

Product datasheet for **RG228322**

SPDYE6 (NM_001146210) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	SPDYE6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG228322 ORF sequence, **codon optimized**.
 Due to the complexity of NM_001146210, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGATCGAACCAGAAACCGGTTTCGCAAACGCGGCAGATCACAGGGAAGATAACCACGAGTCGCCAGC
 CCCACCCCCAGAATGAACAGAGCCCGCAGCGGTCTACCAGCGGCTACCCTCTCCAGGAGGTGTTGACGA
 CGAGATGCTGGGCCGAGTGCCCTGGAGTTGATCCAAGTCCCCCTGTCGAGCCTCGGGTGAAAAGG
 AAGAGGGAATGGAGCGATGAAAGTGAGGAGGAGCCTGAAAAGGAGCTGGCACCGAGCCAGAGGAGACAT
 GGGTGGTTGAAATGCTGTGTGGGCTGAAAGTGAAGTGAACAGCAGAGGGTGTCAATCCTTCCAGA
 GCACCAAAAGACTTCAATAGTCAGCTCGCTCCGGGGTTCGATCCAGCCCTCCTCATCGCTCATTCTGC
 TGGAACCGGAAGATGGAGTGGTGGGATGAATCAGAGGAATCCCTGGAGGAGGAACCGGAAGGTGCTTG
 CCCCTGAACCTGAGGAGATATGGTTCGCTGAAATGCTCTCGGTCTTAAGATGAAATGAAGCGCGAAG
 GGTGAGCCTGGTGTCTCCGGAACACCGAAGCTTCAACCGGCTCCTTGAGGATCCTGTTATTAAGCGG
 TTTCTGGCCTGGGATAAAGACCTCCGGGTGAGCGACAAGTATTTGCTGGCCATGGTGATCGCATACTTCT
 CCAGGGCTGGGTTCCATCTTGGCAGTACCAACGCATCCATTTCTCCTCGCACTCTACTTGCCAAACGA
 CATGGAGGAAGACGACGAAGACTCAAACAGAATATTTTTCATTTCTGTATCGGAAGAACCGAAGCCGG
 ATTCCACTGCTGAGAAAGCGCTGGTTCAGCTGGGACACTCAATGAACCCCGGGCCCGAAAAAATAGGA
 GTCGGATACCCCTGCTTAGGAAGCGCAGATTCCAGCTTTATCGGTCCACCAATCCTAGAGCTCGCAAGAA
 TCGGTCAAGGATTCCCTTGCTGCGGAAACGCAGATTTCAACTGTATCGCAGTATGAATAGCAGGGCCAGG
 AAGAACCGATCCCAGATCGTGTCTTTCAAAAACGACGGTTCCATTTCTTCTGCTCAATGAGCTGTCGAG
 CTTGGGTGAGCCCAAGAAGAGCTGGAGGAGATCCAGGCCTACGACCCTGAGCATTGGGTGTGGGCTAGGGA
 CAGGGCGCACCTGTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228322 representing NM_001146210
 Red=Cloning site Green=Tags(s)

MDRTETFRKRQITGKITTSRQHPQNEQSPQRSTSGYPLQEVVDEMLGPSAPGVDPSPPCRSLGWKR
 KREWSDESEEEPEKELAPEPEETWVVEMLCGLKMKLKQQRVSSILPEHHKDFNSQLAPGVDPSPPHRSFC
 WKRMWDESEESLEEPRKVLAPEPEEIWVAEMLCGLKMKLKRRLVSLVPEHHEAFNRLLEDVPIKR
 FLAWDKDLRVSDKYLLAMVIAYFSRAGFSPWQYQRIHFFLALYLANDMEEDDESKQNIHFHLYRKNRSR
 IPLLRKRFQLGHSNPRARKNRSRIPLLRKRRFQLYRSTNPRARKNRSRIPLLRKRRFQLYRSMNSRAR
 KNRSQIVLFQKRRFHFFCSMSCRAWVSPEELEEIQAYDPEHWWWARDRAHLS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001146210

ORF Size: 1206 bp

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.

Components: 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

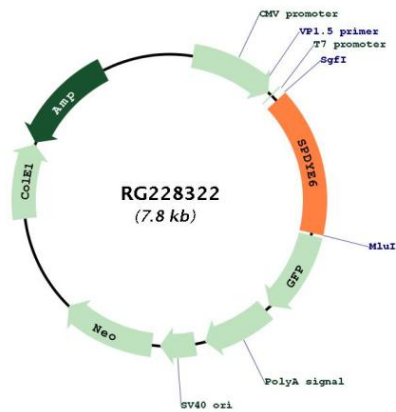
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001146210.1](#), [NP_001139682.1](#)

RefSeq Size: 3166 bp
 RefSeq ORF: 1209 bp
 Locus ID: 729597
 UniProt ID: [P0C101](#)
 Cytogenetics: 7q22.1

Gene Summary: This gene encodes a cell cycle regulatory protein which plays an important role in cell cycle progression by binding and activating cyclin-dependent kinases. The encoded protein belongs to a family of cyclin-dependent kinase regulators that contain a speedy box domain which is required for cyclin-dependent kinase activation. [provided by RefSeq, Jul 2017]

Product images:



Circular map for RG228322