

Product datasheet for **RG219213**

SP6 (NM_199262) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP6 (NM_199262) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SP6
Synonyms:	EPFN; EPIPROFIN; KLF14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219213 representing NM_199262 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTAACCGCTGTCTGCGGCTCTCTGGGCAGCCAGCACACGGAAGCGCCGACGCCTCCCCGCCGCGCC
 TCGACCTGCAGCCTCTCCAACTTACCAGGGCCACACGAGCCCTGAGGCCGGGACTACCCCTCCCCGCT
 GCAGCCTGGAGAGCTGCAGAGCCTCCGCTGGGCCCGGAGGTGGACTTCTCGCAGGGCTATGAGCTGCCA
 GGGCCTCCTCGCGGTAACCTGCGAGGACCTGAAAAGCGACAGTCCCTTGGCCCCGGGCCCTTTTCCA
 AGCTCCTGCAGCCGACATGTACACCATTATGAATCGTGGTTTCAGGCCGACTCACCCAGGCGCGGAGGA
 TGGCTCGTGGTGGGACCTTCATCCGGGCACAGCTGGATGGACCTCCCCACACTCAGGGCGCGCTGACC
 TCACCTGGCCACCCGGGGCGCTTCAGGCGGGCTTGGGGGCTACGTGCGAGACCACAGCTTTGTGCC
 CGCCACCCACCCGCATGCGCACCACTCCTTCCAGCTGCCGGAGGGCAGCATCTCTAGGGCCGCCGA
 CGGGGCTAAGGCCTTGAAGTAGCCGCCCGGAGTCTCAAGGGCTGGATTCCAGCCTGGACGGGGCGGCG
 CGTCCCAAAGGCTCCCGGCGGTGGTGCCCCGAGCTCAGGCCAGACCGTCTGTGCTGCCCAACTGTC
 TGGAGGCGGAGCGACTGGGGCTCCATGTGGGCCCGATGGGGCAAGAAGAAGCATTTGCACAATGCCA
 CATCCCGGGCTGCGGGAAGCCTACGCCAAGACGTGCACCTGAAGGCGCACCTGCGCTGGCACAGCGGC
 GACCGTCCCTTCGTGTGCAACTGGCTTCTTGCAGCAAGCGCTTACGCGCTCGGACGAGCTGCAGCGCC
 ACCTCCAGACCCACACCGGCACCAAGAAGTTCCCTGTGCACTGTGACGCGCGTCTTCATGCGCAGCGA
 CCACCTGGCCAAGCACATGAAAACCCACGAGGGCGCCAAGGAGGAGGCGGCTGGGCGGCCCTCGGAGAG
 GGCAAGGCCGGCGGCGCAGTGGAGCCCCCGGGGCAAGGCAACGCGAGGCCGAGGGCAGCGTGGCTC
 CTCCAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG219213 representing NM_199262
 Red=Cloning site Green=Tags(s)

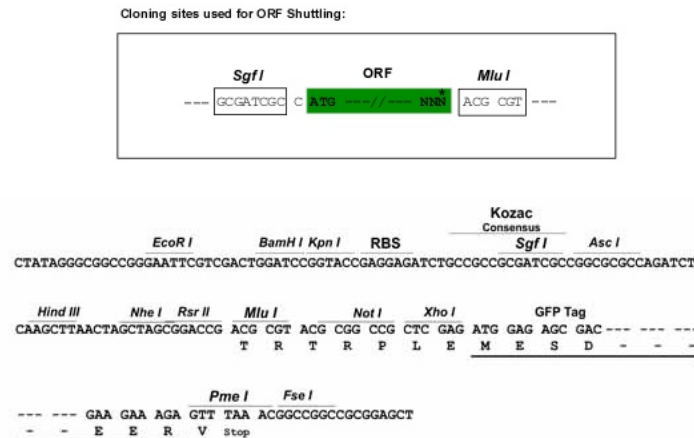
MLTAVCGSLGSQHT EAPHASPPRLDLQLQTYQGHTSPEAGDYPSPLQPGELQSLPLGPEVDFSQGYELP
 GASSRVT CEDLES DSPLAPGPF SKLLQPDMSHHYESWFRPTHGAEDGSWWDLHPGT SWMDLPHTQGALT
 SPGHPGALQAGLGGYVDHQLCAPPHPHAHLLPAAGGQHLLGPPDGAKALEVAAPESQGLDSSLDGAA
 RPKGSRRSVPRSSGQTVCRPCNLEAERLGAPCGPDGGKKKHLHNCHIPGCGKAYAKTSHLKAHLRWHSG
 DRPFVCNWLFCGKRFT RSD ELQRHLQTHGTGKKFPCA VCSRVFMRS DHLAKHMKTHEGAKEEAAGAASGE
 GKAGGAVEPPGGKGKREAGSVAPSN

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_199262

ORF Size: 1128 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_199262.3](#)

RefSeq Size: 3794 bp

RefSeq ORF: 1131 bp

Locus ID: 80320

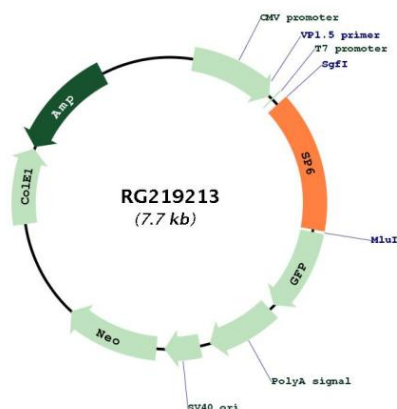
UniProt ID: [Q3SY56](#)

Cytogenetics: 17q21.32

Protein Families: Transcription Factors

Gene Summary: SP6 belongs to a family of transcription factors that contain 3 classical zinc finger DNA-binding domains consisting of a zinc atom tetrahedrally coordinated by 2 cysteines and 2 histidines (C2H2 motif). These transcription factors bind to GC-rich sequences and related GT and CACCC boxes (Schohy et al., 2000 [PubMed 11087666]).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG219213