

## Product datasheet for **MG203265**

### Stk19 (NM\_019442) Mouse Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Stk19 (NM\_019442) Mouse Tagged ORF Clone  
 Tag: TurboGFP  
 Symbol: Stk19  
 Synonyms: G11; RP1  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-AC-GFP (PS100010)  
 E. coli Selection: Ampicillin (100 ug/mL)  
 ORF Nucleotide Sequence: >MG203265 representing NM\_019442  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAATCGCAAGAGACGGCTCCTGGCGTCTGAGGCTTTTGGGGTGAAGCGGAGGCCGGCGCCGGGGCCCG  
 TGAGAGCGGATCCTTTAAGAACAAGAGCAGGCTCGGCGCGGAGGCCATCGAGGAGCTCGTGAAGCTGTT  
 TCCCCGGGGCTGTTGAGGATGCACTGCCCAATCGCGCTGAGGAGCCAAGTGTACAGCTGGTGCCA  
 GACCGGACGGTGGCCGACCTACAACGAAGGAGCTTCAAGAACTGGGAGAGATCCGAATTATCCAGCTAG  
 GCTTTGACTTGGATGCTCATGGATTGTCTTACGGAAGACTACAGGACCCGGGTCTCAAGGCCTGTGA  
 TGCCCGACCATGTGCTGGGGCGGTGCAGAAGTTCCTGGCCTCAGTGTCCAGCCTGTGGGGACCTCAGT  
 TTCCAGCAGGATCAGATGACACAGACTTATGGCTTCAGGACCCGGAGATCACGCAGCTGGTGAACGCTG  
 GGGTCTCACTGTCCGAGATGCTGGAAGCTGGTGGCTGGCTGTGCCTGGAGCTGGGAGATTATCAAGTG  
 CTTTGTAAAGGGCGCCAGGCTGTACTGAGCATGGTGCAGGAGCAAGTACCGGGAGCTTGCTTGTCA  
 GAGCTCCTGGGCCGAGGGCCCCTTGGCAGTGCAGGCTAGGTCTTGCTACCATGTGCACGACCTCATTG  
 GAGCCAGCTGGTGGACTGTGTCCCACTTCTGGAACCTCCTTCGCTGCCAGATACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG203265 representing NM\_019442  
Red=Cloning site Green=Tags(s)

MNRKRLLASEAFGVKRRRAPGPVRADPLRTRAGSAREAIEELVKLFPRGLFEDALPPIALRSQVYSLVP  
 DRTVADLQLKELQELGEIRIIQLGFDLDAHGIVFTEDYRTRVLKACDGRPCAGAVQKFLASVLPACGDLS  
 FQQDQMTQTYGFRDPEITQLVNAGVLTVRDAGSWWLAVPGAGRFIKCFVKGRQAVLSMVRKAKYRELALS  
 ELLGRRAPLAVRLGLAYHVHDLIGAQLVDCVPTTSGTLLRLPDT

TRTRPLE - GFP Tag - V

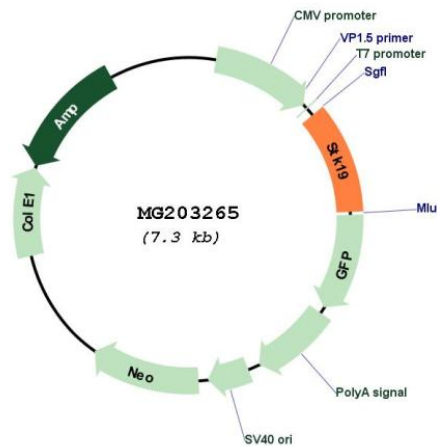
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_019442

**ORF Size:** 762 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_019442.2</a>
<b>RefSeq Size:</b>	1078 bp
<b>RefSeq ORF:</b>	765 bp
<b>Locus ID:</b>	54402
<b>UniProt ID:</b>	<a href="#">Q9JHN8</a>
<b>Cytogenetics:</b>	17 B1
<b>Gene Summary:</b>	Serine/threonine-protein kinase that acts as a key regulator of NRAS signaling by mediating phosphorylation of NRAS at 'Ser-89', thereby enhancing NRAS-binding to its downstream effectors.[UniProtKB/Swiss-Prot Function]