

## Product datasheet for **RG223498**

### Speedy protein C (SPDYC) (NM\_001008778) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Speedy protein C (SPDYC) (NM_001008778) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPDYC
Synonyms:	Ringo2; RINGOC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223498 representing NM_001008778 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTCTGGGCCATTCCTGAGCTCGGGTACCCTGCCCATCTCCATCTCCTATGAGATGAGTGA  
AAGACCCACCACTTCCCCTGTAGTTACCACCCAGGTAGAGCTGGGGGGCTGCAGCCGCAAGGTGGGG  
CAATGGGTTCTCCGTTTCGCCAGCACCAGGAGGTCCAGGCCTTCCTCAGCCTTCTGGAGGACAGTTT  
GTCCAGGAATTCCTCTCAAAGACCCCTGCTTCCAGATTCAGATAAGTATCTCCTGGCCATGGTGTGG  
TCTACTCCAGCGCGCCACCTGAAGCTCAGCGAGTATACCCACAGCAGCCTGTTCTTGGCCCTGTACCT  
TGCAAACGACATGGAGGAGGACCTGGAGGGCCCCAAATGTGAGATTTTTCCATGGGCCCTGGGAAAAGAT  
TGGTGTTCAGAGTGGGAAATTCCTGCACCAGAGGGATAAGCTTTGGGCACGGATGGGTTTCCGGGCTG  
TTGTGAGCCGCCAGTGTGTGAGGAGGTGATGGCAAAGGAGCCATTCCACTGGGCTTGGACTCGGGACCG  
GCGCCCCACCATGGTGGGGTTCAGAGGGTCTGTCCACAGGTCCCTGTTCCGCTTCCCCGGGGCCCTGGC  
CTCTCGCCGCCCACTGTTCCCCTGTGGTTTGGCCCAGCACTGCAGCAGCCACTTGCTTAAGCCTGTGT  
CATCCAAGTGCCCTTCTCTGACCTCTGAATGTCATCGCCCTCCCTCCAAAATTAATCTCTCAAGGGTCAA  
AAACGCTGGGGTGGGACTTTCTCATCGTCTTGCCTCCCCAGATGCAACTGGAACCAGGCACCTACTCC  
CTCCGCATCTTCCAAAGCCTCCGGCACGCCCTGGGCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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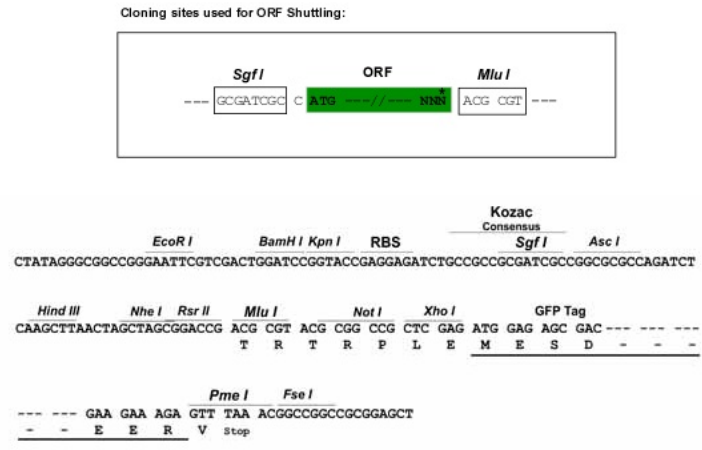
Protein Sequence: >RG223498 representing NM\_001008778  
 Red=Cloning site Green=Tags(s)

MLWAIPELGSPCPISISYEMSDSQDPTTSPVVTTQVELGGCSRQGGNGFLRFRQHQEVQAFLLLEDSF  
 VQEFLLSKDPCFQISDKYLLAMLVYFQRAHLKLESEYTHSSLFLALYLANDMEEDLEGPKCEIFPWALGKD  
 WCLRVGKFLHQDKLWARMGFRAVVSQRQCEEVMAKEPFHAWTRDRRPHHGGVQRVCPQVPVRLPRGPG  
 LSPPHCSPCGLPQHCSHLLKPVSSKCPSLTSECHRPPSQNYLSRVKNAWGGDFLIVLPPQMQLPEPGTYS  
 LRIFPKPPARPGH

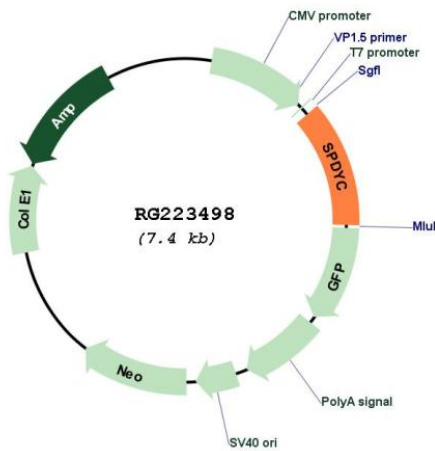
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001008778

ORF Size: 879 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_001008778.2</a>
<b>RefSeq Size:</b>	882 bp
<b>RefSeq ORF:</b>	882 bp
<b>Locus ID:</b>	387778
<b>UniProt ID:</b>	<a href="#">Q5MJ68</a>
<b>Cytogenetics:</b>	11q13.1
<b>Protein Pathways:</b>	Oocyte meiosis, Progesterone-mediated oocyte maturation
<b>Gene Summary:</b>	Promotes progression through the cell cycle via binding and activation of CDK1 and CDK2. Involved in the spindle-assembly checkpoint. Required for recruitment of MAD2L1, BUBR1 and BUB1 to kinetochores. Required for the correct localization of the active form of Aurora B in prometaphase.[UniProtKB/Swiss-Prot Function]