

## Product datasheet for **MG220378**

### Msgn1 (NM\_019544) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Msgn1 (NM\_019544) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Msgn1  
**Synonyms:** Msgn; pMsgn1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG220378 representing NM\_019544  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGACAACCTGGGTGAGACCTTCTCAGCCTGGAGGATGGCCTGGACTCTTCTGACACCGCTGGTCTGC  
 TGGCCTCTGGGACTGGAAAAGCAGAGCCAGGCCCTTGGAGCTGGTCCAGGAGTCCCCACTCAAAGCCT  
 CTCCCAGCTCCTTCTCTGGAGTCTACTCTGAGGTCGCACTGCCCTGCGGGCACAGTGGGGCCAGCACA  
 GGAGGCAGCGATGGCTACGGCAGTCACGAGGCTGCCGGCTTAGTCGAGCTGGATTACAGCATGTTGGCTT  
 TTCAACCTCCCTATCTACACACTGCTGGTGGCCTCAAAGGCCAGAAAGGCAGAAAGTCAAGATGTCTGT  
 CCAGCGGAGACGGAAGGCCAGCGAGAGAGAGAAACTCAGGATGCGGACCTTAGCCGATGCCCTCCACAGC  
 CTCCGGAATTACCTGCCGCTGTCTACAGCCAGAGAGGCCAACCGCTCACCAAGATCCAGACACTCAAGT  
 ACACCATCAAGTACATCGGGAACTCACAGACCTCTCAACAGCAGCGGGAGAGAGCCCAGGCCACAGAG  
 TGTG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:** >MG220378 representing NM\_019544  
 Red=Cloning site Green=Tags(s)

MDNLGETFLSLEDGLDSSDTAGLLASWDWKSRRARPLELVQESPTQSLSPAPSLESYSEVALPCGHSGAST  
 GGSDDGYGSHEAAGLVELDYSMLAFQPPYLHTAGGLKGQKGSVKMSVQRRRKASEREKLRMRTLADALHT  
 LRNYLPPVYSQRGQPLTKIQTLKYTIKYIGELDLLNSSGREPRPQSV

**TRTRPLE** - GFP Tag - V

**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


**ACCN:** NM\_019544

**ORF Size:** 564 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\\_019544.1](#), [NP\\_062417.1](#)

**RefSeq Size:** 567 bp

**RefSeq ORF:** 567 bp

**Locus ID:** 56184

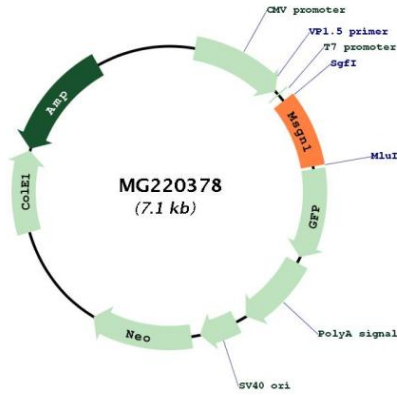
**UniProt ID:** [Q9JK54](#)

**Cytogenetics:** 12 A1.1

**Gene Summary:**

Involved in specifying the paraxial, but not dorsal, mesoderm. May regulate the expression of T-box transcription factors required for mesoderm formation and differentiation.  
 [UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG220378