

Product datasheet for **RG230639**

GLI1 (NM_001167609) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLI1 (NM_001167609) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLI1
Synonyms:	GLI; PAPA8; PPD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG230639 representing NM_001167609 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTCAACTCGATGACCCACCACCAATCAGTAGCTATGGCGAGCCCTGCTGTCTCCGGCCCTCCCCA
GTCAGGGGGCCCCAGTGTGGGGACAGAAGTCAAGTTGACCAAGAAGCGGGCACTGTCCATCTCACCTCT
GTCGGATGCCAGCCTGGACCTGCAGACGGTTATCCGCACCTACCCAGCTCCCTCGTAGCTTTTCATCAAC
TCGGATGCACATCTCCAGGAGGCTCCTACGGTCACTCTCCATTGGCACCATGAGCCCATCTCTGGGAT
TCCCAGCCAGATGAATCACAAAAGGGCCCTCGCCTTCTTTGGGGTCCAGCCTTGTGGTCCCATGA
CTCTGCCCGGGTGGGATGATCCACATCCTCAGTCCCGGGACCTTCCAACCTTGCCAGCTGAAGTCT
GAGCTGGACATGCTGGTTGGCAAGTGCCGGGAGGAACCCTTGGAAGGTGATATGTCCAGCCCAACTCCA
CAGGCATACAGGATCCCTGTTGGGGATGCTGGATGGGCGGGAGGACCTCGAGAGAGAGGAGAAGCGTGA
GCCTGAATCTGTGTATGAAACTGACTGCCGTTGGGATGGCTGCAGCCAGGAATTTGACTCCCAAGAGCAG
CTGGTGCACCACATCAACAGCGAGCACATCCACGGGAGCGGAAGGAGTTCGTGTCCACTGGGGGGCT
GCTCCAGGGAGCTGAGGCCCTTCAAAGCCAGTACATGCTGGTGGTTCACATGCGCAGACACACTGGCGA
GAAGCCACACAAGTGCAGTTTGAAGGGTGCCGGAAGTCATACTCACGCCTCGAAAACCTGAAGACGCAC
CTGCGGTACACACGGGTGAGAAGCCATACATGTGTGAGCAGAGGGCTGCAGTAAAGCCTCAGCAATG
CCAGTGACCGAGCCAAGCACAGAATCGGACCCATTCCAATGAGAAGCCGTATGTATGTAAGCTCCCTGG
CTGCACCAAACGCTATACAGATCCTAGCTCGCTGCGAAAACATGTCAAGACAGTGCATGGTCTGACGCC
CATGTGACCAAACGGCACCGTGGGGATGGCCCCCTGCCTCGGGCACCATCCATTTCTACAGTGGAGCCCA
AGAGGGAGCGGGAAGGAGGTCCCATCAGGGAGGAAAGCAGACTGACTGTGCCAGAGGGTGCCATGAAGCC
ACAGCCAAAGCCCTGGGGCCAGTCATCCTGCAGCAGTACCCTCCCGGCAGGGAGTGCAGCCAATACA
GACAGTGGTGTGAAAATGACTGGCAATGCAGGGGGCAGCACTGAAGACCTCTCCAGCTTGGACGAGGGAC
CTTGCAATTGCTGGCACTGGTCTGTCCACTTTCGCGCCTTGAGAACCTCAGGCTGGACCAGCTACATCA
ACTCCGGCCAATAGGGACCCGGGTCTCAAACCTGCCAGCTTGTCCACACCGGTACCCTGTGTCCCGC



