

## Product datasheet for SC317462

### HAGH (NM\_005326) Human Untagged Clone

#### Product data:

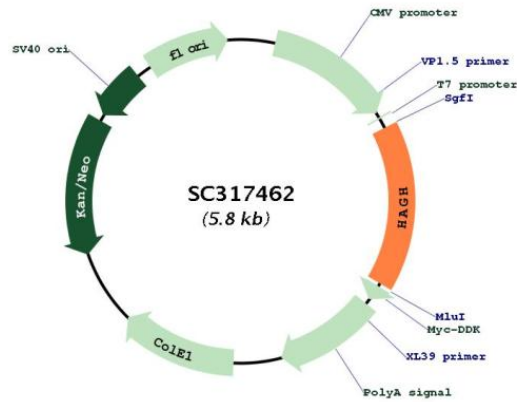
Product Type:	Expression Plasmids
Product Name:	HAGH (NM_005326) Human Untagged Clone
Tag:	Tag Free
Symbol:	HAGH
Synonyms:	GLO2; GLX2; GLXII; HAGH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC317462 representing NM_005326. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGTGGTGGGCCGAGGGCTGCTCGGCCGCCGACGCTCGCCGCGCTGGGAGCCGCTGCGCCCGCCGA
GGCCTCGGTCCAGCCCTGCTGGGAGTTTCTGCCACACAGATTTGCGGAAGAACCTGACCGTGGACGAG
GGCACCATGAAGGTAGAGGTGCTGCCTGCCCTGACCGACAACACATGTACCTGGTCATTGATGATGAG
ACCAAGGAGGCTGCCATTGTGGATCCGGTGCAGCCCCAGAAGTCTGGACGCGGCGAGAAAGCACGGG
GTGAAACTGACCACAGTCTCACCACCCACCACCTGGGACCATGCTGGCGGGAATGAGAACTGGTC
AAGCTGGAGTCGGGACTGAAGGTGTACGGGGTGACGACCGTATCGGGCCCTGACTCACAAGATCACT
CACCTGTCCACACTGCAGGTGGGTCTCTGAACGTCAAGTGCCTGGCGACCCCGTCCACACTTCAGGA
CACATTTGTTACTTCGTGAGCAAGCCCGGAGGCTCGGAGCCCCCTGCCGTGTTACAGGTGACACCTTG
TTTGTGGCTGGCTGCGGGAAGTTCTATGAAGGGACTGCGGATGAGATGTGTAAGCTCTGCTGGAGGTC
TTGGGCCGGCTCCCCCGGACACAAGAGTCTACTGTGGCCACGAGTACACCATCAACAACCTCAAGTTT
GCACGCCACGTGGAGCCCGCAATGCCGCCATCCGGGAGAAGCTGGCCTGGGCAAGGAGAAGTACAGC
ATCGGGGAGCCCACAGTGCCATCCACCTGGCAGAGGAGTTTACCTACAACCCCTCATGAGAGTGAGG
GAGAAGACGGTGCAGCAGCACGAGTGAGACGGACCCGGTGACCACCATGCGGGCCGTGCCAGGGAG
AAGGACCAGTTCAAGATGCCCGGGACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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**Plasmid Map:**


**ACCN:** NM\_005326

**Insert Size:** 927 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_005326.4](#)

**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  
**MW:** 33.8 kDa

**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]  
Transcript Variant: This variant (1) encodes a mitochondrially localized isoform (1). Translation may also initiate at a downstream in-frame ATG to encode the cytosolic form.