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Product datasheet for MC222716

Glis3 (NM_175459) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glis3 (NM_175459) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Glis3
Synonyms:	4833409N03Rik; E330013K21Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF:

>MC222716 representing NM_175459
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAATGGAAGGTCATGTGGCATGAATCTCCACCGGACATCAAGAACCCCACAGGGGCCTGGCCTACTCG
GTGGTCAACATATCCCTCCCATCAGAGCCCACGCAGGCACTCCCTGCTCCTCTTCCTGTGCCAGCACGCC
GAGCCCCAGTATTGGAAGTCTTGCTAACAGTCTTCACCTCAAGATGTCCTCGGGAGCAGGGATGGCTCCT
CAGAGCAACATGGCCGCGAGTCCCATCCATCTGCCTGCCCTGAGCCCCAGGAGACAGTTACTCGCCAATG
GGAAGCCTCAGTTCCAGGTCACCCCGGCTGGTGTCATGGCAGCACCACATACTATAAAGCCCAAACAGCA
AGAATTTGGAGACCCCTTCTCTCCAAATCCTGAGAAAGGGGCTCTTGGCTTTGGGCCTCAGTGCAAGTCC
ATTGGAAAAGGCAGCTGCAACAATCTAGTGGTCACCAGCAGTCCCATGATGGTTCAGCGACTGGGACCCA
TTTCACCTCCAGCAAGCCAGGTCTCCACAGCATGCAAGCAGATCAGTCCTAGCTTACCGAGGGCAGTGAA
TGCAGCCAACCTGAATAGACCTCCTTCAGATACCAGGTCCGTTATTTTGCAAGAGTCTCTGGTGTCCACG
ACTTTGAGTCTGACAGAGAGTCAATCAGCCTTGAGTGTGAAGCAAGAGTGGTCTCAGAGCTACAGGGCTT
TCCCTTCACTTTCATCCAGCCACAGTTCCCAGAATGGCACGGACCTAGGGGACCTTCTTAGCTTGCCTCC
AGGCACGCCAGTGTCTGGCAACAGCGTCTCCAACTCGTTGCCACCCTACCTTTTCGGCATGGAAAATAGC
CACTCTCCTTACCCTAGCCCTCGGCACTCAGCAACCAGGGCCCACTCCACCCGCTCTAAGAAGAGAGCAT
TGTCCTTGTCGCCACTGTCAGATGGCATCGGGATCGACTTCAACACTATCATCCGTACTTCACCCACATC
CTTGGTCGCCTACATCAACGGACCAAGAGCCTCCCCAGCCAACCTGTCCCCACAGTCAGAGGTCTATGGG
CATTTCCTGGGTGTTCGTGGCAGCTGCATCCCCCAGTCTTGTGCAGTGGCCAGCGGGCAGAAAGGCATAT
TGGTTGCCAGTGGAGGGCATACGCTGCCGGGCTATGGAGAGGACGGTACACTGGAGTATGAACGCATGCA
GCAGCTTGAGCATGGTGGCCTGCAACCCGGACCTGTAAACAACATGGTGTTGCAGCCTGGCCTACCGGGC
CAGGATGGCCAGACAGCCAACATGCTCAAAACAGAGCGCCTGGAGGAGTTCCCCGCCAGTGCCTTGGACC
TGCCCTCTGCTCTGCCTCTCCCTCTTCCTCCGCCTCAGGGTCCCCCACCCCCATACCATGCCCATCCACA
CCTTCATCACCCAGAGCTCCTGCCTCACACCCAATCGCTGTCCCTGGCCCAGACTGGCCTGGAAGAGGAT
GGGGAGATGGAAGACTCAGGGGGGAAGCACTGCTGCCGTTGGATAGACTGCAGTGCCCTTTATGACCAGC
AGGAGGAACTGGTGAGGCACATCGAGAAGGTCCACATAGACCAACGCAAGGGGGAAGACTTCACGTGCTT
CTGGACTGGCTGCCCTAGAAGATACAAGCCTTTCAACGCACGGTATAAACTGCTGATCCACATGAGGGTC
CACTCTGGGGAGAAGCCCAACAAGTGTACGTTCGAAGGCTGCAAGAAGGCCTTTTCCAGGCTCGAGAACC
TCAAGATTCACTTGCGGAGCCACACGGGTGAGAAGCCATACTTGTGCCAGCATCCGGGCTGCCAAAAGGC
CTTCAGCAATTCCAGTGACCGTGCCAAGCACCAGAGGACACATCTTGACACTAAACCTTATGCTTGTCAA
ATTCCAGGATGTACAAAGCGCTACACAGACCCAAGCTCCCTCAGAAAGCACGTGAAGGCACATTCTTCCC
GAGAGCAGCAAGCAAGGAAAAAGCTACGGTCTAGCACTGAGCTCCATCCAGATCTCCTCACAGACTGCCT
CGCTGTGCAGCCCCTGCAGCCAGCCACGTCCCCTGGAGATGCTGCTGATCATACCGTGGGGCACTCCCCA
GGGCCGGGGCCTGGGCCAGGGCCTGGGGCTGAACTCTATTCAGCTCCCATTTTCGCCAGCAATCATTCAA
CTCGAAGTGGAACAGCTGCTGGGGCTGGGCCACCCCCACATCCTGTCAGTCACCCTTCTCCAGGACATAA
TGTACAGGGGAGCCCCCACAACCCCTCCTCCCAGTTACCTCCACTCACAGCTGTGGACGCAGGCGCTGAG
AGGTTTGCACCTCCGACTCCATCTCCTCACCACATCAGCCCGGGAAGAGTTCCAGCTCCTCCGTCACTGC
TCCAGAGAGCACAGGCTCCCCACTCCCAGCAGCCACCAGGCTCACTCCTGAAGCCCTACCAGCCAGAAAC
CAACTCTTCTTTTCAGCCAAATGGTATCCATGTCCACGGATTTTATGGCCAGCTGCAGACATTCTGTCCC
CCGCATTATCCTGATTCCCAAAGAACTGTGCCACCCAGCGGCTCCTGCAGTATGGTGCCTTCCTTTGAGG
ACTGCCTGGTCCCCACGTCCATGGGTCAAGCCGGTTTTGATGTTTTCCACAGAGCCTTCTCAACACACTC
AGGCATCACAGTGTACGATTTGCCTTCAGCTTCCTCAAGCCTCTTTGGGGAATCTCTTCGCAGTGGCCCT
GAAGACCCCACGTTCTTGCAGCTCAGTGCTGTGGACCGCTGTCCTAGCCAGCTCTCCTCTGTGTATACCG
AAGGCTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_175459
Insert Size:	2808 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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
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_175459.6, NP_780668.3
RefSeq Size:	7524 bp
RefSeq ORF:	2808 bp
Locus ID:	226075
Cytogenetics:	19 C1
Gene Summary:	This gene is a member of the GLI-similar zinc finger protein family and encodes a nuclear protein which contains multiple C2H2-type zinc finger domains. This protein functions as both a repressor and activator of transcription and is specifically involved in the transcriptional regulation of insulin. It is thought to enhance GLI-RE-dependent transcription by binding to the GLI-RE consensus sequence (GACCACCCAC). Mutations in a similar gene in human have been associated with neonatal diabetes and congenital hypothyroidism (NDH). Alternatively spliced transcript variants have been identified. [provided by RefSeq, Mar 2015] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).