

Product datasheet for **SC309064**

GLI3 (NM_000168) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLI3 (NM_000168) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLI3
Synonyms:	ACLS; GCPS; GLI3-190; GLI3FL; PAP-A; PAPA; PAPA1; PAPB; PHS; PPDIV
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_000168 edited
 ATGGAGGCCAGTCCCACAGCTCCAGCACTGAAAAGAAAAAGTTGAGAATTCCATA
 GTGAAGTGTCTCCACTCGAACAGATGTGAGCGAGAAAGCCGTTGCCTCCAGCACCCTTCT
 AATGAGGATGAAAGTCTCGACAGACTTATCACAGAGAGAGAAGAAACGCAATCACTATG
 CAGCCACAGAATGTCCAGGGGCTCAGCAAAGTCAGTGAGGAACCTTCAACATCGAGTGAC
 GAGAGGGCCTCATTGATCAAGAAAGAGATCCATGGGTCCCTGCCACACGTGGCGGAGCCC
 TCTGTGCCGTACCGGGGACGGTGTGGCCATGGACCCAGGAATGGTTACATGGAGCCC
 CACTACCACCCTCCTCATCTTTCCCTGCCTTCCATCCTCCTGTACCAATTGATGCCAGA
 CATCATGAGGGCCGTTACCATTACGATCCATCTCCGATTCTCCATTGCATATGACTTCC
 GCCTTATCTAGTAGCCCTACGTATCCGGACCTGCCCTTATTAGGATCTCCACACCCGG
 AACCCCGCTGCTGCTTCCGAGTCTCCCTTCAGCCCTCCACATCCCTACATTAATCCCTAC
 ATGGACTATATCCGCTCCTTGCACAGCAGCCCATCGCTCTCCATGATCTCAGCAACCCGT
 GGGCTGAGCCCTACAGATGCGCCCATGCAAGGAGTCAGCCAGCAGAATACTATCATCAG
 ATGGCCCTGCTAACTGGCCAGCGCAGCCCTATGCAGACATTATCCCTCAGCTGCCACC
 GCCGGCACGGGGCCATCCACATGGAATATCTTCATGCTATGGATAGCACCAGATTCTCC
 AGCCCCAGGCTGTCAGCCAGGCCGAGCCGAAAACGTACTGTCCATATCACCCTCTCC
 GATCATAGCTTTGACCTCAGACCATGATAAGGACGTCTCCAACTCCTTGGTCACGATT
 CTCAATAATTCCCGTAGCAGCTCTTCAGCAAGTGGCTCCTATGGTCACTTATCTGCAAGT
 GCAATCAGCCCTGCCTTGAGCTTACCTACTCTTCGCGCCCGTCTCTCCACATGCAT
 CAGCAGATCCTAAGCCGACAACAGAGCTTAGGTTACGCTTTGGACACAGCCCTCCACTC
 ATCCACCCTGCCCAACTTTTCCAAACACAGAGGCTATTCCAGGGATCCCTACGGTTCTG
 AACCCCGTCCAGGTCAGCTCCGGCCCTTCTGAGTCTCACAGAACAAGCCACGAGTGAG
 TCTGCAGTGAGCAGCACTGGTGACCCGATGCACAACAAGAGGTCCAAGATCAAACCCGAT
 GAAGACCTCCCCAGCCAGGGGCTCGGGGGCAGCAGGAACAGCCGAAGGAACAACCCCTT
 GTCAAGGAGGAAGGGGACAAAGATGAAAGCAAACAGGAGCCTGAAGTCATCTATGAGACA
 AACTGCCACTGGGAAGGCTGCGGAGGGAGTTCGACACCCAAGAGCAGCTTGTGCACCAT
 ATAAATAACGACCATATTCATGGAGAGAAGAAGGAGTTCGTGTGAGGTGCTGGACTGC



