

## Product datasheet for **MR224595**

### Glis1 (NM\_147221) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Glis1 (NM_147221) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glis1
Synonyms:	Gli5; Gli6; GliH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224595 representing NM\_147221  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCATTGCGAGGTGGCCGAGGCACTTTTCGGACAAGAGGCCAAAGGAGGCCCTGGTGCTCTGGCCAGG  
 GCCGCGGGCTGTGAGCCTGGGAGCGCACATGGCCTTCAGGATTGCTGTGAGTGGTGGCGGCTGCGGGGA  
 CGGAACCCGCTAGACCTGCTGCCTCGGCTACCGGTGCCACCACCACGTGCCACGATCTCCTTCGGCCC  
 CGGAGCCCTCGAGACTATGGTGTGTCCAAGACCGGCAGCGGAAGGTGAACGGGAGCTACGGGCACAGCT  
 CAGAGAAGAGCCTGCTGGACCTGGACCTGGCCGAGGGTCCCAGCCCTCCTGCCACCAGGGTCTGTTTCT  
 TCCTGCAGGGACCCACCACCCCGGGTCAACCCCTGTCTGTGAGAAGCTGCTGCACCTCCCCACCCA  
 AACAGGTACCCAGACCTCAGGCTACGTTGTGAACGGCAGCCTCCAGCCGCTCAGCACATCAAGCAAG  
 AAGCCCTACCGACTACCAGGCCATGGTACGCGCCACACACCCCTGCCACCCACTGCCGAGCCCATC  
 GTCATGGGTCTGCCCTCAGACCTGGACTTTCCAGACCGAGGCCACCAACCCTGCACCTTCTGTCTAC  
 TTCTGGCAATGAACCCATCTCAGACCTGGGTCCCAACCCGAGGCCACCTCCCCGAGGGCAGCCTGA  
 AACGCTGCTGCCTCCTGGGCTGCCCCACCTCTTCAGCCTCCTCTACCCTGTGCTCCTCAGATAT  
 CAATCCTGTATCCACTCCTCCCAGACAGCTCTAGTTAGCTGTGTAATGGACTCCGAAGCCACCTCTG  
 CCGGGAGACCTGGGGGGCCCTCCAAGCGGTACGCGCCCGGGCTGCATCCAGTGACGGCCAGGAGGGCA  
 GCTTGCAGCTTGAAGCATGCCGGAAGTCAGGCTTCTGAAGCAGGAGCCCATGGACGAGTTTTAGAGCT  
 TTTTGTCCACACCAGGGTTTGCCACCCCTTACCCTTGCCTCAGTTGCCAACTGGCCCGGGCCTC  
 GGAGCCCTAGGGCTGGGCTGGCAGGTAGGATGGTTGCCGGTGGCAGGCATGCCGTTGGTGGACTGCT  
 GCGCAGCCTACGAGCAGCAGGAGGAGCTGGTGCAGCACATCGAGAAGAGCCACATCGACCCAGCGCAAGGG  
 CGAAGACTTACCTGCTTCTGGGCGGGTGTGTGCGGCGCTACAAGCCCTCAATGCCCGCTACAAGCTG  
 CTCATCCACATGAGGGTACACTCAGCGAGAAGCCCAACAAGTGCATGTTGGAAGGCTGCAGTAAAGCCT  
 TTTCCCGTCTGGAGAACCTGAAGATCCATCTGCGGAGCCACACAGGCGAGAAACCATACCTGTGCCAGCA  
 CCCAGGCTGCCAGAAGGCCTTCAGCAACTCCAGCGACCGTCCAAGCACCACGCACCCACCTCGACACG  
 AAGCCATATGCTGTGATCCCTGGCTGCTCCAAGCGCTACACGGACCCAGCTCCCTCCGAAGCAG  
 TGAAGGCCACTCAGCCAAAGAGCAGCAGGTGCGTAAGAAGCTGCACACAGGTGCCGACCCAGAGGCTGA  
 TGTTCTGTCCGAGTGTGTCCCTGCAGCAGCTCCAAGCATCCACTGTTGCCGGCCAGCAGAGGGAAG  
 GGCAGCCAAACCTGAGCCAGGAGCTCCTCCCAGGTGTGTATCCTGGCTCCGTACCCCAAAAACGGGC  
 TTGCTTACAGCATCCTGTCCCCCTCCCAGATGTCCCTTCCAGGCACCACCCACTGGAGGTCCCCACTGG  
 TTCCCACCACCACCTGTCCCCTCTGCCACAGCTGAGAGCACCAGGGATGGCCTGGGGCCAGTCTCCTT  
 TACCCATGGTACGCCCACTGAAGGGGCTTGGTCCCCACCGCTACCACCAGCCTCCCAGAGTCACTCTC  
 CAGGGGGACAGTCATTCTACAGTCCCAGCAAGCCTACCTACCATCCTTCCAAGGCCACCACCTCT  
 GCCCAGCCCCAAGGCTACCAAGGCAGTTTCCATTCCATCCAGAAGTCTTCCCCTACGCTGACTGCTAC  
 CGGGCCACTGAGCCAGCAGCCTCCAGGGATGGACTGGTGGGTGATGCCACGGTTTCAACCCCTTGGCAG  
 CCAGCACATACTCCAGCCTCAGCACACCTTTATCCGCACCAGGCTACGAGACCTGGCAGAAACGCCGTG  
 TCCCCAGCGCTGCAGCCACAGCCAGCTGAAGACCTGGTACCTAGTGGTCTGAGGACTGTGGCTTCTTC  
 CCCAATGGGGCCTTTGACCACTGTCTGAGTCACATCCCGTCCATCTACACTGACACC

