

Product datasheet for **RG228271**

MANSC4 (NM_001146221) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	MANSC4
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PSI00010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG228271 representing NM_001146221
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATGTGGCAGAGGTAGCAGTGAACGTGATTTGCTCCTAAGCATGGGTGGACATCAGACTCTCTCT
GCTCACCCACAATTTTTACAGAGACTGCTGGATCCGTCGTTCCAGGTCTTCTAATCAATCTGGAGGA
GTCTCAGAAGCTGGGAGCCAGTTCTTGAAGTATTATTCTGAAAGCACTGGCCAGAAGTGCACTAGGAGC
TGCTGTCTTCGGAAGGATGTTTCTGTAACTGGCTGTCTTCTACCACAGTCCATTTCATGACAATATCA
ACTGCCTCCATGTTCACTGCCCAACACTGGAGAGCTGCATATTAGAGCCTGGAACCACTGCCATTTTGT
CAACATAACAGACGGTATAGATCCGGATTTGCTGGTTTTGAACAATCTCCACATATCTAATACTCGT
TCTTCATCCAATAGATGGGACAGACTAAGGATTCTAAAAGCTATGAATTTAGATAAAACAAACCACACGA
TAAATGGTATGCTGCCATCCACAGAGGCTCCATCCTCAACCACGCATCAAGATTTGGTTGTAACACAAA
CAGTACCAGTTATTCTAAGGAATTAACCACAGATTTTGGGCAAGATTTACTTCCCTGAATGAGTCCATT
ACCACAAGATAAATAAGGTGTCACCAAGTACTGATTTTCATCAGCAATCCAGATAATAAGACTATTTCTC
CTTTCTTTGAACCCATAGACACAAAATTTCTCATATGCCTGTTCCACCTGGACTCAACAGTAGCAAAACA
ATTACTAAACAAAACCAAGGATACAATAGCAGAAACACACATCTGCAATGAAGATGAGGTATCTGTG
ACTTCAAGACTTGGCTGGTTTCTGTGGCCCTTTGCACCTCTGTCTCTTCTCGGCTGTTGTATAGTCA
TCCTGGCATCTGGATGCTGTGAAAGCAGCAGGGCCAGTATAAACCAGGACAGAGAAATCAGGATCCTT
GCAAAATTAACCGTAACCATATGAAGGAGAACTCTTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG228271 representing NM_001146221
 Red=Cloning site Green=Tags(s)

MHVAEAVNVILLLSMGWTSDSLCSPTIFYRDCWIRRFPGLLINLEESQKLGAQFLKYSESTGQKCSRS
 CCLRKDVSCNLAVFYHSPIDHNINCLHVHCPTLESCILEPGTSAILYNITDGDIDPDLLVFEQSPTYLNTR
 SSSNRWDLRLILKAMNLDKQTTTNGMLPSTEAPSSSTHQDLVVNTNSTYSKELTTDFWARFTSLNESI
 TTKINKVSPSTDFISNPDNKTISPFFEPIDTKLSHMPVPPGLNSSKQLLNKTKGYNSRNHTSANEDVSV
 TSKTWLVSVLCTSVIFLGCCIVILASGCCGKQGGQYKPGQRKSGSLQIKNRNHMKENSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC - - - - -

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - - - -

PmeI FseI

GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - - E E R V Stop

ACCN: NM_001146221

ORF Size: 1020 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_001146221.5](#)

RefSeq Size: 1095 bp

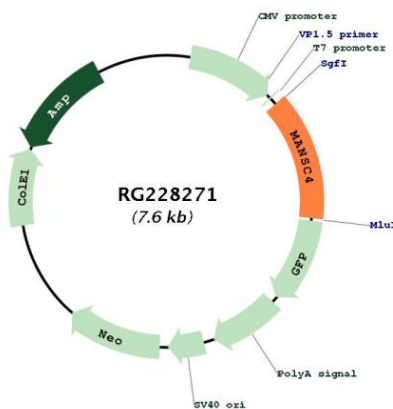
RefSeq ORF: 1023 bp

Locus ID: 100287284

UniProt ID: [A6NHS7](#)

Cytogenetics: 12p11.22

Product images:



Circular map for RG228271