

Product datasheet for **RG208467**

SPDYE3 (NM_001004351) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SPDYE3 (NM_001004351) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SPDYE3
Synonyms:	SPDYB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208467 ORF sequence, **codon optimized**.
Due to the complexity of NM_001004351, 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)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGACAAGCCATCAACCCCAACCTCAAGAGGAGCAATCACCACAGCGCTCCACCTCTGGGTACCCCTCC
 AGGAAGTCGTGGACGATGAAGTGTGAGGTCCCAGCGCGCCGGGCTGGACCCTTCCCTCCGCGCAGGTC
 ACTTGGCTGCAAGAGGAAAAGAGAGTGTCTGGACGAATCCGATGACGAGCCCGAGAAAAGAACTCGCCCT
 GAACCCGAAGAGACTTGGGTGGCCGAGACTGTGCGGACTTAAGATGAAAGCCAAGCGCAGGAGGTTA
 GCCTGGTGTGGCGGAGTACTACGAAGCCTTAAACAGGCTGCTCGCCCCGGAGTTGATCCATCCCACC
 CCGCCGGTCCCTGGGCTGTAAAAGAAAGCGGAATGCCTGGATGAGTCTGATGACGAACCAGAGAAAAGAG
 CTGGCACCTGAGCCAGAGGAGACTTGGGTAGCCGAGACTGTGTGGACTCAAGATGAAAGCAAAAAGAA
 GGAGGGTGGAGCTGGTGTGCCAGAATATTATGAGGCCTTAAATAGGCTGCTCGCACCTGGGGTGCACCC
 AAGCCCTCACGGCGAAGCCTTGGTTGTAAACGGAAACGGGAGTGCCTGGATGAATCAGACGATGAGCCC
 GAAAAAGAGCTCGCTCCAGAACCTGAAGAAACCTGGGTAGCCGAGACGCTCTGTGGCCTCAAGATGAAGG
 CCAAACGGAGGCGAGTCAAGCCTTGTCTCCAGAGTATTATGAGGCGTTAAACAGGCTTTCGCCCAGG
 GGTGGACCCAAGTCTCCTAGACGATCCCTCGGGTGTAAACGAAAGCGGAGTGTCTGGAGAAAAGTGAC
 GACGAGCCTGAGAAGGAACCTGCCCGAGGCCGAAGAAACATGGGTGGCGGAAACACTTTGTGGGCTGA
 AAATGAAGGCCAAGCGAAGACGGTTAGCTTGGTGTCCCGGAGTATTATGAGGCATTTAATCGCCTCTT
 GGCCCCGGGCGTTGACCCAAGTCCACCACGAGATCACTCGGATGTAAGCGCAAGAGGGAATGCCTGGAT
 GAGTCAGACGACGAACCAGAAAAGAGTTGGCCCCGAGCCAGAGGAGACTTGGGTGGCAGAGACTGT
 GTGGGCTGAAGATGAAGGCCAACGAAGGCGAGTGTCTGTGTGTGCCTGAATATTACGAGGCGTTTAA
 CAGGCTGCTCGAGGATCCCGTATCAAGAGTTTTTGGCTTGGGACAAGGACCTCCGCGTGAGCGACAAG
 TACCTCTTGGCAATGGTATCGCGTACTTATGTCGCGCAGGGCTCCCTCCTGGCAATATCAACGGATCC
 ACTTTTTCTTGGCCTCTACCTGGCTAATGACATGGAAGAAGATGATGAGGCGCCAAAGCAGAAAATCTT
 TATTTTCTGTATGGCAAGACTATTACATATTCCTACTGAGGCCTAAACTGTTCCAGCTGTGCCGA
 CCCATGAATCCCAGGGCAGGAAAAACTGCAGCCAAATTGCACTGTTCCAGAAGAGGAGATTCCAATTCT
 TCTGCTCCATGCGGTGTGGGCTTGGGTGTCCCCGAGGAACTTGAGGAAATTCAGGCTTACGATCCCGA
 ACATTGGGTGTGGCAAGGGACCGGGCTCACCTCTCA

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208467 representing NM_001004351
 Red=Cloning site Green=Tags(s)

MTSHQPQPQEEQSPQRSTSGYPLQEVVDDEVSGPSAPGVDPSPRRSLGCKRKRECLDESDDPEKELAP
 EPEETWAETLCGLKMKAKRRRVSLVLPEYYEAFNRLLAPGVDPSPRRSLGCKRKRECLDESDDPEKE
 LAPEPEETWAETLCGLKMKAKRRRVSLVLPEYYEAFNRLLAPGVDPSPRRSLGCKRKRECLDESDDPE
 EKELAPEPEETWAETLCGLKMKAKRRRVSLVLPEYYEAFNRLLAPGVDPSPRRSLGCKRKRECLDES
 DEPEKELAPEPEETWAETLCGLKMKAKRRRVSLVLPEYYEAFNRLLAPGVDPSPRRSLGCKRKRECLD
 ESDDEPEKELAPEPEETWAETLCGLKMKAKRRRVSLVLPEYYEAFNRLLAPGVDPSPRRSLGCKRKRECLD
 YLLAMVIAFYFRAGLPSWYQRIHFLLALYLANDMEEDDEAPKQKIFYFLYKTHSHIPLRPKHWFLQCR
 PMNPRARKNCSQIALFQKRRFQFFCSMRCRAWVSPEELEEIQAYDPEHWWWARDRAHLS

TRTRPLE – GFP Tag – V

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001004351

ORF Size: 1647 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.

RefSeq: [NM_001004351.4](#), [NP_001004351.3](#)

RefSeq Size: 3206 bp

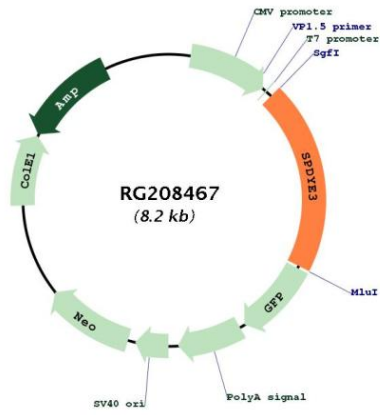
RefSeq ORF: 1650 bp

Locus ID: 441272

UniProt ID: [A6NKU9](#)

Cytogenetics: 7q22.1

Product images:



Circular map for RG208467