

Product datasheet for **RC223820**

SIAH3 (NM_198849) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	SIAH3
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PSI00001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC223820 representing NM_198849
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGCTTTTCTTTACCCAGTGCTTTGGGGCTGTATTAGATCTCATTATCTCCGGTTTCAGCACTACAAGG
CTAAACGGGTTTTCTCCGCTGCCGGGCAACTTGTCTGTGTCGTCACCCACACACAACCTAAAGTATGT
GTCCAGTCGGCGCGCCGTCACTCAGAGCGCTCCAGAGCAAGGCAGCTTCCACCTCACCATCTCTCCAC
CACCCTGCCACCAACCGCCACCAACCACTCCGCCACCAAGCCACCCACCACTTCAACCAAGG
AGGCGGGGCTGCACGCCAACCCGGTGACGCCCTGCCTGTGCATGTGTCCCTGTTCTCCTGCCAGTGGGA
AGGCCGCTGGAGGTGGTGGTCCCCACCTGCGGCAGATCCATAGGGTTGACATCTCCAGGAGCCGAG
ATCGTCTTCTGGCCACGGACATGCACCTCCCGCGCCGGCTGATTGGATCATCATGCACTCTGCCTTG
GCCACCACTTTCTGTTGGTGTGAGGAAACAGGAGAGGCATGAAGGGCACCCCAAGTTCTTTGCCACCAT
GATGCTGATTGGGACCCCAAGCGGCTGCTTACCTATCGCCTGGAGCTCAACAGAAACCATCGG
CGCCTCAAGTGGGAGGCCACGCCCCGTGTTCTTGAGTGCCTGGAGTCAACAGAAACCATCGG
GCCTCGTCTCAACACCTCGCTGGCACAGCTTCTCTGACAACGGCAGCCTTGCCATTGGGATTGCCAT
CACCAGCAGAGGTCCTCCCTCAGAAGCTGAAATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC223820 representing NM_198849

Red=Cloning site Green=Tags(s)

MLFFTQCFGAVLDLIHLRFQHYKAKRVFSAAGQLVCVNPETHNLKYVSSRRRAVTQSAPEQGSFHPHLSH
HHCHHRHHHHLRHHAPHHLHHQEAGLHANPVTPLCMCLFSCQWEGRLVVPHLRQIHRVDILQGAE
IVFLATDMHLPAPADWIIMHSCLGHHFLLVLRKQERHEGHPQFFATMMLIGTPTQADCFYRLELNRRH
RLKWEATPRSVLECVDSVITDGDCLVLNTSLAQLFSDNGSLAIGIAITATEVLPSEAEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4196_e02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_198849

ORF Size:

807 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:

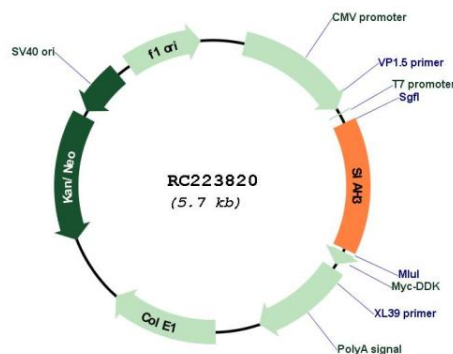
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

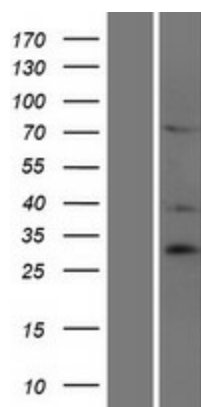
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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:	<u>NM_198849.3</u>
RefSeq Size:	4005 bp
RefSeq ORF:	810 bp
Locus ID:	283514
UniProt ID:	<u>Q8IW03</u>
Cytogenetics:	13q14.13
MW:	30.5 kDa
Gene Summary:	Negative regulator of PRKN translocation to damaged mitochondria. Acts probably by destabilizing PINK1 protein, hence inhibiting PRKN targeting to dysfunctional depolarized mitochondria.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC223820



Western blot validation of overexpression lysate (Cat# [LY404757]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223820 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).