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 RC203802

SIAH2 (NM_005067) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SIAH2 (NM_005067) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SIAH2
Synonyms:	hSiah2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC203802 representing NM_005067
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGCCGCCCGTCCTCCACCGGCCCCAGCGCTAATAAACCCTGCAGCAAGCAGCCGCCGCCGCAGCCCC
AGCACACTCCGTCCCCGGCTGCGCCCCCGGCCGCCGCCACCATCTCGGCTGCGGGCCCCGGCTCGTCCGC
GGTGCCCGCCGCGGCGGCGGTGATCTCGGGCCCCGGCGGCGGCGGCGGGGCCGGCCCGGTGTCCCCGCAG
CACCACGAGCTGACCTCGCTCTTCGAGTGTCCGGTCTGCTTTGACTATGTCCTGCCTCCTATTCTGCAGT
GCCAGGCCGGGCACCTGGTGTGTAACCAATGCCGCCAGAAGTTGAGCTGCTGCCCGACGTGCAGGGGCGC
CCTGACGCCCAGCATCAGGAACCTGGCTATGGAGAAGGTGGCCTCGGCAGTCCTGTTTCCCTGTAAGTAT
GCCACCACGGGCTGTTCCCTGACCCTGCACCATACGGAGAAACCAGAACATGAAGACATATGTGAATACC
GTCCCTACTCCTGCCCATGTCCTGGTGCTTCCTGCAAGTGGCAGGGGTCCCTGGAAGCTGTGATGTCCCA
TCTCATGCACGCCCACAAGAGCATTACCACCCTTCAGGGAGAAGACATCGTCTTTCTAGCTACAGACATT
AACTTGCCAGGGGCTGTCGACTGGGTGATGATGCAGTCATGTTTTGGCCATCACTTCATGCTGGTGCTGG
AGAAACAAGAGAAGTACGAAGGCCACCAGCAGTTTTTTGCCATCGTCCTGCTCATTGGCACCCGCAAGCA
AGCCGAGAACTTTGCCTACAGACTGGAGTTGAATGGGAACCGGCGGAGATTGACCTGGGAGGCCACGCCC
CGTTCGATTCATGACGGTGTGGCTGCGGCCATCATGAACAGCGACTGCCTTGTTTTCGACACAGCCATAG
CACATCTTTTTGCAGATAATGGGAACCTTGGAATCAATGTTACTATTTCTACATGTTGTCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC203802 representing NM_005067
Red=Cloning site Green=Tags(s)

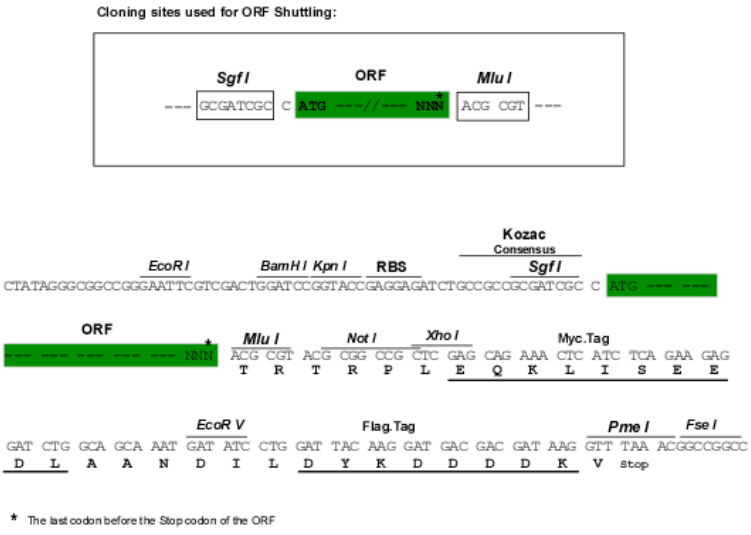
MSRPSSTGPSANKPCSKQPPPQPQHTPSPAAPPAAATISAAGPGSSAVPAAAAVISGPGGGGGAGPVSPQ
HHELTSLFECPVCFDYVLPPILQCQAGHLVCNQCRQKLSCCPTCRGALTPSIRNLAMEKVASAVLFPCKY
ATTGCSLTLHHTEKPEHEDICEYRPYSCPCPGASCKWQGSLEAVMSHLMHAHKSITTLQGEDIVFLATDI
NLPGAVDWVMMQSCFGHHFMLVLEKQEKYEGHQQFFAIVLLIGTRKQAENFAYRLELNGNRRRLTWEATP
RSIHDGVAAAIMNSDCLVFDTAIAHLFADNGNLGINVTISTCCP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2861_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005067

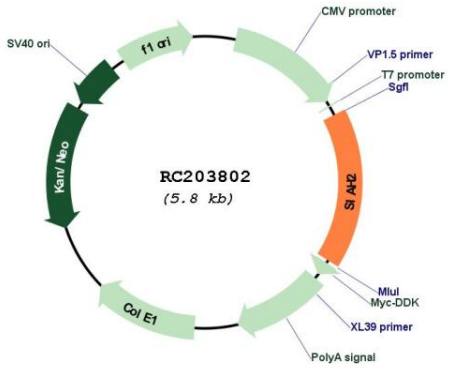
ORF Size: 972 bp

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.

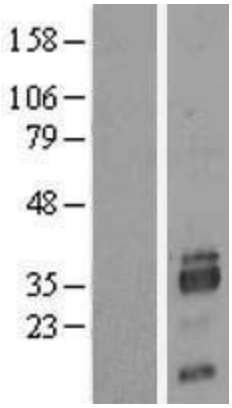
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_005067.7
RefSeq Size:	2632 bp
RefSeq ORF:	975 bp
Locus ID:	6478
UniProt ID:	O43255
Cytogenetics:	3q25.1
Domains:	Sina
Protein Families:	Druggable Genome, Transcription Factors
MW:	34.4 kDa
Gene Summary:	This gene encodes a protein that is a member of the seven in absentia homolog (SIAH) family. The protein is an E3 ligase and is involved in ubiquitination and proteasome-mediated degradation of specific proteins. The activity of this ubiquitin ligase has been implicated in regulating cellular response to hypoxia. [provided by RefSeq, Jul 2008]

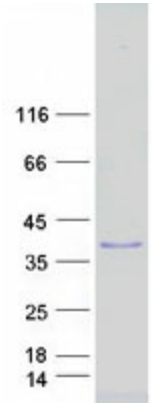
Product images:



Circular map for RC203802



Western blot validation of overexpression lysate (Cat# [LY417551]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203802 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SIAH2 protein (Cat# [TP303802]). The protein was produced from HEK293T cells transfected with SIAH2 cDNA clone (Cat# RC203802) using MegaTran 2.0 (Cat# [TT210002]).