

Product datasheet for **MG208349**

Glis2 (NM_031184) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glis2 (NM_031184) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glis2
Synonyms:	Gli5; Klf16; Nkl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG208349 representing NM_031184
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCACTCCTTGGACGAGCCCTCGACCTAAAGCTGAGCATCACCAAGCTCCGAGCGCAAGAGAGAAGA
 GAGAAAGGACACTGGGTGTGGTCCGGCATCATGCTTTCATCGAGAGCTGGCCCTGGTGGACGATAGCCC
 CGCCCTGGCTCCCCAGGCTCTCCACCACCAGTTTCTGCTGAACCCAAATTCCTGAGAAGGTGGAC
 GGACGCTTTTCTGCAGCCCCCTGGTGGACCTCAGCTTGTACCACCCTCTGGACTGGACTCTCCAATG
 GCAGCAGTCCCTGTCTCCTGAGTGCCAGGCAATGGGGACTGCCTCCACTGCCTACTGCTGTGGATTT
 CCAGCCACTTCGCTATTTGGATGGTGTCCCCAGTTCCTCCAGTTCCTTGGCCCTGGGTTCTGGTGGG
 GCTCTGCACCTACCTGCTCCTCCTTCTCCCCCCCCAAGGACAAGTGCCTCTACCAGAGCTGCCCC
 TGGCCAAGCAGCTGGTGTGTGATGGGCCAAGTGAACCAGCTCTTTGAGCTCCTCAAGACCTGGTTGA
 CCATGTCAACGACCATCATGTCAAGCCTGAACAGGATGCTCGATACTGCTGTCATTGGGAGGGCTGCGCC
 CGCATGGCCGTGGCTTCAATGCCAGGTACAAGATGCTCATTACATCCGACACACACCAACGAGAAGC
 CGCACCGATGCCCCACCTGTAACAAGAGCTTCTCCCGCCTGGAGAACCTGAAGATCCACAACCGCTCCCA
 CACAGGTGAGAAGCCCTACGCTGCCCCCTATGAGGGCTGCAACAAGCGTACTCCAACCTCAGTGACCGC
 TTCAAGCACACCCGTACCCACTACGTAGACAAGCCCTACTACTGCAAGATGCCCGGCTGTACAAGCGTT
 ACACGGACCCAGTTCCTGCGCAACACATCAAGGCCCATGGCCACTTTGTGTACATGAGCAGCAGGA
 GCTCCTGCAGCTGCGCCACCCCTAAACCACCACTGCCACTCCTGACAGTGGCTCCTATGTACAGGGG
 GCTCAGATCATCATCCGAACCTGCTGCCCTTTTGGAGGCCCAAGTGCCTGGCTGGCCTGCCATTACCTC
 TACCTCTGGCCCCCTTGACCTCAGTGCCTGGCCTGTGGCAATGGTGGAGGTGGGGGTATTGG
 CCTGGGCTGCCAGGCTCTGTTCTGCCCTCAATCTGGCCAAGAACCCTGTTGCCCTCACCTTTGGG
 GCTGGTGGACTAGGCTGCCTGTGGTTTCTCTCCTGGGTGGCTCTGCCGTTAGCAAGGCCGAGGGGAGA
 AGGGTCTGGGTGAGTACCTGCCAGGGTCTGGCCTGGAAGATCACAAGACGCCCTGGAAGGACGGA
 GCGCAGCCGCTCCCGCCAAGCCCTGATGGACTCCCTTTGCTCCAGGCACTGTACTGGACCTGTCCACA
 GGCAACTCAGCAGCCAGCAGTCCAGAGGTGTTAACTCCTGGTGGGTGGTATTCCACCAGGGTCTGTGC
 TGCTCAAACCAGCTGTGGTAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208349 representing NM_031184
 Red=Cloning site Green=Tags(s)

MHSLDEPLDLKLSITKLRAREKRERTLGVVRHHLHRELGLVDDSPAPGSPGSPPPGFLNPKFPPEKVD
 GRFSAAPLVDLSLSPPSGLDSPNGSSLSPECQNGDLPPLPTAVDFQPLRYLDGVPSSFQFFLPLGSGG
 ALHLPASSFLPPPDKCLSPELPLAKQLVCRWAKCNQLFELLQDLVDHVNDHHVKPEQDARYCCHWEGCA
 RHGRGFNARYKMLIHIRTHTNEKPHRCPTCNKSFRLNENLKIHNRSHTGEKPYVCPYEGCNKRYNSSSDR
 FKHTRTHYVDKPYCKMPGCHKRYTDPSSLRKHKAHGHFVSHEQQELLQLRPPPKPPLPTPDSGSYVSG
 AQIIIPNPAALFGGSLPGLPLPLPPGPLDL SALACGNGGGGGGIGPGLPGSVLPLNLAKNPLLPSPFG
 AGGLGLPVVSLGGSAGSKAEKEKGRGSPARVLGLEDHKTPLERTERSRSPDGLPLLPGLVLDLST
 GNSAASSPEVLTPGWVVIIPGSVLLKPAVVN

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

ACCN:	NM_031184
ORF Size:	1563 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:	<ol style="list-style-type: none">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_031184.3 , NP_112461.2
RefSeq Size:	3619 bp
RefSeq ORF:	1566 bp
Locus ID:	83396
UniProt ID:	Q8VDL9
Cytogenetics:	16 2.45 cM
Gene Summary:	Can act either as a transcriptional repressor or as a transcriptional activator, depending on the cell context. Acts as a repressor of the Hedgehog signaling pathway. Represses the Hedgehog-dependent expression of Wnt4. Necessary to maintain the differentiated epithelial phenotype in renal cells through the inhibition of SNAI1, which itself induces the epithelial-to-mesenchymal transition. Represses transcriptional activation by CTNNB1 in the Wnt signaling pathway. May act by recruiting the corepressors CTBP1 and HDAC3. May be involved in neuron differentiation.[UniProtKB/Swiss-Prot Function]