

Product datasheet for **SC310725**

HAGH (NM_001040427) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAGH (NM_001040427) 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:	>NCBI ORF sequence for NM_001040427, the custom clone sequence may differ by one or more nucleotides

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ATGAAGGTAGAGGTGCTGCCTGCCCTGACCGACAACACTACATGTACCTGGTCATTGATGATGAGACCAAGG
AGGCTGCCATTGTGGATCCGGTGCAGCCCCAGAAGGTCGTGGACGCGGCGAGAAAGCACGGGGTGAAACT
GACCACAGTGCTCACCACCCACCACCCTGGGACCATGCTGGCGGGAATGAGAACTGGTCAAGCTGGAG
TCGGGACTGAAGGTGTACGGGGTGACGACCGTATCGGGGCCCTGACTCACAAGTCACTCACCTGTCCA
CACTGCAGGTGGGGTCTCTGAACGTCAAGTGCCTGGCGACCCCGTCCACACTTCAGGACACATTTGTTA
CTTCGTGAGCAAGCCCGGAGGCTCGGAGCCCCCTGCCGTGTTACAGGTGACACCTTGTTTGTGGCTGCC
TGCGGGAAGTTCTATGAAGGGACTGCGGATGAGATGTGTAAGCTCTGCTGGAGGCTTTGGCCGGCTCC
CCCCGGACACAAGAGTCTACTGTGGCCACGAGTACACCATCAACAACCTCAAGTTTGACGCCACGTGGA
GCCCGGCAATGCCGCATCCGGGAGAAGCTGGCCTGGGCCAAGGAGAAGTACAGCATCGGGGAGCCACACA
GTGCCATCCACCCTGGCAGAGGAGTTTACCTACAACCCCTTCATGAGAGTGAGGGAGAAGACGGTGCAGC
AGCACGCAGGTGAGACGGACCCGGTGACCACCATGCGGGCCGTGCCAGGGAGAAGGACCAGTTCAAGAT
GCCCGGGACTGA
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Restriction Sites:	Please inquire
ACCN:	NM_001040427



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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 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_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]

Transcript Variant: This variant (2) includes an alternate exon in the 5' UTR and encodes the cytosolic protein isoform (2).