

Product datasheet for RC211475

SIAH1 (NM_001006610) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | SIAH1 (NM_001006610) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | SIAH1 |
| Synonyms: | BURHAS; SIAH1A |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC211475 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACGGGAAAGGCTACTCCACCTTCTCTGTAAGGAGTCTTGTTCACATGTTTACCAGCGG
CCAGGACAAGGAAGAGAAAAGAAATGAGCCGTGACTGCTACAGCATTACCTACCGGTACCTCGAAGTG
TCCACCATCCCAGAGGGTGCCTGCCCTGACTGGCACAACATGCATCCAACAATGACTTGGCGAGTCTTTT
GAGTGTCCAGTCTGCTTTGACTATGTGTTACCGCCATTCTTCAATGTCAGAGTGGCCATCTTGTGTTGA
GCAACTGTCGCCAAAGCTCACATGTTGTCCAACCTTGCCGGGGCCCTTTGGGATCCATTGCAACTTGGC
TATGGAGAAAGTGCTAATTCAGTACTTTCCCTGTAAATATGCGTCTTCTGGATGTGAAATAACTCTG
CCACACACAGAAAAGCAGACCATGAAGAGCTCTGTGAGTTTAGGCCATTTCCTGTCCGTGCCCTGGT
CTTCTGTAAATGGCAAGGCTCTCTGGATGCTGTAATGCCCATCTGATGCATCAGCATAAGTCCATTAC
AACCTACAGGGAGAGGATATAGTTTTCTTGCTACAGACATTAATCTTCTGGTGTGTTGACTGGGTG
ATGATGCAGTCTGTTTTGGCTTCACTTCATGTTAGTCTTAGAGAAACAGGAAAAATACGATGGTCACC
AGCAGTCTTCGCAATCGTACAGCTGATAGGAACCGCAAGCAAGCTGAAAATTTGCTTACCGACTGA
GCTAAATGGTCAATAGCGACGATTGACTTGGGAAGCGACTCCTCGATCTATTCATGAAGGAATTGCAACA
GCCATTATGAATAGCGACTGTCTAGTCTTTGACACCAGCATTGCACAGCTTTTGCAGAAAATGGCAATT
TAGGCATCAATGTAACATTTCCATGTGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC211475 protein sequence
Red=Cloning site Green=Tags(s)

MTGKATPPSLYSWRGVLFTCLPAARTKRKRKEMSRQTATALPTGTSKCPPSQRPALTGTTASNNDLASLF
 ECPVCFDYVLPPIILQCQSGHLVCSNCRPKLTCCPTCRGPLGSIRNLAMEKVANSVLPCKYASSGCEITL
 PHTEKADHEELCEFRPYSCPCPGASCKWQGLDAVMPHLMHQHSITTLQGEDIVFLATDINLPGAVDWV
 MMQSCFGFHFMLVLEKQEKYDGHQOFFAIVQLIGTRKQAEFAYRLELNHRRRLTWEATPRSIHEGIAT
 AIMNSDCLVFDTSIAQLFAENGLGINVTISM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6344_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001006610

ORF Size: 939 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.

RefSeq: [NM_001006610.2](#)

RefSeq Size: 2393 bp

RefSeq ORF: 942 bp

Locus ID: 6477

UniProt ID: [Q8IUQ4](#)

Cytogenetics: 16q12.1

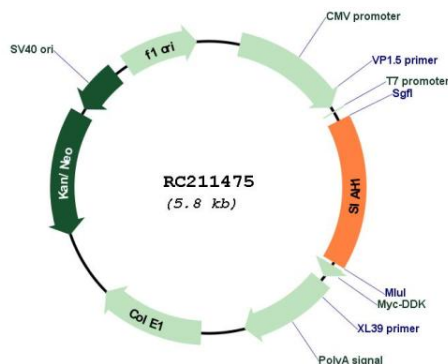
Protein Families: Druggable Genome

Protein Pathways: p53 signaling pathway, Ubiquitin mediated proteolysis, Wnt signaling pathway

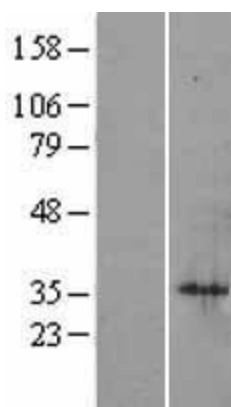
MW: 34.6 kDa

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 the development of certain forms of Parkinson's disease, the regulation of the cellular response to hypoxia and induction of apoptosis. Alternative splicing results in several additional transcript variants, some encoding different isoforms and others that have not been fully characterized. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211475



Western blot validation of overexpression lysate (Cat# [LY423687]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211475 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).