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Product datasheet for RC212473L3V

RASGRP1 (NM_005739) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	RASGRP1 (NM_005739) Human Tagged ORF Clone Lentiviral Particle
Symbol:	RASGRP1
Synonyms:	CALDAG-GEFI; CALDAG-GEFII; IMD64; RASGRP
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
Tag:	Myc-DDK
ACCN:	NM_005739
ORF Size:	2391 bp
ORF Nucleotide Sequence:	`The ORF insert of this clone is exactly the same as(RC212473).`
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_005739.2
RefSeq Size:	5048 bp
RefSeq ORF:	2394 bp
Locus ID:	10125
UniProt ID:	O95267
Cytogenetics:	15q14
Domains:	RasGEFN, RasGEF, EFh, DAG_PE-bind
Protein Pathways:	MAPK signaling pathway, T cell receptor signaling pathway

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MW: 90.4 kDa

Gene Summary: This gene is a member of a family of genes characterized by the presence of a Ras superfamily guanine nucleotide exchange factor (GEF) domain. It functions as a diacylglycerol (DAG)-regulated nucleotide exchange factor specifically activating Ras through the exchange of bound GDP for GTP. It activates the Erk/MAP kinase cascade and regulates T-cells and B-cells development, homeostasis and differentiation. Alternatively spliced transcript variants encoding different isoforms have been identified. Altered expression of the different isoforms of this protein may be a cause of susceptibility to systemic lupus erythematosus (SLE). [provided by RefSeq, Jul 2008]