OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RG219521

SP8 (NM_198956) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP8 (NM_198956) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SP8
Synonyms:	BTD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG219521 representing NM_198956
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTGCCGCTACCTGTAATAAGATAGGCAGCCCCAGCCCGTCTCCCTCCTCCCTCTCGGACAGCTCTT
CTTCCTTCGGCAAAGGCTTCCACCCCTGGAAACGCTCCTCGTCCTCTTCTTCCGCCAGCTGCAACGTAGT
GGGTTCCAGTCTCTCAAGCTTCGGCGTGTCCGGGGCCTCCAGGAACGGCGGCTCGTCCTCGGCGGCTGCG
GCGGCCGCGGCAGCAGCCGCGGCTGCCGCGGCCCTGGTGTCCGACTCGTTCAGCTGCGGCGGCTCGCCTG
GCTCCAGCGCCTTCTCCCTCACCTCCAGCAGCGCCGCAGCCGCCGCCGCCGCCGCCGCAGCCGCCGCCTC
CAGCTCGCCCTTCGCCAACGACTACTCTGTTTTCCAGGCCCCCGGAGTTTCCGGGGGCAGCGGCGGCGGC
GGCGGGGGCGGCGGCGGCGGCTCCTCCGCGCACTCGCAGGACGGCTCCCACCAGCCGGTGTTCATCTCCA
AGGTGCACACCTCTGTGGACGGGCTGCAGGGCATCTACCCGCGGGTGGGCATGGCGCACCCGTACGAGTC
GTGGTTTAAGCCCTCGCACCCGGGCCTGGGTGCTGCGGGCGAGGTGGGCTCGGCCGGCGCCTCCAGCTGG
TGGGACGTGGGGGCCGGCTGGATCGACGTGCAGAACCCGAACAGCGCGGCTGCGCTGCCCGGCTCGCTGC
ACCCTGCCGCCGGGGGGCTCCAAACCTCGCTGCACTCGCCGCTCGGAGGCTACAACTCGGATTACTCGGG
CCTGAGTCACTCGGCCTTCAGCAGCGGCGCCTCCTCGCACCTGCTCAGCCCCGCCGGGCAGCACCTCATG
GACGGCTTCAAGCCAGTGCTACCCGGCTCCTACCCGGACTCGGCCCCGTCGCCGCTGGCCGGCGCGGGGG
GCTCCATGTTGAGCGCTGGGCCTTCGGCGCCGCTGGGGGGCTCCCCGCGCTCCTCAGCTCGCCGCTACTC
CGGCCGCGCCACCTGCGACTGCCCCAACTGCCAGGAGGCAGAGCGGCTGGGCCCTGCCGGGGCGAGCTTG
CGGCGCAAGGGCCTGCACAGCTGCCACATCCCGGGCTGCGGCAAGGTGTACGGCAAGACTTCGCACCTCA
AGGCGCACCTGCGCTGGCACACGGGCGAGCGGCCCTTCGTGTGCAACTGGCTTTTCTGCGGCAAGCGCTT
CACGCGCTCCGACGAGCTGCAGCGGCACCTGCGGACCCACACCGGCGAGAAGCGCTTCGCCTGTCCAGTT
TGCAACAAGCGCTTCATGCGCAGCGACCACCTCAGCAAGCACGTGAAGACGCACAGTGGCGGCGGCGGCG
GCGGCGGCTCGGCGGGCTCGGGCAGCGGCGGCAAGAAGGGCAGCGACACCGACAGCGAGCACAGCGCCGC
GGGCAGCCCGCCCTGCCACTCCCCAGAGCTGCTGCAGCCCCCCGAGCCCGGGCACCGCAACGGCCTAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

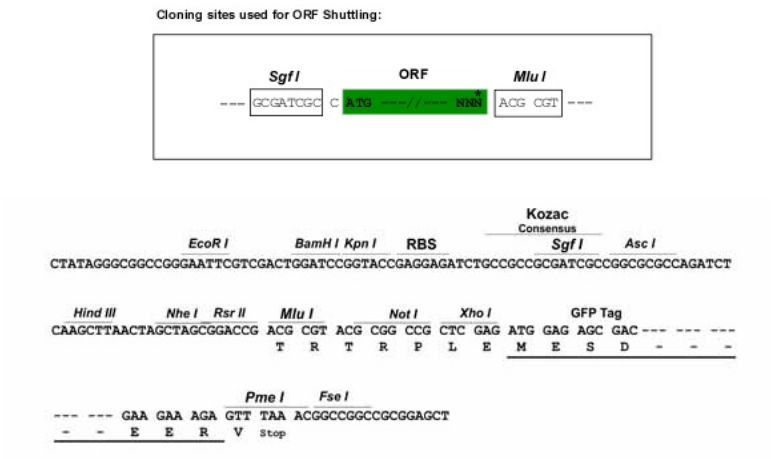
>RG219521 representing NM_198956
Red=Cloning site Green=Tags(s)

MLAATCNKIGSPSPSPSSLSDSSSSFGKGFHPWKRSSSSSSASCNVVGSSLSSFGVSGASRNGGSSSAAA
AAAAAAAAAAALVSDSFSCGGSPGSSAFSLTSSSAAAAAAAAAAAAASSSPFANDYSVFQAPGVSGGSGGG
GGGGGGGSSAHSQDGSHQPVFISKVHTSVDGLQGIYPRVGMAHPYESWFKPSHPGLGAAGEVGSAGASSW
WDVGAGWIDVQNPNSAAALPGSLHPAAGGLQTSLHSPLGGYNSDYSGLSHSAFSSGASSHLLSPAGQHLM
DGFKPVLPGSYPDSAPSPLAGAGGSMLSAGPSAPLGGSPRSSARRYSGRATCDCPNCQEAERLGPAGASL
RRKGLHSCHIPGCGKVYGKTSHLKAHLRWHTGERPFVCNWLFCGKRFTRSDELQRHLRTHTGEKRFACPV
CNKRFMRSDHLSKHVKTHSGGGGGGSAGSGSGGKKGSDTDSEHSAAGSPPCHSPELLQPPEPGHRNGLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

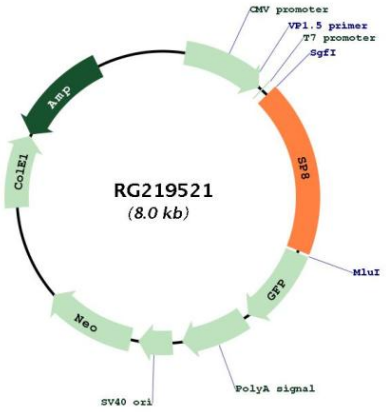


ACCN:	NM_198956
ORF Size:	1470 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_198956.4
RefSeq Size:	3738 bp
RefSeq ORF:	1473 bp
Locus ID:	221833
UniProt ID:	Q8IXZ3

Cytogenetics: 7p21.1

Gene Summary: The protein encoded by this gene is an SP family transcription factor that in mouse has been shown to be essential for proper limb development. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]

Product images:



Circular map for RG219521