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Product datasheet for RG233211

STK36 (NM_001243313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK36 (NM_001243313) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STK36
Synonyms:	FU
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG233211 representing NM_001243313
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAAAGTACCACGTGTTGGAGATGATTGGAGAAGGCTCTTTTGGGAGGGTGTACAAGGGTCGAAGAA
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CACTCTATATGTCTCCAGAGCTGGTGGAGGAGCGACCATACGACCACACAGCGGACCTCTGGTCTGTTGG
CTGCATACTATATGAACTGGCAGTAGGCACCCCTCCCTTCTATGCTACAAGCATCTTTCAGCTGGTCAGC
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GCCTTGTATTCCTTCTGCCGGGAGGCAGGGCTTCCTGGGCTGCTGCTGAGTCTACTCAGGCACAGTCAGG
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CTCTCTCTGGGGAATCAGTCACTGCCACACAGCAGTCCTAGGCCTGCCTCTGCCAAACACTGCAGGAAAC
TCATTCACCTCCTGAGGCCAGCCCATAGCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

>RG233211 representing NM_001243313
Red=Cloning site Green=Tags(s)

MEKYHVLEMIGEGSFGRVYKGRRKYSAQVVALKFIPKLGRSEKELRNLQREIEIMRGLRHPNIVHMLDSF
ETDKEVVVVTDYAEGELFQILEDDGKLPEDQVQAIAAQLVSALYYLHSHRILHRDMKPQNILLAKGGGIK
LCDFGFARAMSTNTMVLTSIKGTPLYMSPELVEERPYDHTADLWSVGCILYELAVGTPPFYATSIFQLVS
LILKDPVRWPSTISPCFKNFLQGLLTKDPRQRLSWPDLLYHPFIAGHVTIITEPAGPDLGTPFTSRLPPE
LQVLKDEQAHRLAPKGNQSRILTQAYKRMAEEAMQKKHQNTGPALEQEDKTSKVAPGTAPLPRLGATPQE
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SDQPLLTSDLLSLLAHTARVLSPSHLSFIQELLAGSDESYRPLRSLLGHPENSVRAHTYRLLGHLLQHSM
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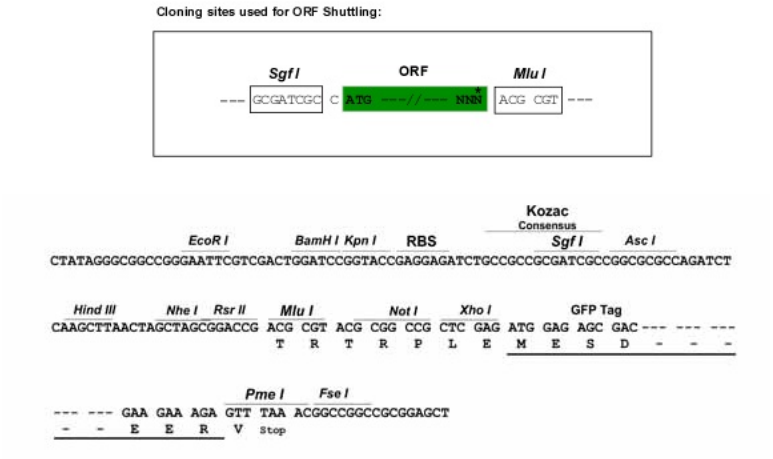
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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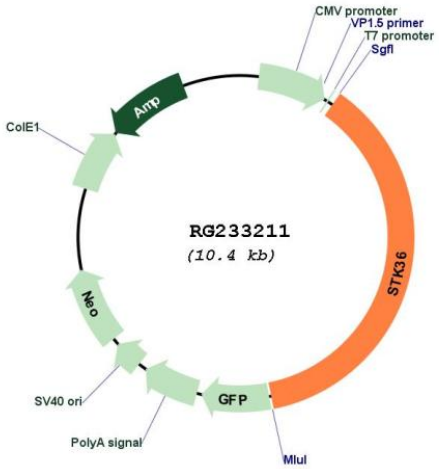
Plasmid Map:



ACCN:	NM_001243313
ORF Size:	3882 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. 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.
RefSeq:	NM_001243313.2
RefSeq Size:	4883 bp
RefSeq ORF:	3885 bp
Locus ID:	27148
UniProt ID:	Q9NRP7
Cytogenetics:	2q35

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Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Basal cell carcinoma, Hedgehog signaling pathway, Pathways in cancer
Gene Summary:	This gene encodes a member of the serine/threonine kinase family of enzymes. This family member is similar to a Drosophila protein that plays a key role in the Hedgehog signaling pathway. This human protein is a positive regulator of the GLI zinc-finger transcription factors. Knockout studies of the homologous mouse gene suggest that defects in this human gene may lead to congenital hydrocephalus, possibly due to a functional defect in motile cilia. Because Hedgehog signaling is frequently activated in certain kinds of gastrointestinal cancers, it has been suggested that this gene is a target for the treatment of these cancers. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Aug 2011]

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