

Product datasheet for **MG224595**

Glis1 (NM_147221) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glis1 (NM_147221) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glis1
Synonyms:	Gli5; Gli6; GliH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224595 representing NM_147221
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATTGCGAGGTGGCCGAGGCACTTTTCGGACAAGAGGCCAAAGGAGGCCCTGGTGCTCTGGCCAGG
 GCCGCGGGCTGTGAGCCTGGGAGCGCACATGGCCTTCAGGATTGCTGTGAGTGGTGGCGGCTGCGGGGA
 CGGAACCCGCTAGACCTGCTGCCTCGGCTACCGGTGCCACCACACGTGCCACGATCTCCTTCGGCCC
 CGGAGCCCTCGAGACTATGGTGTGTCCAAGACCGGCAGCGGAAGGTGAACGGGAGCTACGGGCACAGCT
 CAGAGAAGAGCCTGCTGGACCTGGACCTGGCCGAGGGTCCCAGCCCTCCTGCCACCAGGGTCTGTTTCT
 TCCTGCAGGGACCCACCACCCCGGGTCAACCCCTGTCTGTGAGAAGCTGCTGCACCTCCCCACCCA
 AACAGGTACCCAGACCTCAGGCTACGTTGTGAACGGCAGCCTCCAGCCGCTCAGCACATCAAGCAAG
 AAGCCCTACCGACTACCAGCCATGGTCAGCGCCACACACCCCTGCCACCCACTGCCGAGCCCATC
 GTCATGGGTCTGCCCTCAGACCTGGACTTTCCAGACCGAGGCCACCAACCCTGCACCTTCTGTCTAC
 TTCTGGCAATGAACCCATCTCAGACCTGGGTCCCAACCCGAGGCCACCTCCCCGAGGGCAGCCTGA
 AACGCTGCTGCCTCCTGGGCTGCCCCCACTCTTCAGCCTCCTCTCACCCCTGTGCTCCTCAGATAT
 CAATCCTGTATCCACTCCTCCCAGACAGCTCTAGTTAGCTGTGTAATGGACTCCGAAGCCACCTCTG
 CCGGGAGACCTGGGGGGCCCTCCAAGCGGTACGGCCCGGGCTGCATCCAGTGACGGCCAGGAGGGCA
 GCTTGCAGCTTGAAGCATGCCGGAAGTCAGGCTTCTGAAGCAGGAGCCCATGGACGAGTTTTAGAGCT
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 GGAGCCCTAGGGCTGGGCTGGCAGGTAGGATGGTTGCCGGTCCGACGGCATGCCGCTGGTGGACTGCT
 GCGCAGCTACGAGCAGCAGGAGGAGCTGGTGCAGCACATCGAGAAGAGCCACATCGACCCAGCGCAAGGG
 CGAAGACTTACCTGCTTCTGGCCGGGTGTGTGCGGCGCTACAAGCCCTTCAATGCCCGCTACAAGCTG
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 TTTCCCGTCTGGAGAACCTGAAGATCCATCTGCGGAGCCACACAGGCGAGAAACCATACCTGTGCCAGCA
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 AAGCCATATGCTGTGATCCCTGGCTGCTCCAAGCGCTACACGGACCCAGCTCCCTCCGAAGCAG
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 TGTTCTGTCCGAGTGTGTCCCTGCAGCAGCTCCAAGCATCCACTGTTGCCGGCCAGCAGAGGGAAG
 GGCAGCCAAACCCTGAGCCAGGAGCTCCTCCCAGGTGTGTATCCTGGCTCCGTACCCCAAAAACGGGC
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 TACCCATGGTACGCCCACTGAAGGGGCTTGGTCCCCACCGCTACCACCAGCCTCCCAGAGTCACTCTC
 CAGGGGGACAGTCATTCTACAGTCCCAGCAAGCCTACCTACCCATCCTTCCAAGGCCACCCACTCT
 GCCAGCCCCAAGGCTACCAAGGCAGTTTCCATTCCATCCAGAAGTCTTCCCCTACGCTGACTGCTAC
 CGGGCCACTGAGCCAGCAGCCTCCAGGGATGGACTGGTGGGTGATGCCACGGTTTCAACCCCTTGGCAG
 CCAGCACATACTCCAGCCTCAGCACACCTTTATCCGCACCAGGCTACGAGACCCCTGGCAGAAACGCCGTG
 TCCCCAGCGCTGCAGCCACAGCCAGCTGAAGACCTGGTACCTAGTGGTCTGAGGACTGTGGCTTCTTC
 CCCAATGGGGCCTTTGACCACTGTCTGAGTCACATCCCGTCCATCTACACTGACACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG224595 representing NM_147221
Red=Cloning site Green=Tags(s)

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MHCEVAEALSDKRPKEAPGAPGQGRGPVSLGAHMAFRIAVSGGGCGDGNPLDLLPRLVPPPPRAHDLLRP
RSPRDYGVSKTSGSKVNGSYGHSSEKSLLDLDAEGPSPSCHQGLFLPAGTPPPGRHPPVCEKLLHFPH
NRSRPRQATFVNGSLPAAQHIKQEALPDYQAMVSAHTPLPTHCRAPSSMGLPSDLDFDRGLTNPAPSCY
LLGNEPISDLGPQPEAHLPEGLKRCCLLGLPPTSSASSSPCASSDINPVIHSSQTALVSCVNGLRSPPL
PGDLGGPPKRSRPGPASSDQEGSLQLEACRKSGLKQEPMDEFSELFAPHHQGLPPYPLPQLPTGPGL
GGLGLGLAGRMVAGRQACRWVDCCAAYEQEELVRHIEKSHIDQRKGEDFTCFWAGCVRRYKPFNARYKL
LIHMRVHSGEKPNCMFEGCSKAFSRLENLKIHLRSHTGEKPYLCQHPGCQKAFSNSDRAKHQRTHLDT
KPYACQIPGCSKRYTDPSSLRKHVKAHSAKEQQVRKLLHTGADPEADVLSECLSLQQLQASTLLPASRGK
GSQTLSEQLLPGVYVPGSVTPQNGLASGILSPSHDVPSRHHPLEVPTGSHHHL SPLPTAESTRDGLGPSLL
SPMV SPLKGLGPPPLPPASQSQSPGGQSFSTVPSKPTYPFSQSPPLPSPQGYQGSFHSIQNCFPYADCY
RATEPAASRDGLVGDAGHFNPLRPSTYSSLSTPLSAPGYETLAETPCPPALQPQPAEDLVPSPGEDCGGF
PNGAFDHCLSHIPSIYTD
```

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_147221

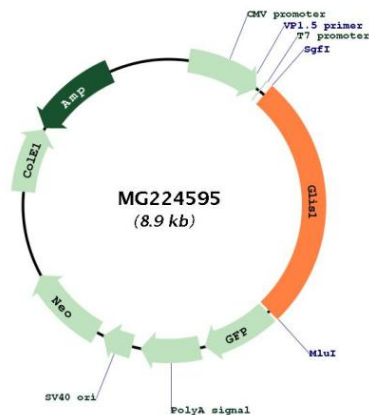
ORF Size: 2367 bp

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
- 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 MG224595