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Product datasheet for RC218380L4V

SPDYA (NM_001008779) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Symbol:	SPDYA
Synonyms:	RINGO3; RINGOA; SPDY1; SPY1
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_001008779
ORF Size:	858 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC218380).
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_001008779.1, NP_001008779.1
RefSeq Size:	1209 bp
RefSeq ORF:	861 bp
Locus ID:	245711
UniProt ID:	Q5MJ70
Cytogenetics:	2p23.2

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Protein Pathways:	Oocyte meiosis, Progesterone-mediated oocyte maturation
MW:	33.1 kDa
Gene Summary:	Regulates the G1/S phase transition of the cell cycle by binding and activating CDK1 and CDK2 (PubMed:12972555). Contributes to CDK2 activation without promoting CDK2 phosphorylation, by inducing a conformation change of the CDK2 T-loop that obstructs the substrate-binding cleft prior to kinase activation (PubMed:28666995). Mediates cell survival during the DNA damage process through activation of CDK2 (PubMed:12839962).[UniProtKB/Swiss-Prot Function]

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