

Product datasheet for **MG227398**

Gsc (NM_010351) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Gsc (NM_010351) Mouse Tagged ORF Clone
 Tag: TurboGFP
 Symbol: Gsc
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-AC-GFP (PS100010)
 E. coli Selection: Ampicillin (100 ug/mL)
 ORF Nucleotide Sequence: >MG227398 representing NM_010351
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCCGCCAGCATGTTTCAGCATCGACAACATCCTGGCCGCCCGCCGCGCTGCAAAGACGCGGTGCTCC
 CGGTGGCGCCAGCGCCGCGGCTCCGGTGGTCTTCCCGGCTCTACACGGGACTCGCTCTACGGCGCCGG
 CGGCGGCACCTCCTCGGACTACGGCGCCTTCTACCGCGCCCTGTGGCCCCGGAGGCGCGGGCCTCCCG
 GCCGCGGTCCGACGCTCCCGCCTGGGCTACAACAGCTACTTCTACGGGCAGCTGCACGTGCAGGCGGGCCG
 CCGTGGGCCCGGCTTGTGCGGGGCTGTGCCCGCGTGGCGCCAGCAGTGCTCCTCGTCCCGACGCC
 CCCAGGCTACGAGGGCCCGGTTCTGTAAGTGTCTCCGGTGCCGACCCAGATGCTGCCCTACATGAAC
 GTGGGCACGCTGTGCGCACTGAGCTGCAGCTGCTCAACCAGCTGCACTGTGCGCGGAAGCGGCGGACCC
 GCACCATCTTACCGATGAGCAGCTCGAAGCCCTGGAGAACCCTTCCAGGAGACGAAGTACCCAGACGT
 GGGCACTCGGGAGCAGCTGGCCAGGAAGGTGCACCTTCGGGAGGAGAAGGTGGAGGTCTGGTTTAAGAAC
 CGCCGAGCCAAGTGGAGACGACAGAAGCGATCCTCCTCGGAGGAGTCAAAAACGCCGAGAAGTGGAAACA
 AGACGCTCTCAAAGCCTCGCCGAGAAGAGGGAAGGAAGGTAAGGATTTGGACTCGGACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG227398 representing NM_010351
 Red=Cloning site Green=Tags(s)

MPASMFSIDNILAARPRCKDAVLPVAPSAAPVFPALHGDSL YGAGGTTSSDYGAFYPRPVAPGGAGLP
 AAVGSSRLGYNSYFYGQLHVQAAPVGPACCGAVPPLGAQQCSCVPTPPGYEGPGSVLVSPVPHQMLPYMN
 VGTLSRTELQLLNQLHCRRRRHRRTIFDEQLEALENLFQETKYPDVGTREQLARKVHLREEKVEVWFKN
 RRAKWRRQKRSSSESENAEKWNKTSSKASPEKREEEGKSDLSDS

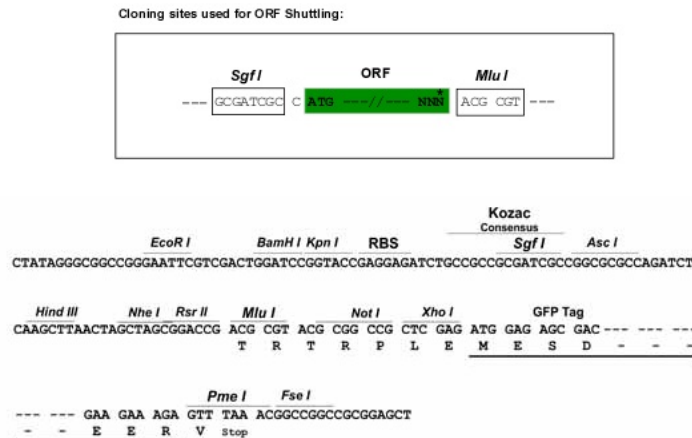
TRTRPLE - GFP Tag - V



[View online »](#)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010351

ORF Size: 768 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_010351.1](#), [NP_034481.1](#)

RefSeq Size: 1183 bp

RefSeq ORF: 771 bp

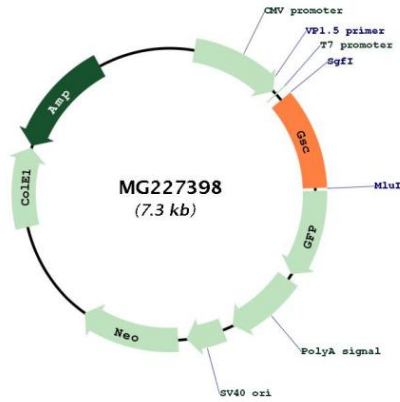
Locus ID: 14836

UniProt ID: [Q02591](#)

Cytogenetics: 12 54.32 cM

Gene Summary: Regulates chordin (CHRD). May play a role in spatial programming within discrete embryonic fields or lineage compartments during organogenesis (By similarity). In concert with NKX3-2, plays a role in defining the structural components of the middle ear; required for the development of the entire tympanic ring. Goosecoid-expressing regions of the gastrulating mouse egg cylinder have organizer-like activity when transplanted into *Xenopus* embryos. Probably involved in the regulatory networks that define neural crest cell fate specification and determine mesoderm cell lineages in mammals (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG227398