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Product datasheet for RC209210

STK31 (NM_031414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK31 (NM_031414) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STK31
Synonyms:	SGK396; TDRD8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209210 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTGGGTCCAGGGTCACTCTTCTAGAGCTTCCGCAACGGAAAGTGTGAGTTTTTCAGGAATTGTTCAAA TGGATGAAGATACACATTACGATAAAGTGGAAGATGTGGTTGGAAGTCACATAGAAGATGCAGTAACATT TTGGGCCCAGAGTATCAATAGAAATAAGGATATCATGAAGATTGGTTGCTCACTGTCTGAAGTTTGCCCC CACGCCAGTTCAGTTTTGGGGAATCTTGACCCAAACAAGATTTATGGTGGATTATTTTCTGAAGATCAGT GTTGGTACAGATGCAAAGTACTGAAAATCATCAGCGTTGAAAAGTGTCTGGTGAGGTACATTGACTATGG AAATACTGAAATTCTAAATCGATCTGATATAGTTGAAATTCCTTTGGAGCTGCAGTTTTCTAGTGTTGCC AAAAAGTATAAACTTTGGGGACTACACATTCCTTCTGATCAAGAAGTTACCCAGTTTGATCAGGGCACAA CCTTTTTGGGGAGCTTGATTTTTGAAAAGGAAATAAAAATGAGAATTAAAGCAACCTCTGAAGATGGAAC AGTTATTGCTCAGGCTGAGTATGGCAGTGTGGATATAGGGGAAGAGGTGCTTAAGAAAGGATTTGCAGAG AAATGCAGACTTGCTTCCAGAACTGACATCTGTGAGGAAAAAAAATTGGATCCTGGTCAACTTGTTCTCA GGAACCTCAAAAGCCCCATTCCTTTGTGGGGGCATAGATCAAACCAGTCAACCTTCAGCAGGCCCAAGGG GCACTTAAGTGAGAAAATGACTCTTGACTTGAAGGATGAAAATGATGCAGGCAATCTTATAACATTTCCA AAGGAAAGTTTGGCTGTTGGTGACTTTAATTTAGGGTCTAACGTCAGCCTGGAAAAAATTAAGCAGGACC AGAAACTGATTGAAGAAAATGAAAAACTTAAAACAGAGAAGGACGCTCTTCTTGAAAGTTATAAGGCGTT AGAATTGAAAGTAGAGCAGATTGCCCAGGAGCTGCAGCAAGAGAAGGCAGCTGCTGTGGATTTGACTAAC CACTTAGAATACACTCTGAAGACCTATATAGATACCAGAATGAAAAATCTGGCAGCTAAGATGGAAATAC TGAAAGAAATGAGGCATGTCGACATCAGTGTCCGTTTCGGAAAAGACCTTTCAGATGCTATACAAGTGTT GGATGAAGGGTGCTTTACTACTCCAGCTTCTTTGAATGGATTAGAGATAATATGGGCAGAATACAGTCTG GCTCAGGAGAATATTAAAACTTGTGAATATGTGAGTGAAGGGAATATTTTGATTGCCCAAAGAAATGAAA TGCAGCAGAAGCTGTACATGTCAGTAGAAGATTTTATTCTGGAAGTTGATGAGTCATCTCTTAATAAACG CTTAAAAACATTGCAGGATTTGTCAGTCTCTTTAGAAGCAGTGTATGGACAAGCCAAAGAAGGAGCAAAT

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Protein Sequence:

>RC209210 protein sequence
Red=Cloning site Green=Tags(s)

MWVQGHSSRASATESVSFSGIVQMDEDTHYDKVEDVVGSHIEDAVTFWAQSINRNKDIMKIGCSLSEVCP
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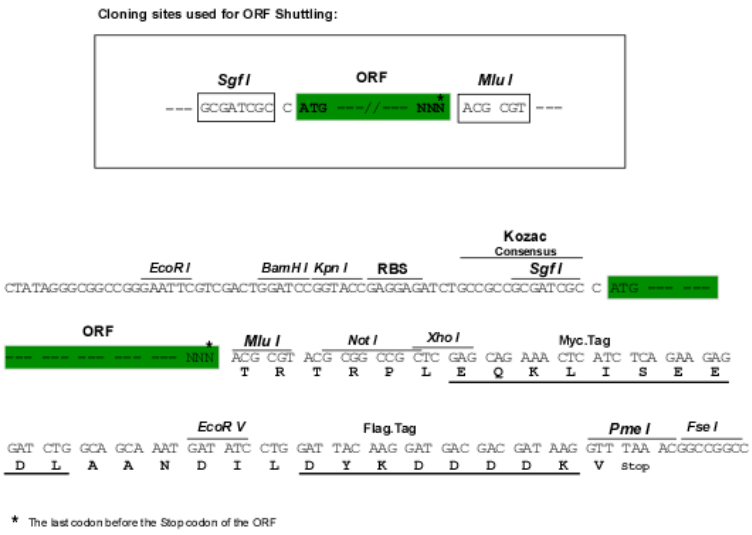
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6293_f03.zip

Restriction Sites: SgfI-MluI

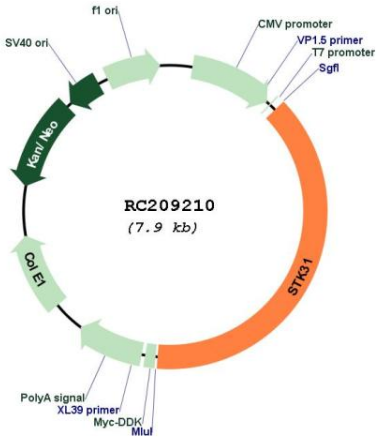
Cloning Scheme:



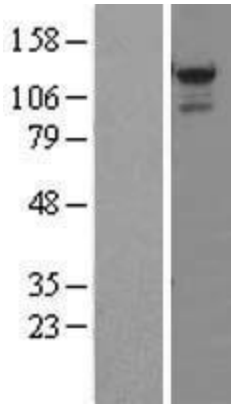
ACCN:	NM_031414
ORF Size:	3057 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_031414.5
RefSeq Size:	3326 bp

RefSeq ORF:	3060 bp
Locus ID:	56164
UniProt ID:	Q9BXU1
Cytogenetics:	7p15.3
Protein Families:	Druggable Genome, Protein Kinase
MW:	115.7 kDa
Gene Summary:	This gene is similar to a mouse gene that encodes a putative protein kinase with a tudor domain, and shows testis-specific expression. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

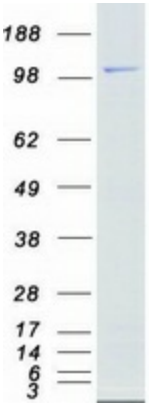
Product images:



Circular map for RC209210



Western blot validation of overexpression lysate (Cat# [LY410539]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209210 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified STK31 protein (Cat# [TP309210]). The protein was produced from HEK293T cells transfected with STK31 cDNA clone (Cat# RC209210) using MegaTran 2.0 (Cat# [TT210002]).