

Product datasheet for **SC125780**

GLI1 (NM_005269) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: GLI1 (NM_005269) Human Untagged Clone
Tag: Tag Free
Symbol: GLI1
Synonyms: GLI; PAPA8; PPD1
Mammalian Cell Selection: None
Vector: [pCMV6-XL5](#)
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_005269 edited
 CCCAGACAGAGTGTCCCCACACCCTCCTCTGAGACGCCATGTTCAACTCGATGACCCAC
 ACCAATCAGTAGCTATGGCGAGCCCTGCTGTCTCCGGCCCTCCCCAGTCAGGGGGCC
 CCAGTGTGGGGACAGAAGGACTGTCTGGCCCGCCCTTCTGCCACCAAGCTAACCTCATGT
 CCGGCCCCACAGTTATGGGCCAGCCAGAGACCAACAGCTGCACCGAGGGCCCACTCT
 TTTCTTCTCCCCGGAGTGCAGTCAAGTTGACCAAGAAGCGGGCACTGTCCATCTCACCTC
 TGTCGGATGCCAGCCTGGACCTGCAGACGGTTATCCGCACCTCACCCAGCTCCCTCGTAG
 CTTTCATCAACTCGCGATGCACATCTCCAGGAGGCTCCTACGGTCATCTCTCCATTGGCA
 CCATGAGCCCATCTCTGGGATCCCAGCCAGATGAATCACAAAAAGGGCCCTCGCCTT
 CCTTTGGGGTCCAGCCTTGTGGTCCCCATGACTCTGCCGGGGTGGGATGATCCACATC
 CTCAGTCCCGGGACCCCTCCCAACTTGCCAGCTGAAGTCTGAGCTGGACATGCTGGTTG
 GCAAGTGCCGGGAGGAACCCCTTGAAGGTGATATGTCCAGCCCAACTCCACAGGCATAC
 AGGATCCCTGTTGGGATGCTGGATGGGCGGGAGGACCTCGAGAGAGAGAGAAGCGTG
 AGCCTGAATCTGTGTATGAACTGACTGCCGTTGGGATGGCTGCAGCCAGGAATTTGACT
 CCCAAGAGCAGCTGGTGCACCACATCAACAGCGAGCACATCCACGGGGAGCGGAAGGAGT
 TCGTGTGCCACTGGGGGGCTGCTCCAGGGAGCTGAGGCCCTTCAAAGCCAGTACATGC
 TGGTGGTTCACATGCGCAGACACACTGGCGAGAAGCCACACAAGTGCACGTTTGAAGGTG
 GCCGGAAGTCATACTACGCCTCGAAAACCTGAAGACGCACCTGCGGTTCACACACGGGTG
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 GAGCCAAGCACCAGAATCGGACCCATTCCAATGAGAAGCCGTATGTATGTAAGCTCCCTG
 GCTGCACCAAACGCTATACAGATCCTAGCTCGCTGCGAAAACATGTCAAGACAGTGCATG
 GTCCTGACGCCCATGTGACCAAACGGCACCGTGGGGATGGCCCCCTGCCTCGGGCACCAT
 CCATTTCTACAGTGGAGCCCAAGAGGGAGCGGGAAGGAGTCCCATCAGGGAGGAAAGCA
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 CTGGCACTGGTCTGTCCACTCTCGCCGCTTGAAGACCTCAGGCTGGACCAGCTACATC



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AACTCCGGCCAATAGGGACCCGGGGTCTCAAAGTGCCAGCTTGTCCACACCGGTACCA
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GCATCAGCTCTGCCTATACTGTGACCCGCGCTCCTCCCTGGCCTCTCCTTTCCCCCTG
GCTCCCCACCAGAGAATGGAGCATCCTCCCTGCCTGGCCTTATGCCTGCCAGCACTACC
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GCCTGGATCGGATAGGTGGTCTTCCCATGCCTCCTTGGAGAAGCCGAGCCGAGTATCCAG
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CTCCCGAAGGACAGGTATGTAACCCCTGGACTCTTTGATCTTGACAACACTCAGCTGG
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GGGGCAGCTCTGGACATACCCACCTCCCTCTGGGCCCCCAACATGGCTGTGGCAACA
TGAGTGTCTTACTGAGATCCCTACCTGGGAAACAGAATTCCTCAACTCTAGTGCCTAAA
GAGTAGGGAATCTCATCCATCACAGATCGCATTTCTAAGGGTTTCTATCCTTCCAGAA
AAATTGGGGAGCTGAGTCCCCTGCACAAGATGCCCCAGGGATGGGAGGTATGGGCTGG
GGGCTATGTATAGTCTGTATACGTTTTGAGGAGAAATTTGATAATGACACTGTTTCTGA
TAATAAGGAACTGCATCAGAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005269 unedited
NNGGGTTCAAAATTGTATACGACTCATATAGGCGGACCGGAATTCGCACGAGGCCCAGA
CAGAGTGTCCCCACACCCTCCTCTGAGACGCCATGTTCAACTCGATGACCCACCAACAA
TCAGTAGCTATGGCGAGCCCTGTGTCTCCGGCCCTCCCAGTCAAGGGGCCCCAGTG
TGGGGACAGAAGGACTGTCTGGCCCGCCCTTCTGCCACCAAGCTAACCTCATGTCCGGCC
CCCACAGTTATGGGCCAGCCAGAGACCAACAGCTGCACCGAGGGCCCACTCTTTTCTT
CTCCCCGAGTGCAGTCAAGTTGACCAAGAAGCGGGCACTGTCCATCTCACCTCTGTGCG
ATGCCAGCCTGGACCTGCAGACGGTTATCCGCACCTCACCCAGCTCCCTCGTAGCTTTCA
TCAACTCGCGATGCACATCTCCAGGAGGCTCCTACGGTCACTCTCCATTGGCACCATGA
GCCCATCTCTGGATTCCCAGCCAGATGAATCACCAAAAAGGGCCCTCGCCTTCTTTG
GGTCCAGCCTTGTGGTCCCCATGACTCTGCCCGGGGTGGGATGATCCACATCCTCAGT
CCCGGGGACCCTTCCCAACTTGCCAGCTGAAGTCTGAGCTGGACATGCTGGTTGGCAAGT
GCCGGGAGGAACCTTGAAGGTGATATGTCCAGCCCAACTCCACAGGCATACAGGATC
CCCTGTTGNGGATGCTGGATGGGCGGGAGGACCTCGAGAGAGAGGAAAGCGTGAGCTGA
ATCTGTGTATGAAACTGACTGCCGTTGGGATGGCTGCAGCCAGGAATTTGACTCCCAAGA
CAGCTGGTGCACCACATCAACAGCGAGCACATCCACGGNGAGCGGAAGGAGA
    
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Restriction Sites:

NotI-NotI

ACCN:	NM_005269
Insert Size:	3600 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005269.1 , NP_005260.1
RefSeq Size:	3600 bp
RefSeq ORF:	3321 bp
Locus ID:	2735
UniProt ID:	P08151
Cytogenetics:	12q13.3
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transcription Factors
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer

Gene Summary:

This gene encodes a member of the Kruppel family of zinc finger proteins. The encoded transcription factor is activated by the sonic hedgehog signal transduction cascade and regulates stem cell proliferation. The activity and nuclear localization of this protein is negatively regulated by p53 in an inhibitory loop. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2009]
Transcript Variant: This variant (1) encodes the full length protein (isoform 1).