

## Product datasheet for **MR209472**

### Glis1 (BC066157) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glis1 (BC066157) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glis1
Synonyms:	Gli6, GliH1, Gli5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209472 representing BC066157  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGTCAGCGCCACACACCCCTGCCACCCACTGCCAGCCCCATCGTCCATGGGTCTGCCTCAGACC  
 TGGACTTTCAGACCGAGGCCTACCAACCTGCACCTTCTGCTACCTTCTGGCAATGAACCCATCTC  
 AGACCTGGGTCCCAACCCGAGGCCACCTCCCGAGGGCAGCCTGAAACGCTGCTGCCTCTGGCCTG  
 CCCCCACCTCTCAGCCTCCTCCTCACCTGTGCCTCCTCAGATATCAATCCTGTATCCACTCTCCC  
 AGACAGCTCTAGTTAGCTGTGTAATGGACTCCGAAGCCACCTCTGCCGGGAGACCTGGGGGCCCTC  
 CAAGCGGTACGGCCCGGCCTGCATCCAGTGACGGCCAGGAGGGCAGCTTGACGTTGAAGCATGCCGG  
 AAGTCAGGCTTCTGAAGCAGGAGCCATGGACGAGTTTTAGAGCTTTTTGCTCCACACCACAGGGTT  
 TGCCACCCCTTACCCCTTGCTCAGTTGCCAACTGGCCCGGCCTCGGAGGCCTAGGGCTGGCCCTGGC  
 AGGTAGGATGGTTGCCGGTCCGACGGCATGCCGCTGGGTGGACTGCTGCCAGCCTACGGGCAGCAGGAG  
 GAGCTGGAGCGGCACATCGAGAAGGCCACATCGACCAGCGCAAGGGCGAAGACTTCACCTGCTTCTGGG  
 CCGGGTGTGTGCCGGCTACAAGCCCTCAATGCCCGCTACAAGCTGCTCATCCACATGAGGGTACTACTC  
 AGGCGAGAAGCCCAACAAGTGCATGTTGGAAGGCTGCAGTAAAGCCTTTCCCGTCTGGAGAACCTGAAG  
 ATCCATCTGCCGAGCCACACAGGCGAGAAACCATACCTGTGCCAGCACCCAGGCTGCCAGAAGGCCTTCA  
 GCAACTCCAGCGACCGTCCCAAGCACCAACGCACCCACCTCGACACGAAGCCATATGCTTGTGAGATCCC  
 TGGCTGCTCAAGCGCTACACGGACCCAGCTCCCTCCGAAGCAGTGAAGGCCACTCAGCCAAAGAG  
 CAGCAGGTGCGTAAGAAGCTGCACACAGGTGCCGACCCAGAGGCTGATGTTCTGTCCGAGTGTCTGTCCC  
 TGCAGCAGCTCCAAGCATCCACACTGTTGCCGGCCAGCAGAGGGAAGGGCAGCCAAACCTTGAGCCAGGA  
 GCTCCTCCAGGTGTGATCCTGGCTCCGTCACCCACAAAACGGGCTTGCTTCAGGCATCCTGTCCCCC  
 TCCCACGATGTCCCTTCCAGGCACCCACTGGAGGTCCCCTGTTCCCACACCACCTGTCCCTC  
 TGCCACAGCTGAGAGCACCCAGGATGGCCTGGGGCCAGTCTCCTTCCACCATGGCCAGCCACTGAA  
 GGGGCTTGGTCCCCACCGCTACCACAGCCTCCAGAGTCACTCCAGGGGACAGTATTCTCTACA  
 GTCCCCAGCAAGCCTACCTCCCATCCTTCAAAGCCACCCACTGCCCAGCCCCAAGGCTACCAAG  
 GCAGTTTCCATTCCATCCAGAAGTCTTCCCTACGCTGACTGCTACCGGGCCACTGAGCCAGCAGCCTC  
 CAGGGATGGACTGGTGGGTGATGCCACGGTTTCAACCCCTTGCAGCCAGCACATACTCCAGCCTCAGC  
 ACACCTTTATCCGACCCAGGCTACGAGACCTGGCAGAAAACGCCGTGCCCCAGCGCTGCAGCCACAGC  
 CAGCTGAAGACCTGGTACCTAGTGGTCTGAGGACTGTGGCTTCTCCCCAATGGGGCCTTTGACCACTG  
 TCTGAGTCACATCCCGTCCATCTACTGACACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209472 representing BC066157  
 Red=Cloning site Green=Tags(s)

MVSAHTPLPTHCRAPSSMGLPSDLDFPDRGLTNPAPSCYLLGNEPISDLGPQPEAHLPEGSLKRCCLLGL  
 PPTSSASSSPCASSDINPVIHSSQTALVSCVNLRSPLPGDLGGPPKRSRPGPASSDGGQEGSLQLEACR  
 KSGFLKQEPMDEFSELFAPHHQGLPPYPLPQLPTGPGLGGLGLAGRMVAGRQACRWVDCCAAYGQQE  
 ELERHIEKSHIDQRKGEDFTCFWAGCVRRYKPFNARYKLLIHMVHSGEKPNNKCMFEGCSKAFSRLLENLK  
 IHLRSHTGEKPYLCQHPGCQKAFSNSSDRAKHQRTHLDTKPYACQIPGCSKRYTDPSSLRKHVKAHSAKE  
 QQVRKLLHTGADPEADVLSECLSLQQLQASTLLPASRGKGSQTLSELLPGVYPGSVTPQNGLASGILSP  
 SHDVPSRHHPLEVPTGSHHLSPLPTAESTRDGLGPSLLSPMASPLKGLGPPPLPPASQSQSPGGQSFST  
 VPSKPTSPSFQSPPLPSPQGYQGSFHSIQNCFPYADCYRATEPAASRDGLVGDHGFNPLRPSTYSSLS  
 TPLSAPGYETLAETPCPPALQPQPAEDLVPSGPEDCGFFPNGAFDHCLSHIPSIYTD

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9033\\_a08.zip](https://cdn.origene.com/chromatograms/mm9033_a08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**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.
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:** [BC066157.1](#)

**RefSeq Size:** 2431 bp

**RefSeq ORF:** 1856 bp

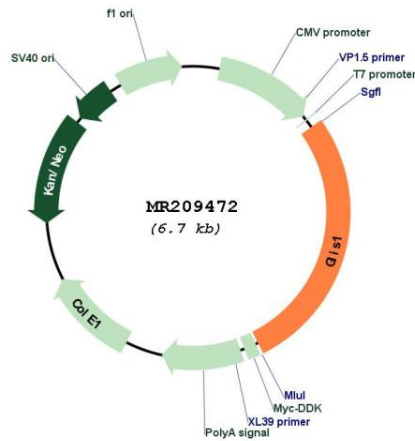
**Locus ID:** 230587

**Cytogenetics:** 4 C7

**MW:** 89.1 kDa

**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]

**Product images:**



Circular map for MR209472