

Product datasheet for **MR208349**

Glis2 (NM_031184) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glis2 (NM_031184) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glis2
Synonyms:	Gli5; Klf16; Nkl
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208349 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACTCCTTGGACGAGCCCTCGACCTAAAGCTGAGCATCACCAAGCTCCGAGCGGCAAGAGAGAAGA
 GAGAAAGGACACTGGGTGTGGTCCGGCATCATGCTTTGCATCGAGAGCTGGCCCTGGTGGACGATAGCCC
 CGCCCTGGCTCCCCAGGCTCTCCACCACCAGGTTTCTGCTGAACCCAAATTCCTTGAGAAGGTGGAC
 GGACGCTTTTCTGCAGCCCCCTTGGTGGACCTCAGCTTGTACCACCCTCTGGACTGGACTCTCCAATG
 GCAGCAGTCCCTGTCTCCTGAGTGCCAGGCAATGGGGACTTGCTCCACTGCCTACTGCTGTGGATTT
 CCAGCCACTTCGCTATTTGGATGGTGTCCCCAGTTCCTCCAGTTCCTTGGCCCTGGGTTCTGGTGGG
 GCTCTGCACCTACCTGCTCCTCCTTCTCCCCCCCCAAGGACAAGTGCCTCTACCAGAGCTGCCCC
 TGGCCAAGCAGCTGGTGTGTGATGGGCCAAGTGAACCAAGCTCTTTGAGCTCTCCAAGACCTGGTTGA
 CCATGTCAACGACCATCATGTCAAGCCTGAACAGGATGCTCGATACTGCTGTCATTGGGAGGGCTGCGCC
 CGCATGCGCCGTGGCTTCAATGCCAGGTACAAGATGCTCATTACATCCGGACACACACCAACGAGAAGC
 CGCACCGATGCCCCACCTGTAACAAGAGCTTCTCCCGCCTGGAGAACCTGAAGATCCACAACCGCTCCCA
 CACAGGTGAGAAGCCCTACGCTGCCCCCTATGAGGGCTGCAACAAGCGTTACTCCAACCTCCAGTGACCGC
 TTCAAGCACACCCGTACCCACTACGTAGACAAGCCCTACTACTGCAAGATGCCCGGCTGTACAAGCGTT
 ACACGGACCCAGTTCACTGCGCAAACACATCAAGGCCCATGGCCACTTTGTGTACATGAGCAGCAGGA
 GCTCCTGCAGCTGCGCCACCCCTAAACCACCACTGCCACTCCTGACAGTGGCTCCTATGTACAGCGG
 GCTCAGATCATCATCCGAACCTGCTGCCCTTTTGGAGGCCCAAGTGCCTGCCTGGCCTGCCATTACCTC
 TACCTCTGGCCCCCTTGACCTCAGTGCCTGGCCTGTGGCAATGGTGGAGGTGGGGGTGGGGATTGG
 CCTGGGCTGCCAGGCTCTGTTCTGCCCTCAATCTGGCCAAGAACCCTGTTGCCCTCACCTTTGGG
 GCTGGTGGACTAGGCTGCCTGTGGTTTCTCTCCTGGGTGGCTCTGCCGGTAGCAAGGCCGAGGGGAGA
 AGGGTCGTGGGTGAGTACCTGCCAGGCTCCTGGCCTGGAAGATCACAAGACGCCCTGGAAGGACGGA
 GCGCAGCCGCTCCCGCCAAGCCCTGATGGACTCCCTTTGCTCCAGGCACTGTACTGGACCTGTCCACA
 GGCAACTCAGCAGCCAGCAGTCCAGAGGTGTTAACTCCTGGTGGGTGGTATTCCACCAGGGTCTGTGC
 TGCTCAAACCAGCTGTGGTAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208349 protein sequence
 Red=Cloning site Green=Tags(s)

MHSLDEPLDLKLSITKLRAAREKRERTLGVVRHHLHRELGLVDDSPAPGSPGSPPPGFLNPKFPEKVD
 GRFSAAPLVDLSLSPPSGLDSPNGSSLSPECQNGDLPPLPTAVDFQPLRYLDGVPSSFQFFLPLGSGG
 ALHLPASSFLPPPKDKLSPELPLAKQLVCRWAKCNQLFELLQDLVDHVNDHHVKPEQDARYCCHWEGCA
 RHGRGFNARYKMLIHIRTHTNEKPHRCPTCNKSFRLNENLKIHNRSHTGEKPYVCPYEGCNKRYNSSSDR
 FKHTRTHYVDPKPYCKMPGCHKRYTDPSSLRKHKAHGHFVSHEQQELLQLRPPPKPPLPTPDSGSYVSG
 AQIIIPNPAALFGGPSLPLPLPPGPLDL SALACGNGGGGGGGIGPLPGSVLPLNLAKNPLLPSPFG
 AGGLGLPVVSLGGSAGSKAEKEKGRGSPARVLGLEDHKTPLERTERSRSPDGLPLLPGLVLDLST
 GNSAASSPEVLTPGWVVIIPGSLVLLKPAVVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_031184

ORF Size: 1566 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_031184.3](#), [NP_112461.2](#)

RefSeq Size: 3619 bp

RefSeq ORF: 1566 bp

Locus ID: 83396

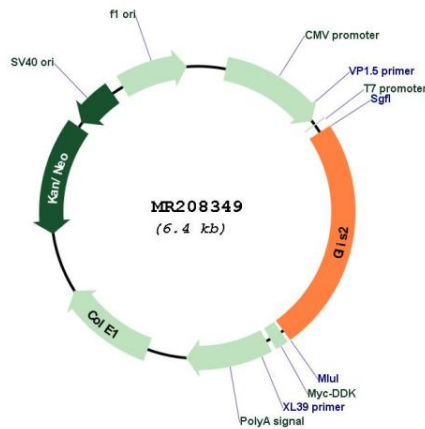
UniProt ID: [Q8VDL9](#)

Cytogenetics: 16 2.45 cM

MW: 55.8 kDa

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]

Product images:



Circular map for MR208349