

Product datasheet for **RG201109**

HAGH (NM_005326) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HAGH (NM_005326) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HAGH
Synonyms: GLO2; GLX2; GLXII; HAGH1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG201109 representing NM_005326
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGTGGGCCGAGGGCTGCTCGGCCCGCAGCCTCGCCGCGCTGGGAGCCGCTGCGCCCGCCGAG
GCCTCGGTCCAGCCCTGCTGGGAGTTTTCTGCCACACAGATTTGCGGAAGAACCTGACCGTGGACGAGGG
CACCATGAAGGTAGAGGTGCTGCCTGCCCTGACCGACAACATACATGTACCTGGTCATTGATGATGAGACC
AAGGAGGCTGCCATTGTGGATCCGGTGCAGCCCCAGAAGGTCGTGGACCGCGGAGAAAAGCACGGGGTGA
AACTGACCACAGTGTCTACCACCACCACCCTGGGACCATGCTGGCGGGAATGAGAAACTGGTCAAGCT
GGAGTCGGGACTGAAGGTGTACGGGGGTGACGACCGTATCGGGGCCCTGACTCACAAGATCACTCACCTG
TCCACACTGCAGGTGGGGTCTCTGAACGTCAAGTGCCTGGCGACCCCGTCCACACTTCAGGACACATTT
GTTACTTCGTGAGCAAGCCCGGAGGCTCGGAGCCCCCTGCCGTGTTACAGGTGACACCTTGTGGTGGC
TGGCTGCGGGAAGTTCTATGAAGGGACTGCGGATGAGATGTGTAAGCTCTGCTGGAGGTCTTGGGCCGG
CTCCCCCGGACACAAGAGTCTACTGTGGCCACGAGTACACCATCAACAACCTCAAGTTTGACGCCACG
TGGAGCCCGCAATGCCCCATCCGGGAGAAGCTGGCCTGGGCCAAGGAGAAGTACAGCATCGGGGAGCC
CACAGTGCCATCCACCCTGGCAGAGGAGTTTACCTACAACCCCTTCATGAGAGTGAGGGAGAAGACGGTG
CAGCAGCACGCAGGTGAGACGGACCCGGTGACCACCATGCGGGCCGTGCCAGGGAGAAGGACCAGTTCA
AGATGCCCCGGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201109 representing NM_005326
 Red=Cloning site Green=Tags(s)

MVVGRLGLGRRSLAALGAACARRGLGPALLGVFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDET
 KEAAIVDPVQPQKVVDAARKHGKVLTTVLTTHHHWDHAGGNEKLVKLESGLKVYGGDDRIGALTHKITHL
 STLQVGSNLNVKCLATPCHTSGHICYFVSKPGGSEPPAVFTGDTLFFVAGCGKFYEGTADEMCKALLEVLGR
 LPPDTRVYCGHEYTINNLK FARHVEPGNAIAREKLAWAKEKYSIGEPTVPSTLAEFTYNPFRVREKTV
 QQHAGETDPVTTMRAVRREKDDQFKMPRD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005326

ORF Size: 924 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_005326.6](#)

RefSeq Size: 1552 bp

RefSeq ORF: 927 bp

Locus ID: 3029

UniProt ID: [Q16775](#)

Cytogenetics: 16p13.3

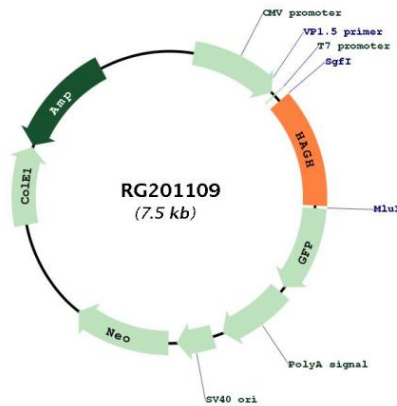
Domains: lactamase_B

Protein Families: Druggable Genome

Protein Pathways: Pyruvate metabolism

Gene Summary: The enzyme encoded by this gene is classified as a thiolesterase and is responsible for the hydrolysis of S-lactoyl-glutathione to reduced glutathione and D-lactate. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2013]

Product images:



Circular map for RG201109