

## Product datasheet for **SC307504**

### SPDYA (NM\_182756) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SPDYA (NM_182756) Human Untagged Clone
Tag:	Tag Free
Symbol:	SPDYA
Synonyms:	RINGO3; RINGOA; SPDY1; SPY1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307504 representing NM_182756. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGAGGCACAATCAGATGTGTTGTGAGACACCCTACTGTCACTGTTTATGTAAATCAGGGTCAAAT
AGATCACATCAGCCTAAAAAGCCATTACTCTGAAGCGTCCTATTTGTAAGATAAATGGCAAGCATT
GAAAAAATACACATAATAACAACAAATCTAACGCCCAAGGACCTTGCTGTTATACAGCGTCAG
GATATGACTGCTTTCTTTAAATTATTTGATGACGATTTAATTCAAGATTTCTTGTGGATGGACTGCTGC
TGTAATAATGCAGACAAGTATCTTTGGCTATGACCTTTGTTTATTTCAAGAGGGCTAAATTTACTATA
AGTGAGCATACCAGGATAAATTTCTTTATTGCTCTGTATCTGGCTAATACAGTTGAAGAAGATGAAGAA
GAAACCAAGTACGAAATTTTCCATGGGCTTTAGGGAAAACTGGAGAAAATTGTTCCCTAATTTCTTA
AAGTTAAGGGACCAGCTCTGGGATAGAATTGACTATAGGGCTATTGTAAGCAGGCGATGTTGTGAGGAG
GTTATGGCCATTGCACCAACCCATTATATCTGGCAAAGAGAACGTTCTGTTTCATCACAGTGGAGCTGTC
AGAAACTACAACAGAGATGAAGTTCAGCTGCCCGGGACCTAGTGCCACACCAGTAGATTGTTCACTC
TGTGGTAAAAAAGAAGATATGTTAGACTGGGATTGTCTTCATCATCATCTTTATCCAGTCATACAGCA
GGGGTGACAGAAAAACATTCTCAGGACTCATACAACTCACTGTCAATGGACATAAATAGGTGATCCTTCT
CAAGCTTATACTGGTTCTGAAGTAGTCAATGACCATCAATCAAATAAAGGAAAGAAAATAATTTCTTG
AAGAAAGACAAAATCTATGGAGTGGTTTACAGGAAGTGAAGAATGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCCGGC
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Restriction Sites:	Sgfl-MluI
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_182756



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<b>Insert Size:</b>	942 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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_182756.3</a>
<b>RefSeq Size:</b>	1830 bp
<b>RefSeq ORF:</b>	942 bp
<b>Locus ID:</b>	245711
<b>UniProt ID:</b>	<a href="#">Q5MJ70</a>
<b>Cytogenetics:</b>	2p23.2
<b>Protein Pathways:</b>	Oocyte meiosis, Progesterone-mediated oocyte maturation
<b>MW:</b>	36.5 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) lacks a segment in the 5' UTR, compared to variant 3. Variants 1 and 3 both encode the longer protein (isoform 1).</p>