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Product datasheet for RG206232

GLIS3 (NM_152629) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GLIS3 (NM_152629) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GLIS3
Synonyms:	NDH; ZNF515
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG206232 representing NM_152629
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATGGTTCAGCGACTGGGACTCATTTCACCTCCAGCAAGCCAGGTCTCTACAGCATGCAACCAGATCA
GTCCTAGCTTACAGAGGGCAATGAATGCAGCCAACCTGAATATACCTCCTTCAGATACCAGGTCCCTTAT
TTCGCGTGAGTCTTTGGCGTCCACGACCTTGAGTCTGACGGAAAGTCAGTCGGCCTCAAGCATGAAGCAG
GAGTGGTCCCAGGGCTACAGGGCCCTCCCTTCGCTCTCCAACCACGGCTCTCAGAATGGCCTTGATCTAG
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CCTTTTTGGCACGGAAAGTAGCCACTCTCCTTACCCTAGTCCTCGGCACTCATCCACCAGGTCCCACTCG
GCCCGCTCCAAGAAGAGAGCGCTGTCCTTGTCCCCGCTGTCCGATGGCATCGGGATAGATTTCAATACCA
TCATCCGCACGTCGCCCACGTCCTTGGTGGCCTACATCAACGGGTCGAGGGCTTCGCCGGCCAACCTGTC
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CCCGGCAGCCAGAAGGGCGTGCTGGTGGCCCCTGGAGGCCTGGCGCTGCCGGCCTACGGCGAGGACGGGG
CCCTGGAGCACGAGCGCATGCAACAGCTGGAGCACGGCGGCCTGCAGCCAGGCCTGGTCAACCACATGGT
GGTGCAGCATGGCCTGCCGGGCCCCGACAGCCAGCCGGCCGGCCTGTTCAAGACCGAACGCCTGGAGGAG
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ATCCAGACCTGCTCACAGATTGCCTCACCGTGCAGTCCCTGCAGCCGGCCACTTCCCCTAGAGATGCTGC
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CGACTCACTCGGGCATTACAGTGTATGATTTACCTTCAAGTTCCTCGAGCCTCTTTGGGGAGTCTCTCCG
CAGCGGGGCTGAAGATGCTACCTTCTTGCAGATCAGCACCGTGGACCGCTGTCCTAGCCAGCTCTCCTCT
GTCTACACCGAAGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

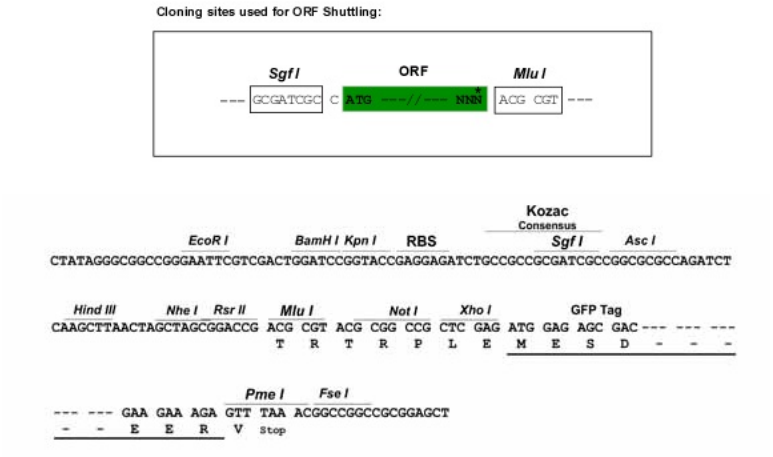
>RG206232 representing NM_152629
Red=Cloning site Green=Tags(s)

MMVQRLGLISPPASQVSTACNQISPSLQRAMNAANLNIPPSDTRSLISRESLASTTLSLTESQSASSMKQ
EWSQGYRALPSLSNHGSQNGLDLGDLLSLPPGTSMSSNSVSNSLPSYLFGTESSHSPYPSPRHSSTRSHS
ARSKKRALSLSPLSDGIGIDFNTIIRTSPTSLVAYINGSRASPANLSPQPEVYGHFLGVRGSCIPQPRPV
PGSQKGVLVAPGGLALPAYGEDGALEHERMQQLEHGGLQPGLVNHMVVQHGLPGPDSQPAGLFKTERLEE
FPGSTVDLPPAPPLPPLPPPQGPPPPYHAHAHLHHPELGPHAQQLALPQATLDDDGEMDGIGGKHCYRWI
DCSALYDQQEELVRHIEKVHIDQRKGEDFTCFWAGCPRRYKPFNARYKLLIHMRVHSGEKPNKCTFEGCE
KAFSRLENLKIHLRSHTGEKPYLCQHPGCQKAFSNSSDRAKHQRTHLDTKPYACQIPGCTKRYTDPSSLR
KHVKAHSSKEQQARKKLRSSTELHPDLLTDCLTVQSLQPATSPRDAAAEGTVGRSPGPGPDLYSAPIFSS
NYSSRSGTAAGAVPPPHPVSHPSPGHNVQGSPHNPSSQLPPLTAVDAGAERFAPSAPSPHHISPRRVPAP
SSILQRTQPPYTQQPSGSHLKSYQPETNSSFQPNGIHVHGFYGQLQKFCPPHYPDSQRIVPPVSSCSVVP
SFEDCLVPTSMGQASFDVFHRAFSTHSGITVYDLPSSSSSLFGESLRSGAEDATFLQISTVDRCPSQLSS
VYTEG

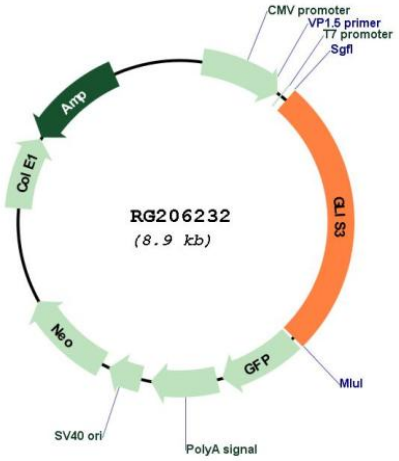
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_152629
ORF Size:	2325 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_152629.2, NP_689842.2
RefSeq Size:	6672 bp
RefSeq ORF:	2328 bp
Locus ID:	169792
UniProt ID:	Q8NEA6
Cytogenetics:	9p24.2

Gene Summary: This gene is a member of the GLI-similar zinc finger protein family and encodes a nuclear protein with five C2H2-type zinc finger domains. This protein functions as both a repressor and activator of transcription and is specifically involved in the development of pancreatic beta cells, the thyroid, eye, liver and kidney. Mutations in this gene have been associated with neonatal diabetes and congenital hypothyroidism (NDH). Alternatively spliced variants that encode different protein isoforms have been described but the full-length nature of only two have been determined. [provided by RefSeq, Jul 2008]