

Product datasheet for **RG206265**

Glutaminase (GLS) (NM_014905) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glutaminase (GLS) (NM_014905) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glutaminase
Synonyms:	AAD20; CASGID; DEE71; EIEE71; GAC; GAM; GDPAG; GLS1; KGA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206265 representing NM_014905
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGCGGCTGCGAGGCTCGGGATGCTGCGGGACCTGCTCCTGCGGTGCCCCGCGCGGTGAGCGCGA
 CTCTGCGGCGGGCACAGCCCTTGGTCACCCTGTGCCGGCGTCCCCGAGGCGGGGACGGCCGGCCGCGG
 CCCGGCTGCCGCGCGGACTCCACCCGTGGTGGGGCGGGGCGGCTGGCCGCGGAGCCCTCGCGCGG
 GGCTGTCCAGCTCTCCTTCGGAGATCTTGACAGGAGCTGGCAAGGGGAGCACGCATCCGCAGCCCGGG
 TGTGCCACCCGCTGCCCGGCGCGCCCGGCCCAAGGACGGCCCGGGGAGACGGACGCGTTTGGCAA
 CAGCGAGGGCAAAGAGCTGGTGGCTCAGGTGAAAATAAAATAAAACAGGGTCTGTTACCTAGCTTGAA
 GATTTGCTGTTCTATAACAATTGCTGAAGGACAAGAGAAAATACCTGTTCAAAATTTATTACAGCACTCA
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 TATATGAAAGTGCTAAAAGCAGTCTGGAGGAAAGGTTGCAGATTATTCCTCAACTGGCCAAATTCAG
 TCCCGATTTGTGGGGTGTGTCTGTTGTACAGTAGATGGACAGAGGCATTCTACTGGAGATACCAAAGTT
 CCCTTCTGTCTTCAGTCTGTGTAACCTTTGAAATATGCCATTGCTGTTAATGATCTTGGAACTGAAT
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 AATGCTGAAAAATTTGACTATGTCATGCAGTTTTTGAATAAGATGGCTGGTAATGAATATGTTGGATTCA
 GTAATGCAACGTTTCAGTCTGAAAGAGAAAGTGGAGATCGAAATTTTGAATAGGATATTACTTAAAAGA
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 CTTCTCAGGGCAGTTTGTCTTCCATGTTGGTCTTCTGCAAAATCTGGAGTTGTGGGGCATTCTTTTA
 GTTGTCCCAATGTTATGGGTATGATGTGCTGGTCTCCTCCTCTGGATAAGATGGCAACAGTGTAAAGG
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 AAAAAACTTGATCCTCGAAGAGAAGGTGGTATCAAAGGTAAGTCAGTGATAAATCTTTTGTGTTGCT
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 ATGATTCTAGAACAGCACTCCATGTAGCTGCTGCAGAGGGTCATGTTGAAGTTGTTAAATTTTGTGTTG
 AGCCTGCAAAGTAAACCTTTCCCAAGGACAGGTGGAATAACACTCCCATGGATGAAGCACTGCACTTT
 GGACACCATGATGATTTAAATTTCTCCAAGAATACCAAGTCCAGTACACACCTCAAGGAGATTCTGACA
 ACGGGAAGGAAAATCAAACAGTCCATAAGAATCTTGATGGATTGTTG

AG**GCGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

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_014905.2](#), [NP_055720.2](#)

RefSeq Size: 4799 bp

RefSeq ORF: 2010 bp

Locus ID: 2744

UniProt ID: [O94925](#)

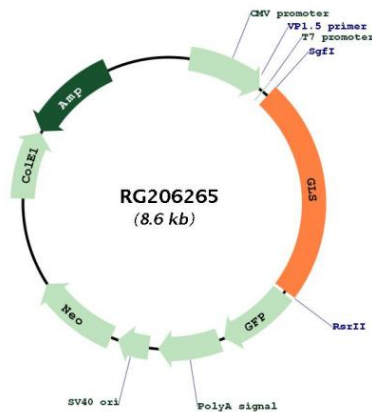
Cytogenetics: 2q32.2

Domains: ANK, Glutaminase

Protein Pathways: Alanine, aspartate and glutamate metabolism, Arginine and proline metabolism, D-Glutamine and D-glutamate metabolism, Metabolic pathways, Nitrogen metabolism

Gene Summary: This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG206265