**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for MG209472

## Glis1 (BC066157) Mouse Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | Glis1 (BC066157) Mouse Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | Glis1 |
| **Synonyms:** | Gli6, GliH1, Gli5 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |



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**ORF Nucleotide Sequence:**

>MG209472 representing BC066157
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTCAGCGCCCACACACCCCTGCCCACCCACTGCCGAGCCCCATCGTCCATGGGTCTGCCCTCAGACC
TGGACTTTCCAGACCGAGGCCTCACCAACCCTGCACCTTCCTGCTACCTTCTGGGCAATGAACCCATCTC
AGACCTGGGTCCCCAACCCGAGGCCCACCTCCCCGAGGGCAGCCTGAAACGCTGCTGCCTCCTGGGCCTG
CCCCCCACCTCTTCAGCCTCCTCCTCACCCTGTGCCTCCTCAGATATCAATCCTGTCATCCACTCCTCCC
AGACAGCTCTAGTTAGCTGTGTAAATGGACTCCGAAGCCCACCTCTGCCGGGAGACCTGGGGGGCCCTCC
CAAGCGGTCACGGCCCGGGCCTGCATCCAGTGACGGCCAGGAGGGCAGCTTGCAGCTTGAAGCATGCCGG
AAGTCAGGCTTCCTGAAGCAGGAGCCCATGGACGAGTTTTCAGAGCTTTTTGCTCCACACCACCAGGGTT
TGCCACCCCCTTACCCCTTGCCTCAGTTGCCAACTGGCCCCGGCCTCGGAGGCCTAGGGCTGGGCCTGGC
AGGTAGGATGGTTGCCGGTCGGCAGGCATGCCGCTGGGTGGACTGCTGCGCAGCCTACGGGCAGCAGGAG
GAGCTGGAGCGGCACATCGAGAAGAGCCACATCGACCAGCGCAAGGGCGAAGACTTCACCTGCTTCTGGG
CCGGGTGTGTGCGGCGCTACAAGCCCTTCAATGCCCGCTACAAGCTGCTCATCCACATGAGGGTACACTC
AGGCGAGAAGCCCAACAAGTGCATGTTCGAAGGCTGCAGTAAAGCCTTTTCCCGTCTGGAGAACCTGAAG
ATCCATCTGCGGAGCCACACAGGCGAGAAACCATACCTGTGCCAGCACCCAGGCTGCCAGAAGGCCTTCA
GCAACTCCAGCGACCGTGCCAAGCACCAACGCACCCACCTCGACACGAAGCCATATGCTTGTCAGATCCC
TGGCTGCTCCAAGCGCTACACGGACCCCAGCTCCCTCCGCAAGCACGTGAAGGCCCACTCAGCCAAAGAG
CAGCAGGTGCGTAAGAAGCTGCACACAGGTGCCGACCCAGAGGCTGATGTTCTGTCCGAGTGTCTGTCCC
TGCAGCAGCTCCAAGCATCCACACTGTTGCCGGCCAGCAGAGGGAAGGGCAGCCAAACCCTGAGCCAGGA
GCTCCTCCCAGGTGTGTATCCTGGCTCCGTCACCCCACAAAACGGGCTTGCTTCAGGCATCCTGTCCCCC
TCCCACGATGTCCCTTCCAGGCACCACCCACTGGAGGTCCCCACTGGTTCCCACCACCACCTGTCCCCTC
TGCCCACAGCTGAGAGCACCAGGGATGGCCTGGGGCCCAGTCTCCTTTCACCCATGGCCAGCCCACTGAA
GGGGCTTGGTCCCCCACCGCTACCACCAGCCTCCCAGAGTCAGTCTCCAGGGGGACAGTCATTCTCTACA
GTCCCCAGCAAGCCTACCTCCCCATCCTTCCAAAGCCCACCACCTCTGCCCAGCCCCCAAGGCTACCAAG
GCAGTTTCCATTCCATCCAGAACTGCTTCCCCTACGCTGACTGCTACCGGGCCACTGAGCCAGCAGCCTC
CAGGGATGGACTGGTGGGTGATGCCCACGGTTTCAACCCCTTGCGACCCAGCACATACTCCAGCCTCAGC
ACACCTTTATCCGCACCAGGCTACGAGACCCTGGCAGAAACGCCGTGTCCCCCAGCGCTGCAGCCACAGC
CAGCTGAAGACCTGGTACCTAGTGGTCCTGAGGACTGTGGCTTCTTCCCCAATGGGGCCTTTGACCACTG
TCTGAGTCACATCCCGTCCATCTACACTGACACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

