

Product datasheet for **MG222085**

Sp5 (NM_022435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Sp5 (NM_022435) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Sp5
Synonyms:	MGC144801; MGC144802
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222085 representing NM_022435 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCGCTGTGGCCGTCTCCGGAACGACTCACTGCAGGCCTTCTCCAGGACCGCACCCCAGCGCCT
CCCCGGACCTGGGCAAGCACTCGCCCTGGCGTGCTGGCCGCCACCTGTAGCCGGATCGGCCAGCCCGG
CGCTGCGCGGCCACCCGACTTCTTCAGGTGCCCTATGACCCAGCGCTGGGTTACCCCTCCAGACTTTTC
CACCTTGGACTGCCGACATGCCCGCGCACTCGCCAGGCGCCCTGCCGCCCCACACCCCAGCCTGGGGC
TGACGCCGAGAAAACACACCTGCAGCCGTCCTTCGGGGCAGCCACGAGCTCCCGCTCAGCCCCCGC
GGATCCGTCGTACCCCTACGAGTTCTCGCCGGTCAAGATGCTGCCCTCGAGCATGGCTGCCTGCCTGCC
AGCTGCGCGCCCGCTACGTGCCCTACGCCGCGCAGGCCGCGTTGCCCGGGGCTACTCCAACTGCTGC
CCCCGCCCGCCACCGCTCCACCGCCACCTGCCGCCAGTTATCCCCGCCCGGGCTCCGGACGACCT
CCCCTGGTGGAGCATCCCGCAATCGGGCGCGGGCCGGGGAGCTCCGGGGTTCCAGGGACCAGCCTCTCC
AGCGCCTGTGCCGACCTCCCCACGCTCCCGCTTCCCTGCCAGCCCGCTGCTGCAGCGCGGGCTG
CTGCCCTGCAACGGGGTCTAGTGTGGGCCCGTCGGACTTTGCACAGTACCAGAGCCAGATCGCCGCGCT
GCTGCAGACCAAGGCCCCCTGGCGGCCACGGCCAGGAGGTGCCCGCTGCCCTGCCCAACTGCCAG
GCGGCTGGCGGTGCCCGGAGGCGGAACCGGGCAAAAAGAACAACAGTGTGCCAGTGCAGGCTGTGT
GCAAGGTGTACGGCAAAACGTCGCACCTGAAGGCGCACCTGCGCTGGCACAGGGCGAGCGCCCTTCGT
GTGCAACTGGCTCTTCTGCGGCAAGAGCTTACGCGCTCGGACGAGCTGCAGCGGCACCTGCGGACTCAC
ACGGGCGAGAAGCGCTTCCGTTGTCCCAGTGGCGAAACGCTTCATGCGAAGCGATCACCTCGCCAAGC
ACGTGAAGACGCACCAAAATAAGAAGCTCAAAGTCGCTGAGGCCGGGTGAAGCGGGAGAATCCGCGGGA
CCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222085 representing NM_022435
 Red=Cloning site Green=Tags(s)

MAAVAVLRNDSLQAF LQDRTPSASPDLGKHSPLALLAATCSRIGQPAAAAAPDFLQVPYDPALGSPSRLF
 HPWTADMPAHSPGALPPPHPSLGLTPQKTHLQPSFGAAHELPLTPPADPSYPYEFSPVKMLPSSMAALPA
 SCAPAYVPYAAQAALPPGYSNLLPPPPPPPPPTCRQLSPAPAPDDL PWSIPQSGAGPGSSGVPGTSL
 SACAGPPHAPRFPASAAAAAALQRGLVLGPSDF AQYQSQAALLQTKAPLAATARRCRRRCPCNCQ
 AAGGAPEAEPGKKQHVCVPGCGKVYGKTSHLKAHLRWHTGERPFVCNWLFCGKSFTRSDQLQRHLRTH
 TGEKRFACPECGKRFMRSDHLAKHVKTHQNKLLKVAEAGVKRENPRDL

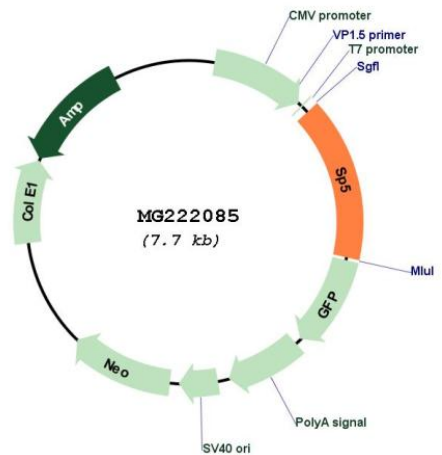
TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_022435

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:	<ol style="list-style-type: none">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_022435.2 , NP_071880.1
RefSeq Size:	2097 bp
RefSeq ORF:	1197 bp
Locus ID:	64406
UniProt ID:	Q9JHX2
Cytogenetics:	2 41.49 cM
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.[UniProtKB/Swiss-Prot Function]