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Product datasheet for RG228178

STPG4 (NM_001163561) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	STPG4
Synonyms:	C2orf61; GSE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG228178 representing NM_001163561
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGACCAGCCAGCCGTCGCCACCGCTTCCACCTCAATAAGGGAAGACCTGGTGGGTGGAGAATCATTCA
TCACAGCTTCGAAACCAGCCCAAAAGACTTCCTCTTTTGAAAGAGAAGGATGGTGGAGAATAGCATTAAC
AGATACTCCTATACCTGGCACTTACCACTTGAAAACTTTTATTGAAGAATCCCTATTAAATCCAGTGATA
GCAACCTACAATTTTAAAAACGAAGGAAGGAAAAAGCCACCTCTTGTGCAAAGAAACAATCCAGTCCTAA
ATGATCTTCCGCAGTATATGCCTCCTGACTTCCTGGACCTGTTAAAGAAGCAAGTGGCTACTTACTCATT
CAAAGACAAACCACGGCCAAGCCCCAGCACACTAGTTGACAAAGATCAGTCACTTCAGCTTTCTCCGGGG
CAATACAACGTGCTTCCTGCACCAGTTCCCAAATATGCTTCCAGGAGCTGTGTATTTCGCTCAACAGTTC
AAAGATTCCCAACAACCTATTTTATTCCCCATGAAGGCCCTGGTCCAGGTCATTATAATGTGAAAATGCC
TCCAACAAGCTCTGTCACTTCTTGTTTTCAATCCAGAGTCCCTCGATTCTTGCCCAGCTGTTCAAAAACC
CCAGGCCCAGGAGCATATACAACTTTAAGACAATTCCCTAAGCAGTCTCCGACCATAGCCAAAATGGGCC
AAGAGCATAGCCTTTTCTTCAACAACAACAATTGGCTTTTAAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

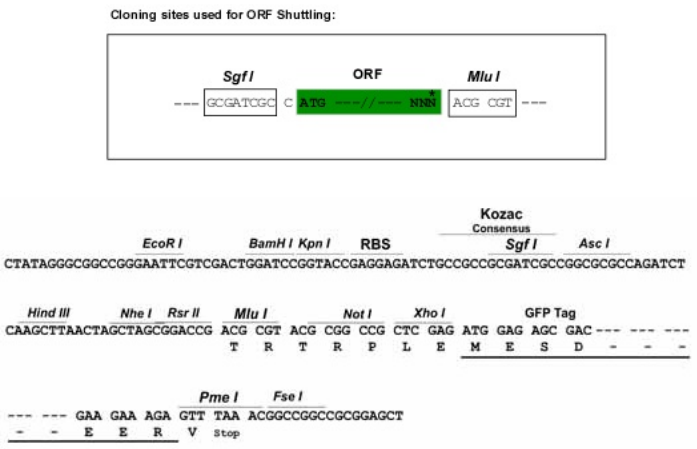
>RG228178 representing NM_001163561
Red=Cloning site Green=Tags(s)

MDQPAVATASTSIREDLVGGESFITASKPAQKTSSFEREGWWRIALTDTPIPGTYHLKTFIEESLLNPVI
ATYNFKNEGRKKPPLVQRNNPVLNDLPQYMPPDFLDLLKKQVATYSFKDKPRPSPSTLVDKDQSLQLSPG
QYNVLPAPVPKYASRSCVFRSTVQRFPTTYFIPHEGPGPGHYNVKMPPTSSVTSCFQSRVPRFLPSCSKT
PGPGAYTTLRQFPKQSPTIAKMGQEHSLFFNNNNWLLK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001163561

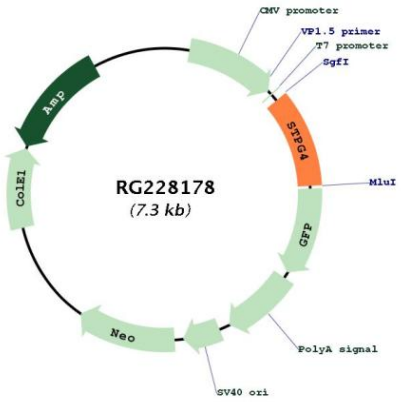
ORF Size: 744 bp

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001163561.2
RefSeq Size:	891 bp
RefSeq ORF:	747 bp
Locus ID:	285051
UniProt ID:	Q8N801
Cytogenetics:	2p21
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 RG228178