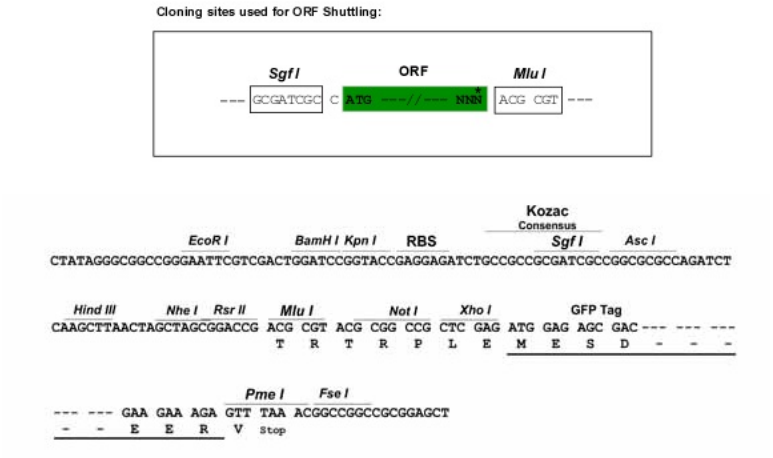
>MG209472 representing BC066157
Red=Cloning site Green=Tags(s)

MVSAHTPLPTHCRAPSSMGLPSDLDFPDRGLTNPAPSCYLLGNEPISDLGPQPEAHLPEGSLKRCCLLGL
PPTSSASSSPCASSDINPVIHSSQTALVSCVNGLRSPPLPGDLGGPPKRSRPGPASSDGQEGSLQLEACR
KSGFLKQEPMDEFSELFAPHHQGLPPPYPLPQLPTGPGLGGLGLGLAGRMVAGRQACRWVDCCAAYGQQE
ELERHIEKSHIDQRKGEDFTCFWAGCVRRYKPFNARYKLLIHMRVHSGEKPNKCMFEGCSKAFSRLENLK
IHLRSHTGEKPYLCQHPGCQKAFSNSSDRAKHQRTHLDTKPYACQIPGCSKRYTDPSSLRKHVKAHSAKE
QQVRKKLHTGADPEADVLSECLSLQQLQASTLLPASRGKGSQTLSQELLPGVYPGSVTPQNGLASGILSP
SHDVPSRHHPLEVPTGSHHHLSPLPTAESTRDGLGPSLLSPMASPLKGLGPPPLPPASQSQSPGGQSFST
VPSKPTSPSFQSPPPLPSPQGYQGSFHSIQNCFPYADCYRATEPAASRDGLVGDAHGFNPLRPSTYSSLS
TPLSAPGYETLAETPCPPALQPQPAEDLVPSGPEDCGFFPNGAFDHCLSHIPSIYTDT

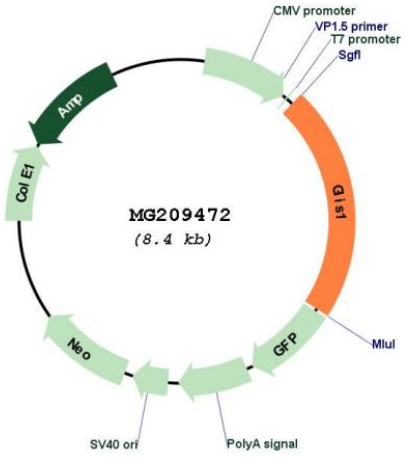
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**




**Plasmid Map:**




**ACCN:** BC066157

**ORF Size:** 1854 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | BC066157.1 |
| **RefSeq Size:** | 2431 bp |
| **RefSeq ORF:** | 1856 bp |
| **Locus ID:** | 230587 |
| **Cytogenetics:** | 4 C7 |
| **Gene Summary:** | Acts as both a repressor and activator of transcription (PubMed:12042312, PubMed:12385751, PubMed:21654807). Binds to the consensus sequence 5'-GACCACCCAC-3' (PubMed:12042312). By controlling the expression of genes involved in cell differentiation inhibits the lineage commitment of multipotent cells (PubMed:21654807, PubMed:30544251). Prevents, for instance, the differentiation of multipotent mesenchymal cells into adipocyte and osteoblast (PubMed:30544251).[UniProtKB/Swiss-Prot Function] |