

Product datasheet for **MR227398**

Gsc (NM_010351) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsc (NM_010351) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gsc
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227398 representing NM_010351 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGCCAGCATGTTTCAGCATCGACAACATCCTGGCCGCCCGCCGCGCTGCAAAGACGCGGTGCTCC
CGGTGGCGCCAGCGCCGCGGCTCCGGTGGTCTTCCCGGCTCTACACGGGACTCGCTCTACGGCGCCGG
CGGCGGCACCTCCTCGGACTACGGCGCCTTCTACCGCGCCCTGTGGCCCCGGAGGCGCGGGCCTCCCG
GCCGCGGTCCGACAGTCCCGCCTGGGCTACAACAGCTACTTCTACGGGCAGCTGCACGTGCAGGCGGGCCG
CCGTGGGCCCGGCTTGTGCGGGGCTGTGCCCGCTGGCGGCCAGCAGTGTCTCTCGTCCCGACGCC
CCCAGGCTACGAGGGCCCGGTTCTGTAAGTGTCTCCGGTGCCGACCAAGATGCTGCCCTACATGAAC
GTGGGCACGCTGTGCGCACTGAGCTGCAGCTGCTCAACCAGCTGCACTGTGCGGGAAGCGGGCACC
GCACCATCTTACCGATGAGCAGCTCGAAGCCCTGGAGAACCCTTCCAGGAGACGAAGTACCCAGACGT
GGGCACTCGGGAGCAGCTGGCCAGGAAGGTGCACCTTCGGGAGGAGAAGGTGGAGGTCTGGTTTAAGAAC
CGCCGAGCCAAGTGGAGACGACAGAAGCGATCCTCCTCGGAGGAGTCAGAAAACGCCGAGAAGTGGAAACA
AGACGTCTCAAAGCCTCGCCGAGAAGAGGGAAGGAAGGTAAGCGATTTGGACTCGGACAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227398 representing NM_010351
 Red=Cloning site Green=Tags(s)

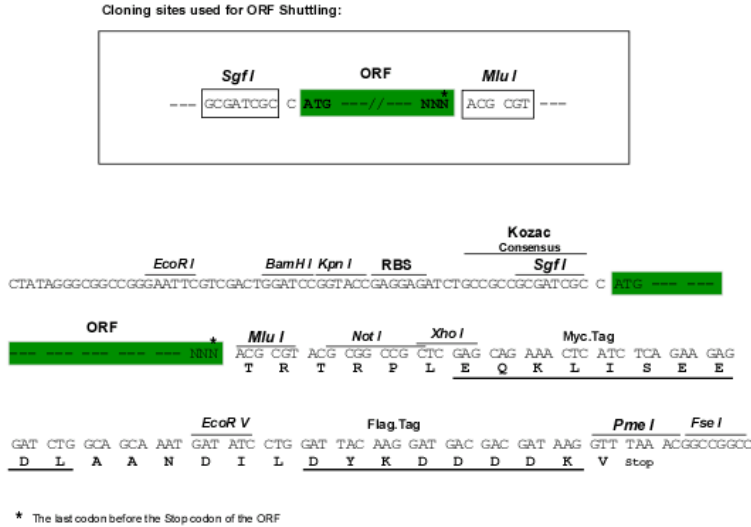
MPASMFSIDNILAARPRCKDAVLPVAPSAAPVVPALHGDSL YGAGGGTSSDYGAFYPRPVAPGGAGLP
 AAVGSSRLGYNSYFYQLHVQAAPVGPACCGAVPPLGAQQCSCVPTPPGYEGPGSVLVSPVPHQMLPYMN
 VGTLSRTELQLLNLHCRKRHRRTIF TDEQLEALENLFQETKYPDVGTREQLARKVHLREEKVEVWFKN
 RRAKWRRQKRSSSESENAEKWNKTSSKASPEKREEEGKSDLSDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_d02.zip

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

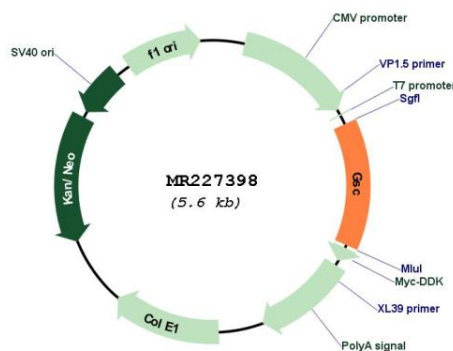
UniProt ID: [Q02591](#)

Cytogenetics: 12 54.32 cM

MW: 28.4 kDa

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 MR227398