

Product datasheet for **RG223616**

GLIS2 (NM_032575) Human Tagged ORF Clone

Product data:

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|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | GLIS2 (NM_032575) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | GLIS2 |
| Synonyms: | NKL; NPHP7 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG223616 representing NM_032575
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCACTCCCTGGACGAGCCGCTCGACCTGAAGCTGAGTATCACCAAGCTCCGGGCGCAAGAGAGAAGC
 GGGAGAGGACGCTGGGTGTGGTCCGGCCCCGCTGCTCTGCACAGGAGCTGGGCCTGGTGGATGACAGCCC
 CACACCTGGCTCTCCAGGCTCCCGCCCTCAGGCTTCTGCTGAACTCCAAGTCCCGAGAAGGTGGAG
 GGACGCTTTTTCAGCAGCCCTCTCGTGGACCTCAGCCTGTACCACCATCTGGGCTGGACTCCCCAATG
 GCAGCAGCTCGTGTCCCCGAGCGCCAGGGCAACGGGGACCTGCCTCCAGTGCCAGTGCCTCGGACTT
 CCAGCCACTGCGCTATTTGGATGGTGTCCCGAGCTCCTTCCAGTCTTCTCGCCCTCGGCTCCGGGGG
 GCCCTGCACCTGCCTGCCTCCTCCTTACCCTCCCAAGGACAAGTGCCTCTGCCAGACCTGCCCC
 TGCCCAAGCAGCTGGTGTGTGCTGGGCAAGTGAACCAGCTCTTTGAGCTCCTGCAAGACCTGGTGG
 CCATGTCAACGATTACCATGTCAAGCCGAGAAGGATGCGGGTACTGCTGCCACTGGGAGGGCTGCGCC
 CGCATGGCCGAGTTTCAACGCCAGGTACAAGATGCTCATCCACATCCGCACACACACCAACGAGAAGC
 CACACCGTGTCCGACCTGCAGCAAGAGCTTCTCCCGCCTGGAGAACCTGAAGATCCACAACCGGTGCGA
 CACAGGTGAGAAGCCCTACGTCTGCCCTACGAGGGCTGCAACAAGCGCTATTCCAACCTCAGTGACCGC
 TTTAAGCACACGCGCACCCACTATGTGGACAAGCCCTACTACTGCAAGATGCCCGGCTGCCACAAGCGCT
 ACACGGACCCAGCTCACTGCGCAAGCAGTCAAGGCCCATGGCCACTTTGTGTCCCACGAGCAGCAAGA
 GCTCCTGCAGCTGCGCCACCCCAAGCCGCACTGCCCGCCCCGACGGCGGCCCTATGTAGTGGG
 GCCAGATCATCATCCCAACCCAGTGCCTCTTTGGAGGCCCTGGCCTGCCCGGCTTACCCTACCC
 TGCCCGCCGCCCCCTTGACCTCAGTGCCTGGCCTGTGGCAACGGTGGGGCAGTGGGGGTGGGGGGG
 CATGGGCCCTGGGCTGCCAGGCCCGTCCCTCAATCTGGCCAAGAACCCTGCTGCCCTCGCCC
 TTTGGGGCTGGCGGACTGGGCTTGCCTGTGGTCTCCCTCCTTGTGGCGAGCTGGTGGCAAGGCCGAGG
 GGGAGAAGGGGCGTGGTGGTGGCCACCAGGGCCCTGGGCATGGAGGGCCACAAGACGCCCTTAAAG
 GACGGAGAGCAGCTGCTCCCGCCAAGCCCGATGGACTCCCCCTGCTGCCAGGCACCGTGTGGACCTG
 TCCACGGGCGTCAACTCAGTGCAGCAGCCAGAGGCGTTGGCCCTGGCTGGTGGTGCATCCCGCCG
 GCTCGGTGCTGCTCAAACCGCTGTGGTGAAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG223616 representing NM_032575
 Red=Cloning site Green=Tags(s)

MHSLDEPLDLKLSITKLRAAREKRERTLGVVRPRALHRELGLVDDSPTPGSPGSPPSGFLNLSKFPEKVE
 GRFSAAPLVDLSLSPPSGLDSPNGSSLSPERQNGDLPPVPSASDFQPLRYLDGVPSSFQFFLPLGSGG
 ALHLPASSFLTPPKDKCLSPDLPLPKQLVCRWAKCNQLFELLQDLVDHVNDYHVKPEKDAGYCCHWEGCA
 RHGRGFNARYKMLIHIRTHTNEKPHRCPTCSKFSRLENLKIHNRSHTGEKPYVCPYEGCNKRYNSSSDR
 FKHTRTHYVDKPYCKMPGCHKRYTDPSSLRKHIKAHGHFVSHEQQELLQLRPPPKPPLPAPDGGPYVSG
 AQIIIPNPAALFGGPGPLPLPLAPGPLDLSALACGNGGGSGGGGMGPGPLPGPVLPNLAKNPLLPSF
 FGAGGLGLPVVSLLAGAAGGKAEGEKGRGSVPTRALGMEGHKTPLETTSSSRSPDGLPLLPGTVLDL
 STGVNSAASSPEALAPGWVIVPPGSVLLKPAVVN

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_032575

ORF Size: 1572 bp

OTI Disclaimer: 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_032575.3](#)

RefSeq Size: 3705 bp

RefSeq ORF: 1575 bp

Locus ID: 84662

UniProt ID: [Q9BZE0](#)

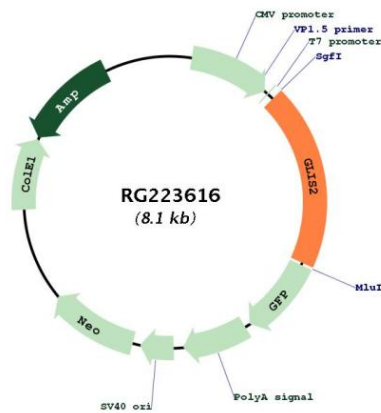
Cytogenetics: 16p13.3

Domains: zf-C2H2

Protein Families: ES Cell Differentiation/IPS

Gene Summary: This gene is a member of the GLI-similar zinc finger protein family and encodes a nuclear transcription factor with five C2H2-type zinc finger domains. The protein encoded by this gene is widely expressed at low levels in the neural tube and peripheral nervous system and likely promotes neuronal differentiation. It is abundantly expressed in the kidney and may have a role in the regulation of kidney morphogenesis. p120 regulates the expression level of this protein and induces the cleavage of this protein's C-terminal zinc finger domain. This protein also promotes the nuclear translocation of p120. Mutations in this gene cause nephronophthisis (NPHP), an autosomal recessive kidney disease characterized by tubular basement membrane disruption, interstitial lymphohistiocytic cell infiltration, and development of cysts at the corticomedullary border of the kidneys.[provided by RefSeq, Jan 2010]

Product images:



Circular map for RG223616