

Product datasheet for **RG213599**

HAGH (NM_001040427) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAGH (NM_001040427) 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:	>RG213599 representing NM_001040427 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGTGGGCCGAGGGCTGCTCGGCCCGCAGCCTCGCCGCGCTGGGAGCCGCTGCGCCCGCCGAG
GCCTCGGTCCAGCCCTGCTGGGAGTTTTCTGCCACACAGATTTGCGGAAGAACCTGACCGTGGACGAGGG
CACCATGAAGGTAGAGGTGCTGCCTGCCCTGACCGACAACATACATGTACCTGGTCATTGATGATGAGACC
AAGGAGGCTGCCATTGTGGATCCGGTGCAGCCCCAGAAGGTCGTGGACCGCGGAGAAAGCACGGGGTGA
AACTGACCACAGTCTCACCACCACCACCCTGGGACCATGCTGGCGGGAATGAGAAACTGGTCAAGCT
GGAGTCGGGACTGAAGGTGTACGGGGGTGACGACCGTATCGGGGCCCTGACTCACAAGATCACTCACCTG
TCCACACTGCAGGTGGGGTCTCTGAACGTCAAGTGCCTGGCGACCCCGTCCACACTTCAGGACACATTT
GTTACTTCGTGAGCAAGCCCGGAGGCTCGGAGCCCCCTGCCGTGTTACAGGTGACACCTTGTGGTGGC
TGGCTGCGGGAAGTTCTATGAAGGGACTGCGGATGAGATGTGTAAGCTCTGCTGGAGGTCTTGGGCCGG
CTCCCCCGGACACAAGAGTCTACTGTGGCCACGAGTACACCATCAACAACCTCAAGTTTGACGCCACG
TGGAGCCCGCAATGCCCCATCCGGGAGAAGCTGGCCTGGGCCAAGGAGAAGTACAGCATCGGGGAGCC
CACAGTGCCATCCACCCTGGCAGAGGAGTTTACCTACAACCCCTTCATGAGAGTGAGGGAGAAGACGGTG
CAGCAGCACGCGAGGTGAGACGGACCCGGTGACCACCATGCGGGCCGTGCCAGGGAGAAGGACCAGTTCA
AGATGCCCCGGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG213599 representing NM_001040427
 Red=Cloning site Green=Tags(s)

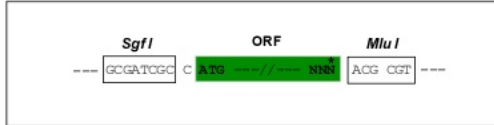
MVVG RGLLGRRSLAALGAACARRGLGPALLGVFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDET
 KEAAIVDPVQPQKVVDAAARKHGKVLTTVLTTTHHWDHAGGNEKLVKLESGLVKVGDDRIGALTHKITHL
 STLQVGS LNVKCLATPCHTSGHICYFVSKPGGSEPPAVFTGDTL FVAGCGKFYEGTADEMCKALLEVLGR
 LPPDTRVYCGHEY TINNLK FARHVEPGNAAI REKLAWAKEKYSIG EPTVPSTLAE EFTY NPFMRVREKTV
 QQHAGETDPVTTMRAVRREK DQFKMPRD

TRTRPLE - GFP Tag - V

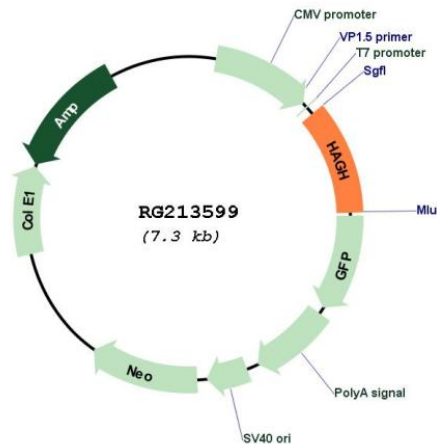
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001040427

ORF Size: 927 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_001040427.1](#), [NP_001035517.1](#)

RefSeq Size: 1648 bp

RefSeq ORF: 783 bp

Locus ID: 3029

UniProt ID: [Q16775](#)

Cytogenetics: 16p13.3

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]