

# Recombinant Full Length Mouse GLI1 Protein, His tagged

**Cat. No.** GLI1-6401M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Recombinant Full Length Mouse GLI1 Protein with His tag was expressed in Insect Cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>ProteinLength</b>    | 1-1111 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | Enables several functions, including DNA-binding transcription factor activity, RNA polymerase II-specific; RNA polymerase II cis-regulatory region sequence-specific DNA binding activity; and microtubule binding activity. Involved in positive regulation of DNA-templated transcription and regulation of osteoblast differentiation. Acts upstream of or within several processes, including central nervous system development; liver regeneration; and regionalization. Located in axoneme and nucleus. Is expressed in several structures, including alimentary system; central nervous system; embryo mesenchyme; long bone; and sensory organ. Human ortholog(s) of this gene implicated in gallbladder cancer and preaxial polydactyly I. Orthologous to human GLI1 (GLI family zinc finger 1). |
| <b>Molecular Mass</b>   | 120 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>AASequence</b>       | MFNPMTTPPQVNSYSEPCCLRPLHSQGVPSMGTEGLSGLPFCHQANFMSGSQGYG<br>AARETSSCTEGSLFPPPPPPRSSVKLTKKRALSISPLSDASLDLQTVIRTSPSSLVAFI<br>NSRCTSPGGSYGHLSIGTMSPSLGFPPQMSHQKGTSPPYGVQPCVPHDSTRGSM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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MLHPQSRGPRATCQLKSELDMMVGKCPEDPLEGDMSSPNSTGTQDHLLGMLDGR  
EDLEREEKPEPESVYETDCRWDGCSQEFDSEQLVHHINSEHIHGERKEFVCHWG  
GCSRELRPFKAQYMLVVHMRRHTGEKPHKCTFEGCRKSYSRLENLKTHLRSHTGE  
KPYMCEQEGCSKAFSNASDRAKHQNRTHSNEKPYVCKLPGCTKRYTDPSSLRKHV  
KTVHGPDAHVTKRHRGDGPLPRAQPLSTVEPKREREGGSGREESRLTVPESAMPQ  
QSPGAQSSCSSDHSPAGSAANTDSGVEMAGNAGGSTEDLSSLDEGPCVSATGLST  
LRRLENLRDLQLHQLRPIGSRGLKLPSLTHAGAPVSRRLGPPVSLDRSSSSSSSMSS  
AYTVSRSSSLASFPFGTPPENGAASSLPGLTPAQHYMLRARYASARGSGTPPTAAH  
SLDRMGGLSVPPWRSRTEYPGYNPNAVTRRASDPARAADHPAPARVQRFKSLG  
CVHTPPSVATGRNFDPHHPTSVYSPQPPSITENVAMDTRGLQEEPEVGTSMGNG  
LNPYMDFSSTDITLGYGGPEGTAAPYEAARGPGSLPLGPGPPTNYGPGHCAQQVSY  
PDPTPENWGEFFSHAGVYPSNKAAGAAYSQCPRLEHYGQVQVKPEQGCPVGSDS  
TGLAPCLNAHPSEGSPGPQPLFSHHPQLPQPYPQSGPYPPHGYLSTEPRLGL  
NFPSSSHSTGQLKAQLVCNYVQSQQELLWEGNRNRGGLPNQELPYQSPKFLGGS  
QVSQSPAKTPAAAAAYGSGFAPASANKSGSYAPSPCHETFTVGVNRPSPHRPA  
APRLLPPLSPCYGPLKVGDTNPSCGHPEVGRGLGAGPALYPPPEGQVCNALDSL  
DNTQLDFVAILDEAQLSPPLSHEQGDSSKNTPSPSGPPNMAVGNMSVLLGSLPGE  
TQFLNSSAHHHHHHHHHH

|                       |                                                                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | <1EU/μg by LAL                                                                                                                                                      |
| <b>Purity</b>         | >80% by SDS-PAGE                                                                                                                                                    |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Sterile PBS, pH7.4, 10% Glycerol                                                                                                                                    |
| <b>Concentration</b>  | 0.27 mg/mL by BCA                                                                                                                                                   |

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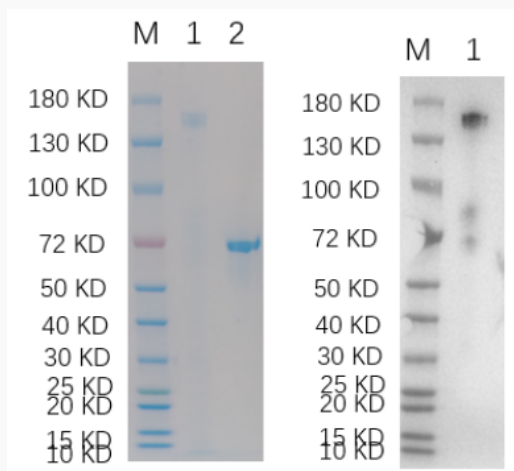
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## GENE INFORMATION

|                        |                                                                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Gli1 GLI-Kruppel family member GLI1 [ <i>Mus musculus</i> (house mouse) ]                                                                        |
| <b>Official Symbol</b> | <a href="#">Gli1</a>                                                                                                                             |
| <b>Synonyms</b>        | GLI1; GLI-Kruppel family member GLI1; zinc finger protein GLI1; zinc finger protein 5; glioma-associated oncogene homolog; Zfp5; Zfp-5; AV235269 |
| <b>Gene ID</b>         | <a href="#">14632</a>                                                                                                                            |
| <b>mRNA Refseq</b>     | <a href="#">NM_010296</a>                                                                                                                        |
| <b>Protein Refseq</b>  | <a href="#">NP_034426</a>                                                                                                                        |
| <b>UniProt ID</b>      | <a href="#">P47806</a>                                                                                                                           |

### SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal Antibody) analysis profiles of purified Gli1. 1. Gli1: 1 µg 2. BSA: 1 µg

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