

Product datasheet for RC228178

STPG4 (NM_001163561) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STPG4 (NM_001163561) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STPG4
Synonyms:	C2orf61; GSE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228178 representing NM_001163561 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACCAGCCAGCCGTCGCCACCGCTTCCACCTCAATAAGGGAAGACCTGGTGGGTGGAGAATCATTCA
TCACAGCTTCGAAACCAGCCAAAAGACTTCTCTTTTGAAGAGAAGGATGGTGGAGAATAGCATTAAAC
AGATACTCCTATACCTGGCACTTACCACCTGAAAACCTTTATTGAAGAATCCCTATTAATCCAGTGATA
GCAACCTACAATTTAAAAACGAAGGAAGGAAAAAGCCACCTCTTGTGCAAAGAAAACAATCCAGTCTAA
ATGATCTTCCGCAGTATATGCCTCCTGACTTCTGGACCTGTTAAGAAGCAAGTGGCTACTTACTCATT
CAAAGACAAACCAGGCCAAGCCCCAGCACACTAGTTGACAAAGATCAGTCACTTCACTTCTCCGGGG
CAATACAACGTGCTTCTGCACCAGTTCCTCAAAATATGCTTCCAGGAGCTGTGATTTTCGCTCAACAGTTC
AAAGATTTCCAAACACCTATTTTATTTCCCATGAAGGCCCTGGTCCAGGTCATTATAATGTGAAAATGCC
TCCAACAAGCTCTGTCACTTCTTGTTTTCAATCCAGAGTCCCTCGATTCTTGCCAGCTGTTCAAAAACC
CCAGGCCAGGAGCATATACAACCTTAAGACAATCCCTAAGCAGTCTCCGACCATAGCCAAAATGGGCC
AAGAGCATAGCCTTTTCTTCAACAACAACAATTGGCTTTAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC228178 representing NM_001163561
Red=Cloning site Green=Tags(s)

MDQPAVATASTSIREDLVGGESFITASKPAQKTSSFEREQGWRIALDTPPIPGTYHLKTFIEESLLNPVI
 ATYNFKNEGRKKPPLVQRNNPVLNDLPQYMPDFDLKKQVATYSFKDKPRPSPSTLVDKDQSLQLSPG
 QYNVLPAPVPKYASRSCVFRSTVQRFPPTYFIPHEGPGPHYVNMKMPPTSSVTSFCQSRVPRFLPSCSKT
 PGPAYTTLRQFPKQSPITAKMGQEHSLFFNNNNWLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8038_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001163561

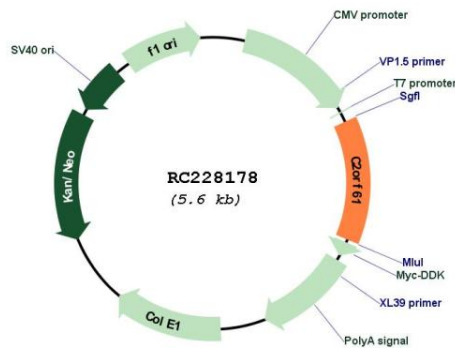
ORF Size: 744 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<ol style="list-style-type: none"> 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.
RefSeq:	<u>NM_001163561.2</u>
RefSeq ORF:	747 bp
Locus ID:	285051
UniProt ID:	<u>Q8N801</u>
Cytogenetics:	2p21
MW:	27.6 kDa
Gene Summary:	Maternal factor that plays a role in epigenetic chromatin reprogramming during early development of the zygote. Involved in the regulation of gametic DNA demethylation by inducing the conversion of the modified genomic base 5-methylcytosine (5mC) into 5-hydroxymethylcytosine (5hmC).[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RC228178