

Product datasheet for RC230639

GLI1 (NM_001167609) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GLI1 (NM_001167609) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: GLI1
Synonyms: GLI; PAPA8; PPD1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC230639 representing NM_001167609
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTTCAACTCGATGACCCACCACCAATCAGTAGCTATGGCGAGCCCTGCTGTCTCGGCCCTCCCA
 GTCAGGGGGCCCCAGTGTGGGGACAGAAGTCAAGTTGACCAAGAAGCGGGCACTGTCCATCTCACCTCT
 GTCGGATGCCAGCCTGGACCTGCAGACGGTTATCCGCACCTCACCCAGCTCCCTCGTAGCTTTCATCAAC
 TCGCGATGCACATCTCCAGGAGGCTCCTACGGTCACTCTCCATTGGCACCATGAGCCCATCTCTGGGAT
 TCCCAGCCAGATGAATCACAAAAAGGGCCCTCGCCTTCTTTGGGGTCCAGCCTTGTGGTCCCATGA
 CTCTGCCCGGGGTGGGATGATCCACATCCTCAGTCCCAGGGACCTTCCCAACTTGCCAGCTGAAGTCT
 GAGCTGGACATGCTGGTTGGCAAGTGCCGGGAGGAACCTTGAAGGTGATATGTCCAGCCCAACTCCA
 CAGGCATACAGGATCCCCTGTTGGGGATGCTGGATGGGCGGGAGGACCTCGAGAGAGAGGAGAAGCGTGA
 GCCTGAATCTGTGTATGAACTGACTGCCGTTGGGATGGCTGCAGCCAGGAATTTGACTCCCAAGAGCAG
 CTGGTGCACCACATCAACAGCGAGCACATCCACGGGAGCGGAAGGAGTTCGTGTGCCACTGGGGGGCT
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 CTGCGGTACACACGGGTGAGAAGCCATACATGTGTGAGCACGAGGGCTGCAAGTAAAGCCTTACGCAATG
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 CTGCACCAAACGCTATACAGATCCTAGCTCGTGCAGAAAACATGTCAAGACAGTGCATGGTCTGACGCC
 CATGTGACCAAACGGCACCGTGGGGATGGCCCCCTGCCTCGGGCACCATCCATTTCTACAGTGGAGCCCA
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 GACAGTGGTGTGAAATGACTGGCAATGCAGGGGCGAGCACTGAAGACCTCTCCAGCTTGGACGAGGGAC
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 ACTCCGGCCAATAGGGACCCGGGTCTCAAAGTCCCAGCTTGTCCCACACCGGTACCACTGTGTCCCGC
 CGCGTGGGCCCCAGTCTCTTTGAACGCCGAGCAGCAGCTCCAGCAGCATCAGCTCTGCCTATACTG



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TCAGCCGCCGCTCCTCCCTGGCCTCTCCTTTCCCCCTGGCTCCCCACCAGAGAATGGAGCATCCTCCCT
 GCCTGGCCTTATGCCTGCCAGCACTACCTGCTTCGGGCAAGATATGCTTCAGCCAGAGGGGGTGGTACT
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 TCCTGCTCCAGCTAGAGTCCAGAGGTTCAAGAGCCTGGCTGTGTCCATACCCACCCACTGTGGCAGGG
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 GCTGTACCCAGGCCCCAAGGCTCTAGGTGGAACCTACAGCCAGTGTCTCGACTTGAACATTATGGACAA
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 GGTCTGCCTTGTACCTCCTCCGAAGGACAGGTATGTAACCCCTGGACTCTCTTGTCTTGACAACA
 CTCAGCTGGACTTTGTGGCTATTCTGGATGAGCCCCAGGGGCTGAGTCTCTCTTCCATGATCAGCG
 GGGCAGCTCTGGACATACCCACCTCCCTCTGGGCCCCCAACATGGCTGTGGCAACATGAGTGTCTTA
 CTGAGATCCCTACCTGGGAAACAGAATTCTCAACTCTAGTGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230639 representing NM_001167609
 Red=Cloning site Green=Tags(s)

MFNSMTPPPISSYGEPCCLRPLPSQGAPSVGTEVKLTKKRALSISPLSDASLDLQTVIRTSPLVAFIN
 SRCTSPGGSYGHLSIGTMSPSLGFPAQMNHQKGPSFSGVQPCGPHDSARGMIPHPQSRGPFPTCQLKS
 ELDMLVGKREEPLEGDMSSPNSTGIQDPLLGMLDGREDLEREEKREPESVYETDCRWDGCSQEFDSQEQ
 LVHHINSEHIHGERKEFVCHWGGCSRELRFKAQYMLVVMRRHTGEKPHKCTFEGCRKSYSRLENLKTH
 LRSHTGEKPYMCEHEGCSKAFSNASDRAKHQNRTHSNEKPYVCKLPGCTKRYTDPSSLRKHVKTVHGPD
 HVTKRHRGDGPLPRAPSI STVEPKREREGPIREESRLTVPEGAMKQPSPGAQSSSDHSPAGSAANT
 DSGVEMTGNAGGSTEDESSLDEGPCIAGTGLSTLRRLENLRDLQLHQLRPIGTRGLKLPSSLHTGTTVSR
 RVGPPVSLERRSSSSSSISSAYTVSRRSLASFPFGSPPENGASSLPGLMPAQHYLLRARYASARGGGT
 SPTAASSLDRIIGGLPMPWPWSRAEYPGYNPAGVTRRASDPAQAADRPAPARVQRFKSLGCVHTPPTVAG
 GGQNFDPYLPYVSPQPPSITENAAMDARGLQEEPEVGTSMVGSGLNPMDFPPTDTLGYGGPEGAAA
 PYGARGPGLPLGPPPTNYGPNPCPQQASYPDPTQETWGEFSPHSLYPGPKALGGTYSQCPRLEHYGQ
 VQVKPEQGCVPVSDSTGLAPCLNAHPSEGPPHPQPLF SHYPQSPPPQYLQSGPYTQPPDYLPSEPRPCL
 DFDSPTHSTGQLKAQLVCNYVQSQQELLWEGGGREDAPAEPSYQSPKFLGGSQVSPSRKAPVNTYGPQ
 FGNLPHKSGSYPTPSPCHENFVVGANRASHRAAAPRLLPPLPTCYGPLKVGGTNPSCGHPEVGRLLG
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 LRSLPGETEFLNSSA

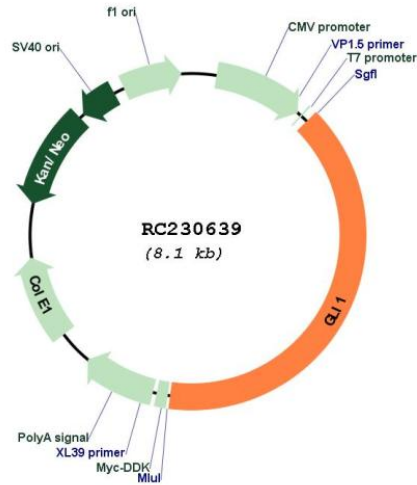
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001167609

ORF Size: 3195 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001167609.1 , NP_001161081.1
RefSeq ORF:	3198 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
MW:	114.1 kDa
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]