

## Product datasheet for **RG211475**

### **SIAH1 (NM\_001006610) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SIAH1 (NM_001006610) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SIAH1
Synonyms:	BURHAS; SIAH1A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG211475 representing NM_001006610 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACGGGAAAGGCTACTCCACCTTCTCTGTAAGGAGGAGTCTTGTTACATGTTTACCAGCGG  
CCAGGACAAGGAAGAGAAAAGAAATGAGCCGTGACTGCTACAGCATTACCTACCGGTACCTCGAAGTG  
TCCACCATCCCAGAGGGTGCCTGCCCTGACTGGCACAACGATCCAACAATGACTTGGCGAGTCTTTT  
GAGTGTCCAGTCTGCTTTGACTATGTGTTACCGCCATTCTCAATGTCAGAGTGGCCATCTTGTTTGA  
GCAACTGTCGCCAAAGCTCACATGTTGTCCAACCTGCGGGGCCCTTTGGGATCCATTCGCAACTTGGC  
TATGGAGAAAGTGCTAATTCAGTACTTTCCCTGTAAATATGCGTCTTCTGGATGTGAAATAACTCTG  
CCACACACAGAAAAGCAGACCATGAAGAGCTCTGTGAGTTTAGGCCATTTCCTGTCCGTGCCCTGGTG  
CTTCCTGTAATGGCAAGGCTCTCTGGATGCTGTAATGCCCATCTGATGCATCAGCATAAGTCCATTAC  
AACCTACAGGGAGAGGATATAGTTTTCTTGCTACAGACATTAATCTTCCTGGTCTGTTGACTGGGTG  
ATGATGCAGTCTGTTTTGGCTTCACTTCATGTTAGTCTTAGAGAAACAGGAAAAATACGATGGTCACC  
AGCAGTTCTTCGCAATCGTACAGCTGATAGGAACCGCAAGCAAGCTGAAAATTTTGCTTACCGACTGA  
GCTAAATGGTCAATAGCGACGATTGACTTGGGAAGCGACTCCTCGATCTATTCATGAAGGAATTGCAACA  
GCCATTATGAATAGCGACTGTCTAGTCTTTGACACCAGCATTGCACAGCTTTTGCAGAAAATGGCAATT  
TAGGCATCAATGTAACATTTCCATGTGT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG211475 representing NM\_001006610  
Red=Cloning site Green=Tags(s)

MTGKATPPSLYSWRGVLFTCLPAARTKRKRKEMSRQTATALPTGTSKCPPSQRPALTGTTASNNDLASLF  
 ECPVCFDYVLPPIILQCQSGHLVCSNCRPKLTCCPTCRGPLGSIRNLAMEKVANSVLPCKYASSGCEITL  
 PHTEKADHEELCEFRPYSCPCPGASCKWQGS�DAVMPHLMHQHSITTLQGEDIVFLATDINLPGAVDWV  
 MMQSCFGFHFMLVLEKQEKYDGHQOFFAIVQLIGTRKQAEINFAYRLELNHRRRLTWEATPRSIHEGIAT  
 AIMNSDCLVFDTSLAQLFAENGLGINVTISMC

TRTRPLE - GFP Tag - V

**Restriction Sites:**

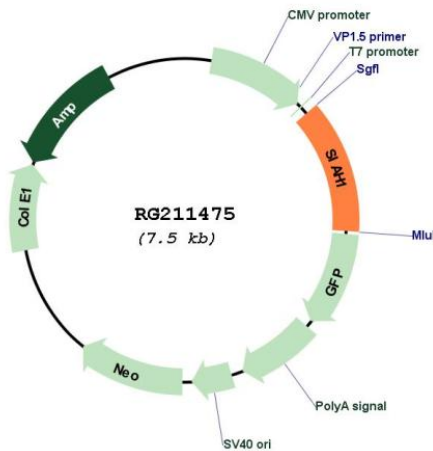
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001006610

**ORF Size:** 939 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001006610.2</a>
<b>RefSeq Size:</b>	2393 bp
<b>RefSeq ORF:</b>	942 bp
<b>Locus ID:</b>	6477
<b>UniProt ID:</b>	<a href="#">Q8IUQ4</a>
<b>Cytogenetics:</b>	16q12.1
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	p53 signaling pathway, Ubiquitin mediated proteolysis, Wnt signaling pathway
<b>Gene Summary:</b>	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]