OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC213599

HAGH (NM_001040427) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAGH (NM_001040427) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HAGH
Synonyms:	GLO2; GLX2; GLXII; HAGH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC213599 representing NM_001040427
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGTAGAGGTGCTGCCTGCCCTGACCGACAACTACATGTACCTGGTCATTGATGATGAGACCAAGG
AGGCTGCCATTGTGGATCCGGTGCAGCCCCAGAAGGTCGTGGACGCGGCGAGAAAGCACGGGGTGAAACT
GACCACAGTGCTCACCACCCACCACCACTGGGACCATGCTGGCGGGAATGAGAAACTGGTCAAGCTGGAG
TCGGGACTGAAGGTGTACGGGGGTGACGACCGTATCGGGGCCCTGACTCACAAGATCACTCACCTGTCCA
CACTGCAGGTGGGGTCTCTGAACGTCAAGTGCCTGGCGACCCCGTGCCACACTTCAGGACACATTTGTTA
CTTCGTGAGCAAGCCCGGAGGCTCGGAGCCCCCTGCCGTGTTCACAGGTGACACCTTGTTTGTGGCTGGC
TGCGGGAAGTTCTATGAAGGGACTGCGGATGAGATGTGTAAAGCTCTGCTGGAGGTCTTGGGCCGGCTCC
CCCCGGACACAAGAGTCTACTGTGGCCACGAGTACACCATCAACAACCTCAAGTTTGCACGCCACGTGGA
GCCCGGCAATGCCGCCATCCGGGAGAAGCTGGCCTGGGCCAAGGAGAAGTACAGCATCGGGGAGCCCACA
GTGCCATCCACCCTGGCAGAGGAGTTTACCTACAACCCCTTCATGAGAGTGAGGGAGAAGACGGTGCAGC
AGCACGCAGGTGAGACGGACCCGGTGACCACCATGCGGGCCGTGCGCAGGGAGAAGGACCAGTTCAAGAT
GCCCCGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

View online »

Protein Sequence:

>RC213599 representing NM_001040427
Red=Cloning site Green=Tags(s)

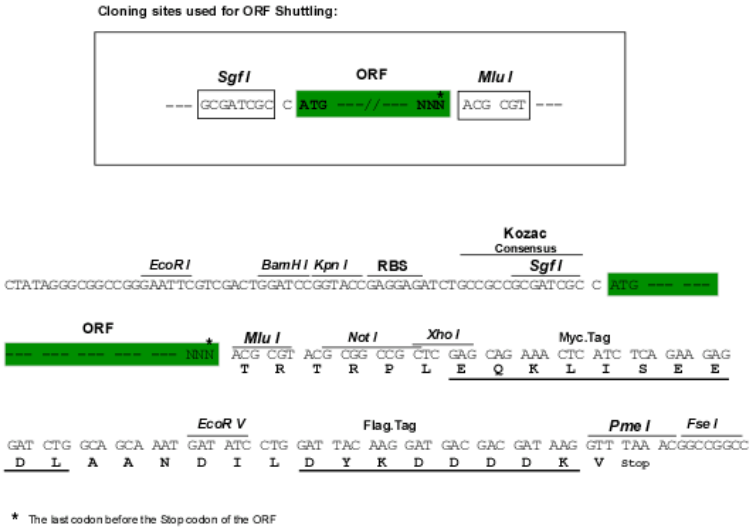
MKVEVLPALTDNYMYLVIDDETKEAAIVDPVQPQKVVDAARKHGVKLTTVLTTHHHWDHAGGNEKLVKLE
SGLKVYGGDDRIGALTHKITHLSTLQVGSLNVKCLATPCHTSGHICYFVSKPGGSEPPAVFTGDTLFVAG
CGKFYEGTADEMCKALLEVLGRLPPDTRVYCGHEYTINNLKFARHVEPGNAAIREKLAWAKEKYSIGEPT
VPSTLAEEFTYNPFMRVREKTVQQHAGETDPVTTMRAVRREKDQFKMPRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1512_a06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001040427

ORF Size: 780 bp

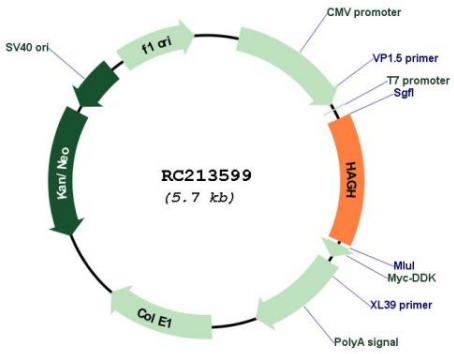
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA 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

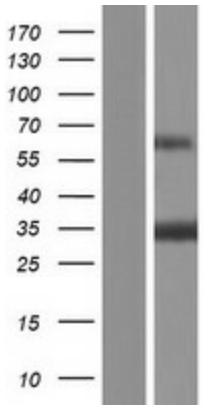
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001040427.2
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
MW:	28.9 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]

Product images:



Circular map for RC213599



Western blot validation of overexpression lysate (Cat# [LY421748]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213599 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).