

Product datasheet for **RG209586**

GSC (NM_173849) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GSC (NM_173849) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GSC
Synonyms:	SAMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209586 representing NM_173849 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGCCAGCATGTTTCAGCATCGACAACATCCTAGCCGCCCGGCCGCTGCAAGGACTCGGTGTTGC
CGGTGGCGCACAGCGCGGCCGCTCCCGTCGTCTCCCGGCCCTGCACGGGACTCGCTCTACGGCGCCAG
CGCGCGCCCTCCTCGGACTATGGCGCTTCTACCGCGCCCGTGGCCCCGGCGCGCGGCCCTCCCG
GCCGGTTCAGCGGCTCCCGCTCGGCTACAACAACACTTCTACGGGCAGCTGCAGTGCAGGCGCGGC
CCGTGGGCCCGCCGCTGTCGGGGCCGTCGCCCGCTGGGCGCCAGCAGTGTCTCTGCGTCCCGACGCC
CCCAGGCTACGAGGGCCCGGTTCCGGTGTGTTGTCCCGGTACCGCACCAGATGCTGCCCTACATGAAC
GTGGGCACGCTGTCGCGCACCGAGCTGCAGCTTCTCAACCAGCTGCACTGTGGCGGAAGCGGCGGACC
GCACCATCTTCACTGACGAGCAGCTCGAAGCTCTCGAGAACCTCTCCAGGAGACCAAGTACCCGGACGT
GGGCACGCGCGAGCAGCTGGCCCGAAAGTGCACCTCCCGGAGGAGAAAGTGGAGGTCTGGTTTAAGAAC
CGCCGCGCAAAATGGAGGCGGCAGAAGCGGTCTCATCAGAGGAGTCGGAGAACGCGGAGAAGTGGAAACA
AGACGTCGTCGAAGGCGTACCGGAGAAGAGGGAAGGAAGGTAAGGTAAGGATTTGGACTCGGACAG
C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209586 representing NM_173849
 Red=Cloning site Green=Tags(s)

MPASMFSIDNILAARPRCKDSVLPVAHSAAPVFPALHGDSL YGASGGASSDYGAFYPRPVAPGGAGLP
 AAVSGSRLGYNNYFYQLHVQAAPVGPACCGAVPPLGAQQCSCVPTPPGYEGPGSVLVSPVPHQMLPYMN
 VGTLSRTELQLNLHCRKRHRRTIF TDEQLEALENLFQETKYPDVGTREQLARKVHLREEKVEVWFKN
 RRAKWRRQKRSSSESENAEKWNKTSSSKASPEKREEEGKSDLSDS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173849

ORF Size: 771 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_173849.3](#)

RefSeq Size: 1217 bp

RefSeq ORF: 774 bp

Locus ID: 145258

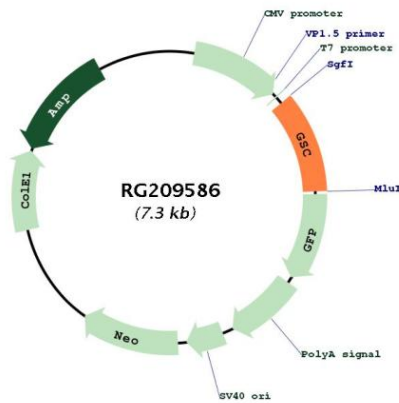
UniProt ID: [P56915](#)

Cytogenetics: 14q32.13

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the bicoid subfamily of the paired (PRD) homeobox family of proteins. The encoded protein acts as a transcription factor and may be autoregulatory. A similar protein in mice plays a role in craniofacial and rib cage development during embryogenesis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209586