

## Product datasheet for **RG236478**

### SSH2 (NM\_001282130) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SSH2 (NM\_001282130) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SSH2  
**Synonyms:** SSH-2; SSH-2L  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236478 representing NM\_001282130.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTTTGGTCACGGTCCAGCGGTACCTACCCACGACCACCTCCAGCCCCTGCGCCTCGGAGGCA
GACAGTGGGGAGGAAGAATGCCGGTCACAGCCCAGGAGCATCAGCGAGAGCTTTCTAACTGTCAAAGGT
GCTGCCCTTTTCTACCACGGGAAATGGCTCATCCACACCAAGAATCAGCCACAGACGGAACAAGCAT
GCAGGCGATCTCCAACAGCATCTCCAAGCAATGTTCAATTTACTCGCCCAAGACAACATCAGGCTG
GCTGTAAGACTGGAAGTACTTACCAGAATCGAACACGCTATATGGTAGTGGTTCAACTAATGGTAGA
CAAGACTGAAGAAAGCATCGTCTAGGAATGGATTTCTCTCTAATGACAGTAGCACTGTACCATG
GGCTTAGTTTTGCCTCTCTGGAGCGACAGCTAATTCATTTGGATGGTGTGGTGGTTCAGTGTATCG
ACGGATAACAGAGTTCACATATTCAAACCTGTATCTGTGCAGGCAATGTGGGTTGACAGGGATTCAAG
AACAAACTGTGATGTACTATTGGTGGAAAGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236478  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MALVTVQRSPSTPSTSSPCASEADSGEEECRSQPRISSESFLTVKGAALFLPRNGSSTPRI SHRRNKH
AGDLQQHLQAMFILLRPEDNIRLAVRLESTYQNRTRYMVVSTNQRDTEESIVLGMDFSSNDSSTCTM
GLVLPWSDTLIHLDDGGFVSVDNRVHIFKPVSVQAMVDRDRSRNKHCDVLLVEE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSPGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI

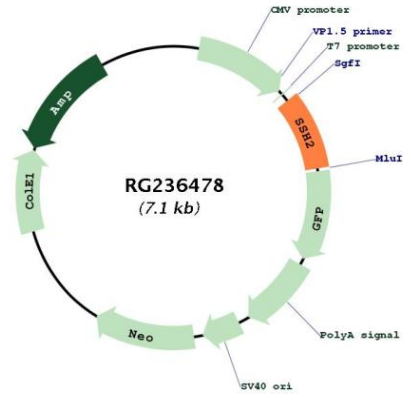


**Cloning Scheme:**


<b>ACCN:</b>	NM_001282130
<b>ORF Size:</b>	585 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>RefSeq:</b>	<a href="#">NM_001282130.2</a>
<b>RefSeq Size:</b>	1024 bp
<b>RefSeq ORF:</b>	588 bp
<b>Locus ID:</b>	85464
<b>UniProt ID:</b>	<a href="#">Q76I76</a>
<b>Cytogenetics:</b>	17q11.2
<b>Protein Families:</b>	Druggable Genome, Phosphatase
<b>Protein Pathways:</b>	Regulation of actin cytoskeleton
<b>MW:</b>	22.1 kDa

**Gene Summary:**

This gene encodes a protein tyrosine phosphatase that plays a key role in the regulation of actin filaments. The encoded protein dephosphorylates and activates cofilin, which promotes actin filament depolymerization. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2013]

**Product images:**

Circular map for RG236478