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TCAAGAGAGCAGAAACCCCTTCAAAGCCAGTATATGTTGGTAGTGCATATGAGAAGACAC
 ACGGGCGAGAAGCCTCACAAATGCACTTTTGAAGGTTGCACAAAGGCCTACTCGAGACTA
 GAAAACCTGAAAACACACTTGAGATCTCACACTGGAGAGAAACCATACGTCTGTGAGCAC
 GAAGGTTGCAACAAGGCTTTCTCAAATGCCTCTGATCGCGCCAAACACAAAAACAGAAGC
 CATTCCAATGAGAAACCATATGTGTGCAAAATCCCAGGCTGCACTAAGCGTTACACAGAC
 CCAAGCTCCCTCCGAAACATGTGAAGACAGTGCATGGCCAGAGGCTCATGTCACCAAG
 AAGCAGGAGGGGACATCCATCCTCGGCCGCCACCCCGAGAGATTCCGGCAGCCATTCA
 CAGTCCAGGTGCTGGCCGACCGACTCAGGGAGCCCTTGGTGAGCAGCAGGACCTCAGC
 AACACTACCTCAAAGCGGGAAGAATGCCTCCAGGTGAAAACCGTCAAGGCAGAGAAGCCA
 ATGACATCTCAGCCAAGCCCTGGTGGTCAGTCTTTCATGCAGCAGCCAACAGTCCCCATC
 AGCAACTATTCCAACAGTGGGCTCGAGCTTCTCTGACCGATGGAGGTAGTATAGGAGAC
 CTCAGTGCATCGATGAAACCCCAATCATGGACTCAACCATTTCCACTGCAACCACAGCC
 CTTGCTTTGCAAGCCAGGAGAAACCCGGCAGGGACCAATGGATGGAGCACGTAATACTA
 GAAAGGCTAAAACAAGTGAATGGAATGTTTCCGCGACTGAACCCATTCTACCCCTAAA
 GCCCTGCGGTCTCTCTCATAGGAAATGGCACACAGTCCAACAACACCTGCAGCTTG
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 CTCACGCCCGCCAGCAGTACCGCCTCAAGGCCAAGTACGCGGCTGCCACAGGAGGGCCG
 CCGCCGACGCCCTGCCAACATGGAGAGGATGAGCCTGAAGACGCGCCTGGCGTGCTC
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 GACGGGGAGCCACGGCTACGGGCGGCCACCTGCAGCCGCACGATGCGCTGGGCCAC
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 AAGCGCAGTCTCGTGCTCAGAATTACACGCGGCCGAGGGCGGCCAGTCCCGAACTTC
 CACTCGTCCCCCTGTCTCCAGCATCACCGAGAACGTACCCTGGAGTCCCTGACCATG
 GACGCTGATGCCAACCTGAACGATGAGGATTTCTGCCGACGACGTGGTGCAGTATTTA
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 AAAGTGCCCCACGGGCCGGTGACTTTGACGCGCCGGGTGCCAGACAGCCACGCTGGC
 CAGCAGTTCCATGCCCTCGAGCAGCCCTGCCCGAGGGCAGAAAACCGACCTGCCATT
 CAGTGGAAACGAAGTCAGCTCCGGAAGCGCCGACCTGTCTCTCCAAGCTCAAGTGTGGG
 CCGCGGCCGCTGTGCCGAGACTCGCGCCTTTGGGTTCTGCAACGGCATGGTCTGCCAC
 CCGCAGAACCCCTTGAGGAGCGGGCCTGCTGGGGCTATCAGACCCTCGGGGAGAACAGC
 AACCCCTACGGTGGCCAGAGCACTTGATGCTCCACAACAGCCCCGGAAGTGGCACCAGT
 GGAAACGCCTTCCATGAACAGCCCTGTAAGGCCCGCAGTATGGGAAGTGTCTAACAGG
 CAGCCAGTGGCCCTGGTGCCTCGACGGTGCCTGTGGTGCCGGGATTCAAGCCTCAAAG
 CTGAAGAGCACCCCATGCAAGGGAGCGGGGCCAGCTGAATTTCCGCTGCCCGTAGCG
 CCAAATGAGTCAGCTGGCAGCATGGTGAATGGCATGCAGAACCAGGACCCAGTGGGACAG
 GGGTACCTGGCTCACCAGCTCCTCGCGACAGCATGCAGCACCCGGGGGAGGCCGCCCC
 GGTGAGCAGATGCTTGGGAGATTAGTGCTACCTCACACATCAACATCTACCAAGGGCCA
 GAGAGCTGCCTGCCAGGGGCTCACGGCATGGGCAGCCAGCCGTAAGCTTGGCAGTTGTC
 AGGGGCTACCAGCATGTGCCAGCTTTGGGGGACGAGGCCAGGCTATGCCGAGGGAC
 AGCCTTGCTGTCAGTACGACAGCTCAGTGACACAAGTACAGCCTGCAGGGTGAATGGT
 ATCAAGATGGAGATGAAAGGGCAGCCCCATCCGCTGTGCTCTAATCTGCAGAATTACTCT
 GGTGAGTTCTATGACAAACCGTGGGCTTCAAGTACGCAAGACACGAAAGCTGGTTCACTC
 TCTATTTAGACGCCAGCTGCCTGCTACAGGGGACAGCGCCAAAACCTGAGTTACTT
 TCCCCAGGTGCTAATCAGGTGACAAGCACAGTGGACAGCCTCGACAGCCATGACCTGGAA
 GGGGTACAGATTGACTTCGATGCCATCATAGACGATGGGGACCACTCCAGCCTGATGTCG
 GGGGCCCTGAGCCCAAGTATCATTGAGAACCTTTCCATAGCTCCTCCCGCCTACCACG
 CCTCGGGCGTCCCTCCATTCCAGCGCTGTCCATGAGCACCACCAACATGGCTATCGGG

GACATGAGTTCTTTGCTGACCTCCCTAGCGGAAGAAAGCAAATTCCTTGCA GTTATGCAA
TAG

Restriction Sites:	Please inquire
ACCN:	NM_000168
Insert Size:	4800 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
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:	<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.
RefSeq:	NM_000168.2 , NP_000159.2
RefSeq Size:	5054 bp
RefSeq ORF:	4743 bp
Locus ID:	2737
UniProt ID:	P10071
Cytogenetics:	7p14.1
Domains:	zf-C2H2
Protein Families:	Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS

Protein Pathways:

Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer

Gene Summary:

This gene encodes a protein which belongs to the C2H2-type zinc finger proteins subclass of the Gli family. They are characterized as DNA-binding transcription factors and are mediators of Sonic hedgehog (Shh) signaling. The protein encoded by this gene localizes in the cytoplasm and activates patched Drosophila homolog (PTCH) gene expression. It is also thought to play a role during embryogenesis. Mutations in this gene have been associated with several diseases, including Greig cephalopolysyndactyly syndrome, Pallister-Hall syndrome, preaxial polydactyly type IV, and postaxial polydactyly types A1 and B. [provided by RefSeq, Jul 2008]