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR224595 representing NM\_147221  
 Red=Cloning site Green=Tags(s)

```
MHCEVAEALSDKRPKEAPGAPGQGRGPVSLGAHMAFRIAVSGGGCGDGNPLDLLPRLVPPPPRAHDLLRP
RSPRDYGVSKTGSGKVNQSYGHSSEKSLLDLDAEGPSPSCHQGLFLPAGTPPPRGHPPVCEKLLHFPH
NRSPRQATFVNGSLPAAQHIKQEALPDYQAMVSAHTPLPTHCRAPSSMGLPSDLDFPDRGLTNPAPSCY
LLGNEPISDLGPQPEAHLPEGSLKRCCLLGLPPTSSASSSPCASSDINPVIHSSQTALVSCVNGLRSPPL
PGDLGGPPKRSRPGPASSDQEGSLQLEACRKSGLKQEPDEFSELFAPHHQGLPPYPLPQLPTGPG
GGLGLGLAGRMVAGRQACRWVDCCAAYEQEELVRHIEKSHIDQRKGEDFTCFWAGCVRRYKPFNARYKL
LIHMRVHSGEKNKCMFEGCSKAFSRLENLKIHLRSHTGEKPYLCQHPGCQKAFSNSDRAKHQRTHLDT
KPYACQIPGCSKRYTDPSSLRKHVKAHSAKEQQVRKLLHTGADPEADVLSECLSLQQLQASTLLPASRGK
GSQTLSEQLLPGVYVPGSVTPQNGLASGILSPSHDVPSRHHPLEVPTGSHHHL SPLPTAESTRDGLGPSLL
SPMVSPKGLGPPPLPPASQSPGGQSFSTVPSKPTYPFQSPPLPSPQGYQGSFHSIQNCFPYADCY
RATEPAASRDGLVGDAGFNPLRPSTYSSLSTPLSAPGYETLAETPCPPALQPQPAEDLVPSGPEDCGFF
PNGAFDHCLSHIPSIYTD
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_147221

**ORF Size:** 2367 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\\_147221.2](#), [NP\\_671754.2](#)

**RefSeq Size:** 2904 bp

**RefSeq ORF:** 2370 bp

**Locus ID:** 230587

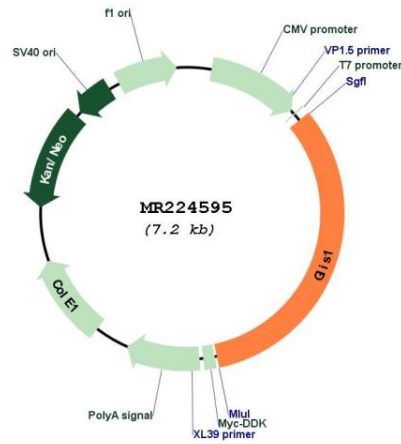
**UniProt ID:** [Q8K1M4](#)

**Cytogenetics:** 4 C7

**MW:** 84.6 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 MR224595