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Product datasheet for RC218026L1V

GANP (MCM3AP) (NM_003906) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	GANP (MCM3AP) (NM_003906) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GANP
Synonyms:	GANP; MAP80; PNRIID; SAC3
Mammalian Cell Selection:	None
Vector:	pLenti-C-Myc-DDK (PS100064)
Tag:	Myc-DDK
ACCN:	NM_003906
ORF Size:	5949 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC218026).
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_003906.3
RefSeq Size:	6113 bp
RefSeq ORF:	5943 bp
Locus ID:	8888
UniProt ID:	O60318
Cytogenetics:	21q22.3
Domains:	SAC3_GANP
MW:	218.2 kDa

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Gene Summary: The minichromosome maintenance protein 3 (MCM3) is one of the MCM proteins essential for the initiation of DNA replication. The protein encoded by this gene is a MCM3 binding protein. It was reported to have phosphorylation-dependent DNA-primase activity, which was up-regulated in antigen immunization induced germinal center. This protein was demonstrated to be an acetyltransferase that acetylates MCM3 and plays a role in DNA replication. The mutagenesis of a nuclear localization signal of MCM3 affects the binding of this protein with MCM3, suggesting that this protein may also facilitate MCM3 nuclear localization. This gene is expressed in the brain or in neuronal tissue. An allelic variant encoding amino acid Lys at 915, instead of conserved Glu, has been identified in patients with mild intellectual disability. [provided by RefSeq, Jan 2014]