

Product datasheet for **MG221852**

Gsx2 (NM_133256) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gsx2 (NM_133256) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gsx2
Synonyms:	Gsh-2; Gsh2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG221852 representing NM_133256 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGCGCTCCTTCTACGTGGACTCACTCATCATCAAGGACTCCTCACGGCCCGCACCCCTCGTGCCGG
AATCGCACCCAGGGCCGGATTTCTTCATCCCGCTGGGCATGCCGTCCCCGTTGGTGATGTCAGTGTCCGG
GCCTGGCTGTCCGTCCCGCAAAGCGGCCTTTCTGCGTGTGCCCGCTTTCGCTCACCTCGCACCTGCAC
TCCTCTCGCCCGCCCGCAGGAGCTGGTGGCGGAGCTACGGGGACCGGGGGCTGCAGTGGCGGGCGGCC
GGGTGGCTGGAGGCACCGCGCTCTACCTTTGCTCAAAGCCAGTTCTCTCCCGCTCCTGGGACCGCGCA
GTTTTGCCACGGGTGAGCCACGCACACCATCACCAACCCACACAGCATCATCATCACCATCACCGAG
CCCCAGCAGCCCGCTCGGCTGCAGCGCGGCCGCGCGCGCGCGCGGCGGCGAGCTGCGGCAGCGGGCGCTC
TGGGACACCCGCAGCACACCGCCTGTCTGCGCCGCACTACCTACAACATGTCGGACCCACGGAGATT
CCACTGCCTCTCCATGGGAGGCTCCGATACCAGCCAGGTACCCAATGGCAAAGGATGAGGACAGCGTTT
ACCAGCACGCAGCTCCTGGAGCTGGAGCGAGAATTCTCTTCCAATATGTACCTGTCCCGACTCCGGAGAA
TCGAGATCGCGACATACCTAAACCTGTCAGAGAAGCAGGTGAAAATCTGGTTTCAGAACCCTCGCGTGAA
GCACAAGAAGGAGGGGAAAGCGCTTCGAGGAACAATCACACAAGCTGCAAGTGCGTGGGTAGCCAGCGC
CATTATGCGCGCTCCGAGGACGAGGACTCCTTGTCCCTGCCTCGGCTAACGAAGACAAGGAGATTCCC
CCTTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221852 representing NM_133256
Red=Cloning site Green=Tags(s)

MSRSFYVDSLIIKDSSRPAPSLPESHGPDFFIPLGMPSPVMSVSGPGCPSRKSGAFVCVPLCVTSHLH
 SSRPPAGAGGGATGTAGAAVAGGGVAGGTGALPLLKSQFSPAPGDAQFCPRVSHAHHHHHPPQHSHHHHHQ
 PQQPGSAAAAAAAAAAAAAAAAALGHPQHHAPVCAATTYNMSDPRRFHCLSMGGSDTSQVPNGKRMRTAF
 TSTQLLELEREFSSNMYLSRLRRRIEIAATYLNLSKQVKIWFQNRVRKHKKEGKGASRNHTSCKCVGSQA
 HYARSEDEDSLSPASANEDKEISPL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_133256

ORF Size: 915 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_133256.2](#), [NP_573555.1](#)

RefSeq Size: 1665 bp

RefSeq ORF: 918 bp

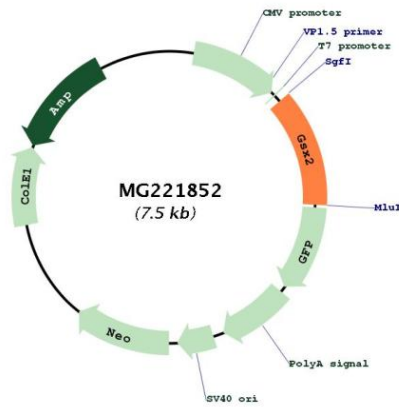
Locus ID: 14843

UniProt ID: [P31316](#)

Cytogenetics: 5 39.55 cM

Gene Summary: During telencephalic development, causes ventralization of pallial progenitors and, depending on the developmental stage, specifies different neuronal fates. At early stages, necessary and sufficient to correctly specify the ventral lateral ganglionic eminence (LGE) and its major derivatives, the striatal projection neurons. At later stages, may specify LGE progenitors toward dorsal LGE fates, including olfactory bulb interneurons (PubMed:19709628). Transcription factor that binds 5'-CNAATTAG-3' DNA sequence (PubMed:7619729).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG221852