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CGCGTGGGCCCCAGTCTCTTGAACGCCGAGCAGAGCTCCAGCAGCATCAGCTCTGCCTATACTG
 TCAGCCGCGCTCCTCCCTGGCCTCTCCTTTCCCCCTGGCTCCCCACCAGAGAAATGGAGCATCCTCCCT
 GCCTGGCCTTATGCCTGCCAGCACTACCTGCTTCGGGCAAGATATGCTTCAGCCAGAGGGGGTGGTACT
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 TCCTGCTCCAGCTAGAGTCCAGAGGTTCAAGAGCCTGGGCTGTGTCCATACCCACCCACTGTGGCAGGG
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 ATGCTGCCATGGATGCTAGAGGGCTACAGGAAGGCCAGAAAGTTGGGACCTCCATGGTGGCAGTGGTCT
 GAACCCCTATATGGACTTCCACCTACTGATACTCTGGGATATGGGGACCTGAAGGGGACGAGCTGAG
 CCTATGGAGCGAGGGTCCAGGCTCTCTGCCTTGGGCTGGTCCACCACCAACTATGGCCCAACC
 CCTGTCCCAGCAGGCTCATATCCTGACCCACCAAGAAACATGGGGTGGTCCCTTCCCACTCTGG
 GCTGTACCCAGGCCCCAAGGCTCTAGGTGGAACCTACAGCCAGTGTCTCGACTTGAACATTATGGACAA
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 AACAGGAGCTACTGTGGGAGGGTGGGGGACGGGAAGATGCCCCGCCAGGAACCTTCTACCAGAGTCC
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 TTTGGACCAACTTGCCCAATCACAAGTCAAGTTCCTATCCCACCCCTTCCCATGCCATGAAAAATTTG
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 CTATGGGCTCTCAAAGTGGGAGGCACAAACCCAGCTGTGGTATCCTGAGGTGGGAGGCTAGGAGGG
 GGTCTGCCTGTACCTCCTCCGAAGGACAGGTATGTAACCCCTGGACTCTCTTGTCTTGACAACA
 CTCAGCTGGACTTTGTGGCTATTCTGGATGAGCCCCAGGGGCTGAGTCTCTCTCTCCATGATCAGCG
 GGGCAGCTCTGGACATACCCACCTCCTCTGGGCCCCCAACATGGCTGTGGGCAACATGAGTGTCTTA
 CTGAGATCCCTACCTGGGAAACAGAATTCTCAACTCTAGTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG230639 representing NM_001167609

Red=Cloning site Green=Tags(s)

MFNSMTPPPISSYGEPCCLRPLPSQGAPSVGTEVKLTKKRALSISPLSDASLDLQTVIRTSPSSLVAFIN
 SRCTSPGGSYGHLSIGTMSPSLGFPAQMNHQKGPSFVQPCGPHDSARGMIPHPQSRGPFPTCQLKS
 ELDMLVGKREEPLEGDMSSPNSTGIQDPLLGLMDGREDLEREEKREPESVYETDCRWDGCSQEFDSQEQ
 LVHHINSEHIHGERKEFVCHWGGCSRELRFKAQYMLVVMHRRHTGEKPHKCTFEGCRKSYSRLENLKTH
 LRSHTGEKPYMCEHEGCSKAFSNASDRAKHQNRTHSNEKPYVCKLPGCTKRYTDPSSLRKHVKTVHGPD
 HVTKRHRGDGPLPRAPSI STVEPKREREGPIREESRLTVPEGAMKQPSPGAQSSSDHSPAGSAANT
 DSGVEMTGNAGGSTEDLSSLDEGPCIAGTGLSTLRRLENLRDLQLHQLRPIGTRGLKLPSSLHTGTTVSR
 RVGPPVSLERRSSSSSISSAYTVSRRSLASFPFPPGSPENGASSLPGLMPAQHYLLRARYASARGGGT
 SPTAASSLDRIIGGLPMPWRSRAEYPGYNPAGVTRRASDPAQAADRPAPARVQRFKSLGCVHTPPTVAG
 GGQNFDPYLPYVSPQPPSITENAAMDARGLQEEPEVGTSMVGSGLNPMDFPPTDTLGYGGPEGAAAAE
 PYGARGPGLPLGPPPTNYGPNPCPQQASYPDPTQETWGEFSPHSLYPGPKALGGTYSQCPRLEHYGQ
 VQVKPEQGCVPVSDSTGLAPCLNAHPSEGPPHPQPLF SHYPQSPPPQYLQSGPYTQPPDYLPSEPRPCL
 DFDSPTHSTGQLKAQLVCNYVQSQQELLWEGGGREDAPAEPSYQSPKFLGGSQVSPSRKAPVNTYGPQ
 FGNLPHKSGSYPTPSPCHENFVVGANRASHRAAAPRLLPPLPTCYGPKLVGGTNPSCGHPEVGRLLG
 GPALYPPPEGQVCNPLDSLDDNTQLDFVAILDEPQGLSPPP SHDQRGSSGHTPPPSGPPNMAVGNMSVL
 LRSLPGETEFLNSSA

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja2555_h06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



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.

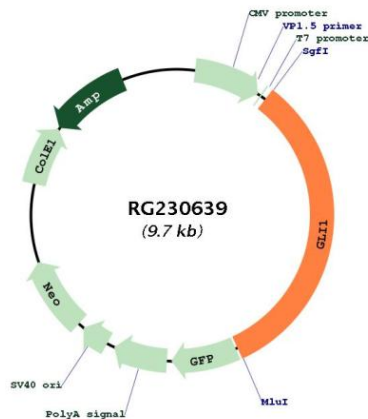
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

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 Size: 3483 bp
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
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]

Product images:



Circular map for RG230639