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# Product datasheet for MR203190

## Gosr1 (NM_016810) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Gosr1 (NM_016810) Mouse Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | Gosr1 |
| **Synonyms:** | AI414660; AI426320; BB145494; GOS-28; GOSRI; GS28 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>MR203190 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCAGGAACCAGCAATTACTGGGAAGATCTCAGGAAACAAGCTCGGCAGCTGGAAAACGAACTTG
ACCTGAAACTCGTTTCCTTCAGTAAACTCTGTACGAGCTACAGCCACAGCGGCTCACGGGATGGAGGACG
CGATAGGTACAGTTCTGACACAACACCGCTATTAAATGGATCAAGCCAAGACAGAATGTTTGAGACAATG
GCAATTGAAATTGAACAGCTTTTGGCAAGGCTTACAGGAGTAAACGACAAAATGGCAGAGTACACCCACA
GTGCAGGGGTGCCCTCCCTGAATGCAGCCCTGATGCACACGCTGCAGCGACACAGAGACATTCTGCAGGA
TTATACACACGAATTTCATAAAACCAAAGCAAACTTTACGGCAATACGGGAAAGGGAGAATCTCATGGGA
TCAGTACGGAAAGATATTGAGTCATATAAAAGCGGGTCTGGAGTAAACAACAGGAGAACGGAACTGTTTC
TGAAAGAGCATGACCACCTTCGAAACTCTGATCGTCTGATAGAAGAAACAATAAGCATTGCTATGGCAAC
AAAAGAGAATATGACTTCCCAGAGAGGAATGCTCAAGTCAATTCACAGCAAGATGAACACTCTGGCCAAC
CGCTTTCCTGCCGTGAACAGCCTGATACAAAGGATCAACCTTAGGAAACGGCGTGACTCGCTCATCCTTG
GAGGTGTCATTGGCATCTGCACCATCCTGTTGCTGCTGTATGCGTTCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:**

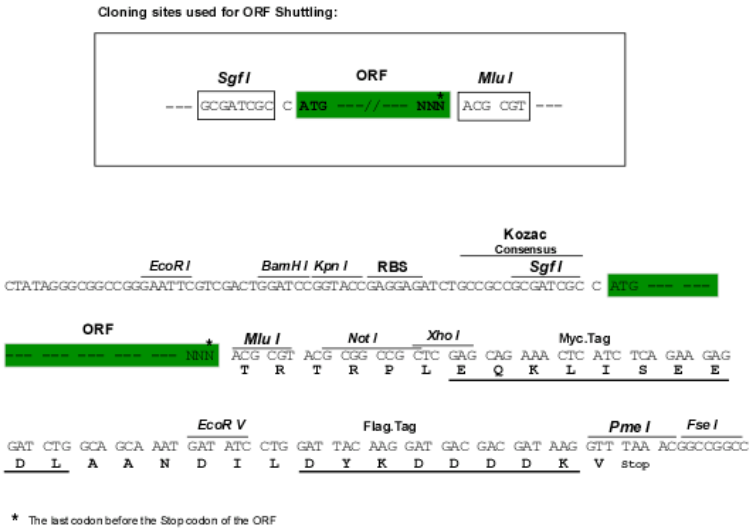
>MR203190 protein sequence
Red=Cloning site Green=Tags(s)

MAAGTSNYWEDLRKQARQLENELDLKLVSFSKLCTSYSHSGSRDGGRDRYSSDTTPLLNGSSQDRMFETM
AIEIEQLLARLTGVNDKMAEYTHSAGVPSLNAALMHTLQRHRDILQDYTHEFHKTKANFTAIRERENLMG
SVRKDIESYKSGSGVNNRRTELFLKEHDHLRNSDRLIEETISIAMATKENMTSQRGMLKSIHSKMNTLAN
RFPAVNSLIQRINLRKRRDSLILGGVIGICTILLLLYAFH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**ACCN:** NM_016810

**ORF Size:** 753 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_016810.4

**RefSeq Size:** 4265 bp

**RefSeq ORF:** 753 bp

**Locus ID:** 53334

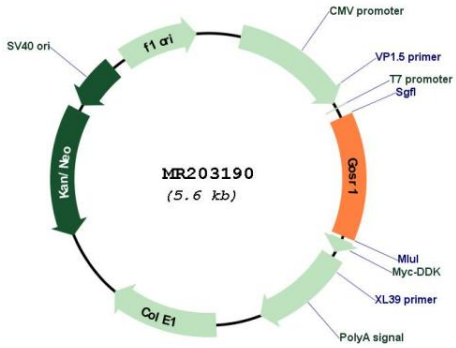
**UniProt ID:** O88630

**Cytogenetics:** 11 B5

**MW:** 28.5 kDa

**Gene Summary:** Involved in transport from the ER to the Golgi apparatus as well as in intra-Golgi transport. It belongs to a super-family of proteins called t-SNAREs or soluble NSF (N-ethylmaleimide-sensitive factor) attachment protein receptor. May play a protective role against hydrogen peroxide induced cytotoxicity under glutathione depleted conditions in neuronal cells by regulating the intracellular ROS levels via inhibition of p38 MAPK (MAPK11, MAPK12, MAPK13 and MAPK14). Participates in docking and fusion stage of ER to cis-Golgi transport. Plays an important physiological role in VLDL-transport vesicle-Golgi fusion and thus in VLDL delivery to the hepatic cis-Golgi (By similarity).[UniProtKB/Swiss-Prot Function]

## Product images:




Circular map for MR203190