

Product datasheet for **SC327684**

GLI1 (NM_001160045) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLI1 (NM_001160045) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLI1
Synonyms:	GLI; PAPA8; PPD1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC327684 sequence for NM_001160045 edited (data generated by NextGen Sequencing)

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ATGAGCCCATCTCTGGGATTCCCAGCCAGATGAATCACAAAAAGGCCCTCGCCTTCTTTGGGGTCC
AGCCTTGTGGTCCCCATGACTCTGCCCGGGTGGGATGATCCCACATCCTCAGTCCCGGGGACCCTTCCC
AACTTGCAGCTGAAGTCTGAGCTGGACATGCTGGTTGGCAAGTCCCGGAGGAACCTTGAAGGTGAT
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GGGCAACATGAGTGTCTTACTGAGATCCCTACCTGGGGAACAGAATTCCTCAACTCTAGTGCCTAA
    
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Clone variation with respect to NM_001160045.1

Restriction Sites: Please inquire
ACCN: NM_001160045

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](#)

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001160045.1](#), [NP_001153517.1](#)

RefSeq Size: 3414 bp

RefSeq ORF: 2937 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) omits the first two coding exons, compared to variant 1, resulting in transcription initiation from an internal AUG site and a N-terminally truncated protein isoform (2), also know as GLI1DeltaN. This variant reflects the transcript and protein described by Shimokawa (PubMed ID 18378682).