa

Gene Summary: 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]

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