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Product datasheet for RC201109

HAGH (NM_005326) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAGH (NM_005326) 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:

>RC201109 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGTGGGCCGAGGGCTGCTCGGCCGCCGCAGCCTCGCCGCGCTGGGAGCCGCCTGCGCCCGCCGAG
GCCTCGGTCCAGCCCTGCTGGGAGTTTTCTGCCACACAGATTTGCGGAAGAACCTGACCGTGGACGAGGG
CACCATGAAGGTAGAGGTGCTGCCTGCCCTGACCGACAACTACATGTACCTGGTCATTGATGATGAGACC
AAGGAGGCTGCCATTGTGGATCCGGTGCAGCCCCAGAAGGTCGTGGACGCGGCGAGAAAGCACGGGGTGA
AACTGACCACAGTGCTCACCACCCACCACCACTGGGACCATGCTGGCGGGAATGAGAAACTGGTCAAGCT
GGAGTCGGGACTGAAGGTGTACGGGGGTGACGACCGTATCGGGGCCCTGACTCACAAGATCACTCACCTG
TCCACACTGCAGGTGGGGTCTCTGAACGTCAAGTGCCTGGCGACCCCGTGCCACACTTCAGGACACATTT
GTTACTTCGTGAGCAAGCCCGGAGGCTCGGAGCCCCCTGCCGTGTTCACAGGTGACACCTTGTTTGTGGC
TGGCTGCGGGAAGTTCTATGAAGGGACTGCGGATGAGATGTGTAAAGCTCTGCTGGAGGTCTTGGGCCGG
CTCCCCCCGGACACAAGAGTCTACTGTGGCCACGAGTACACCATCAACAACCTCAAGTTTGCACGCCACG
TGGAGCCCGGCAATGCCGCCATCCGGGAGAAGCTGGCCTGGGCCAAGGAGAAGTACAGCATCGGGGAGCC
CACAGTGCCATCCACCCTGGCAGAGGAGTTTACCTACAACCCCTTCATGAGAGTGAGGGAGAAGACGGTG
CAGCAGCACGCAGGTGAGACGGACCCGGTGACCACCATGCGGGCCGTGCGCAGGGAGAAGGACCAGTTCA
AGATGCCCCGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC201109 protein sequence
Red=Cloning site Green=Tags(s)

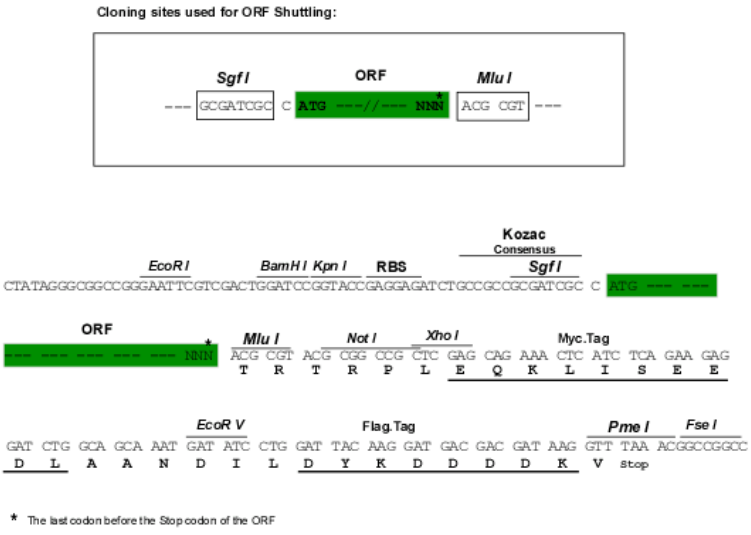
MVVGRGLLGRRSLAALGAACARRGLGPALLGVFCHTDLRKNLTVDEGTMKVEVLPALTDNYMYLVIDDET
KEAAIVDPVQPQKVVDAARKHGVKLTTVLTTHHHWDHAGGNEKLVKLESGLKVYGGDDRIGALTHKITHL
STLQVGSLNVKCLATPCHTSGHICYFVSKPGGSEPPAVFTGDTLFVAGCGKFYEGTADEMCKALLEVLGR
LPPDTRVYCGHEYTINNLKFARHVEPGNAAIREKLAWAKEKYSIGEPTVPSTLAEEFTYNPFMRVREKTV
QQHAGETDPVTTMRAVRREKDQFKMPRD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6403_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005326

ORF Size: 924 bp

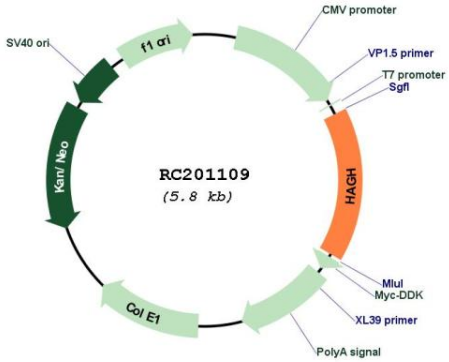
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

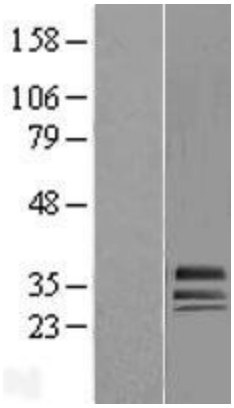
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
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
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]

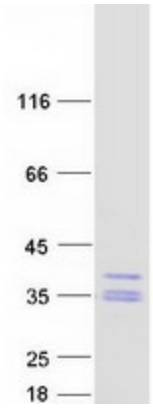
Product images:



Circular map for RC201109



Western blot validation of overexpression lysate (Cat# [LY417381]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201109 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HAGH protein (Cat# [TP301109]). The protein was produced from HEK293T cells transfected with HAGH cDNA clone (Cat# RC201109) using MegaTran 2.0 (Cat# [TT210002]).