

Product datasheet for **RG222663**

SP5 (NM_001003845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SP5 (NM_001003845) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG222663 representing NM_001003845 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCGGTGGCCGTCTCCGGAACGACTCGCTGCAGGCCTTCTCCAGGACCGCACCCCCAGCGCCT
CCCCGGACCTGGGCAAGCACTCGCCCTGGCATTGCTGGCCGCCACCTGTAGCCGCATCGCCAGCCGGG
CGCGGGCGGCCCGGACTTCTGCAGGTGCCCTACGACCCCGCGCTGGGCTCACCTCCAGGCTCTTC
CACCCGTGGACCGCCGACATGCCGGCGCACTCGCCAGGCGCACTGCCCGCCCGCATCCCAGCTTGGGGC
TGACGCCGAGAAGAGCGCACCTGCAGCCGTCCTTCGGGGCTGCGCACGAGCTTCCCCTTACACCCCGCC
CGACCCCTCGTACCCCTACGAGTTCTCGCCGGTCAAGATGCTGCCCTCGAGCATGGCGGCTCTGCCCGCC
AGCTGCGCGCCCGCTACGTGCCCTACGCGGCGCAGGCCGCGCTGCCGCCAGGCTACTCCAACCTGCTGC
CTCCGCGCCGCCACCGCCCGCCGCCACCTGCCGCCAGTTGTACCCAAACCGGCCCGCCGACGACCT
CCCGTGGTGGAGCATCCCGCAGGCGGGCGCCGGGCGGGGCTCCGGGGTTCCGGAAGCGGCCTCTCC
GGCGCCTGTGCCGGGCCCCACGCGCCCGCTTCCCGCCTCTGCGGCCGCTGCTGCTGCGGCCGCCG
CCGCCCTACAAAGAGGCCTGGTGTGGGCCGTCGGACTTTGCGCAGTACCAGAGCCAGATCGCCGCGCT
GCTGCAGACCAAGCCCCCTGGCGCCACGGCCAGGAGGTGCCCGCTGCCGCTGTCCAACTGCCAG
GCGGGCGGGCGGCCCGGAGGCGGAGCGGGGAAGAAGAAGCAGCACGTGTGCCACGTGCCGGGTGCG
GCAAGGTGACGGGAAGACGTGCACCTGAAGGCGCACCTGCGCTGGCACACGGGCGAGGACCCCTCGT
GTGCAACTGGCTTTCTGCGGAAGAGCTTACGCGCTCGGACGAGCTGCAGCGGCACCTGCGGACTCAC
ACGGGCGAGAAGCGCTTTGCCTGTCCCAGTGGCGAAGCGCTTCATGCGCAGCGACACCTCGCGAAGC
ACGTCAAGACTCACCAGAATAAGAAGCTCAAAGTCGCTGAGGCCGGGGTTAAGCGGGAGGACGCGCGGGA
CCTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG222663 representing NM_001003845
 Red=Cloning site Green=Tags(s)

MAAVAVLRNDSLQAFLLQDRTPSASPDLGKHSPLALLAATCSRIGQPAAAPPDFLQVPYDPALGSPSRLF
 HPWTADMPAHSPGALPPPHPSLGLTPQKTHLQPSFGAAHELPLTPPADPSYPYEFSPVKMLPSSMAALPA
 SCAPAYVPYAAQAALPPGYSNLLPPPPPPPPPTCRQLSPNPAPDDLPPWSIPQAGAGPGASGVPGSGLS
 GACAGAPHAPRFPASAAAAAAAAAALQRGLVLGPSDFAQYQSQAALLQTKAPLAATARRCRRRCPCNCQ
 AAGGAPEAEPGKKKQHVCHVPGCGKVYGKTSHLKAHLRWHTGERPFVCNWLF CGKSFTRSDQLQRHLRTH
 TGEKRFACPECGKRFMRSDHLAKHVKTHQNKLLKVAEAGVKREDARDL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001003845

ORF Size: 1194 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_001003845.3](#)

RefSeq Size: 1941 bp

RefSeq ORF: 1197 bp

Locus ID: 389058

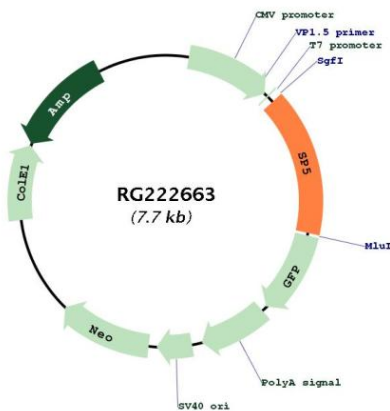
UniProt ID: [Q6BEB4](#)

Cytogenetics: 2q31.1

Protein Families: Transcription Factors

Gene Summary: Binds to GC boxes promoters elements. Probable transcriptional activator that has a role in the coordination of changes in transcription required to generate pattern in the developing embryo (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG222663