

## Product datasheet for **RR214078**

### Stpg2 (NM\_001100993) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stpg2 (NM_001100993) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stpg2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR214078 representing NM\_001100993  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTACGACCGTCTCCCGCTGGCTCGACTTAGCCAACCGGGCAGCACCGAGGAGCACGTGGGTCTG  
 GGACCTACCAGGTACCTTTTCTAAGCAGCAGGCCACAGGTTGCTATGCACCGTTCTTTCTTTGAGTTC  
 TAAAAAGATGCTTATGTTGTCTCCTCTGACCCTGGGAAAAGCCGTTCCAGGTCCAGCGCACTACAATGTG  
 TCACAAGCACAGTATAAAATAAAAGGAGGCCGACTCTGCAAAACCGAGAGAAGCGATTTAAGAACTTA  
 TTTCCGGATGGTCCAGGACCTGCAAGCTACGACTGCCCTTACCTGGGACACTATGTATCAGAATCAGACA  
 GAAAATCTGTAGGAAACCTGCAGTTTCCAGAAGCCTTGATATTCCTTCAATTCCTCTTCGGGAAAGTCG  
 CACGGGTATCACCTCAACGAGGACGACACTATTATGAGACGCACCCACCTTCTAGTGACAAGACGATGG  
 GTCGGCGTACTACAATCCTCAGTTTGATTATCCTAAAGCAAGTTTAAAATACAAAGGTGTAATTTTGG  
 TATTGCTACAGGAAGACAAGAATTGCTCAAATATTCAGGCCCTGGCCCCGGACACTATGATATCATCCAG  
 AAAAGGAAACTAGTTATGAAAAATTAACATCAAGAGAGATCAAGAGCACTACTGTTATTCATATGTTT  
 CGCGGCTGTATGAAGAGATAGCATTACAGGAAGAAAAAAGGGAGTACCAGGACCTGGAAAGTACAACAT  
 TAAAAGTCAATTTGATCACATAAAGTCCATGTCAACAATTGTGGATGCTTCATCTCTTTCTTTCTTCT  
 GAAACAGAGAGATTTGAACCTATCAAAATCGTCTACCCAGCTCCTGGCACGTATAATGAAACACGAACTG  
 CTTTCAAGGTCCCAAAGAAAAGATCAGGACTGTTTTACCATTGGTCAAAGAGCTGCCCGATTACAGA  
 GGATTACAAGGCCACGAACTACCAGGTCTGGTTTTATGATATCTCAACCAACATTGAAAAGCACAG  
 GTTAAAAAACCCCACTTGAAGAAAAAATGAAAACCTGGATTTGGTCTTCTGTGCCTCGAGCTCTGTTCG  
 CAGTTCAGGAAAAGCCTTCGCTGGCCCTGGGCCAGTGATTATCAGGTGGTTAGAGGAATTCATGATGA  
 ATTACCTAATGATGAACAAATACGCTGCTTTCTGTCAAGAGAAGAAAAGAACTACACCAGTGAAGAA  
 ATGAGTCTTCAGCTCCTGGCTGTATGATGTTTCAAGAAATCATATGATATGTCCCAAGTTCAACATAACT  
 ACATGCCGCTCGTAGTTCAGTGGCTAAACAAAGGCATTCTCTTCTGAGTGCAGCTCCTCGGTGCCT  
 GGGGAAAATCTCTGATGGCCAGGACCTGCAACATACAATCCCATTTAATGAAGTCTGGTGCATAATC  
 TCATTCGTTAAAGCACCAAGGCCTTCGAAGAGTTTTCAGGACAAGTTTCTCCTGGCCCTACGACATACG  
 AGCTCAGTCCATTTTTAGACATTCGCTTCTGAAGAGAACATAACAATGCTACTCTACCATGTTCCGGTTC  
 CCTCAATAGAGAACATGCTGGTCATGCAGTGCAAAAAACAGACAAAAATATCAAAGAGAGAGATTTAAG  
 CATCCTAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR214078 representing NM\_001100993  
 Red=Cloning site Green=Tags(s)

MYDRAPRWLDLANRGSTEEHVPGTYQVPFPKQATGCYAPFLSLSSKKDAYVVSSDPGKAVPGPAHYNV  
 SQAQYKIKGGRTLQNREKRFKLLISDGGPASYDCPYLGLTCIRIRQKICRKPAVSRSLDIPSIPSSGKS  
 HGYHLNEDDTIMRRTPPSSDKTMGPAYNPPQFDYPKASLKYKGVNFGIATGRQELLYSGPFGHYDIIQ  
 KRKLRyenINIKRDQEHYCYSYVPRLYEEIALQEEKKGVPKGNIKSQFDHIKSMSTIVDASSLLFFP  
 ETERFEPKSSPTAPGTYNETRTAFKVPKRSGLFSPFGQRAARFTEDYKAHELPGPGFYDISTNIVKAQ  
 YKPHLKKMKMGFGSSVPRALFAVQEKAFAGPSPDYQVVRGIHDELPNLMNKYAAFLSREERTTPVQE  
 MSLPAPGCYDVQKSYDMSQVQHNYMPPRSSVAKQRHSSFLSAAPRCLGKISDGGPATYNPILMKSgaii  
 SFVKAPRRFEFQDKFSPGPTTYELSPFFRHSLLKRTYNVTLPCSASLNREHAGHAVQKTRQKYQRERFK  
 HPN

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:**

Sgfl-Mlul

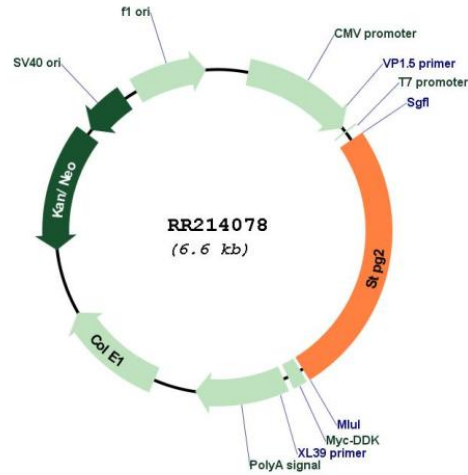
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM\_001100993

ORF Size:	1689 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. <a href="#">More info</a>
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:	<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>
RefSeq:	<a href="#">NM_001100993.1</a> , <a href="#">NP_001094463.1</a>
RefSeq Size:	2089 bp
RefSeq ORF:	1692 bp
Locus ID:	499719
UniProt ID:	<a href="#">A1A5R9</a>
Cytogenetics:	2q44
MW:	63.4 kDa