

Product datasheet for **RC237462**

STK33 (NM_001289059) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK33 (NM_001289059) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STK33
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC237462 representing NM_001289059 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACCTTTGTGATGGAGCTTTGTGAGGATGGAGAAGCTCAAAGAAATCTGGATAGGAAAGGCCATTTCT
CAGAGAATGAGACAAGGTGGATCATTCAAAGTCTCGCATCAGCTATAGCATATCTTCACAATAATGATAT
TGTACATAGAGATCTGAACTGGAAAATAAATGGTTAAAAGCAGTCTTATTGATGATAACAATGAAATA
AACTTAAACATAAAGGTGACTGATTTTGGCTTAGCGGTGAAGAAGCAAAGTAGGAGTGAAGCCATGCTGC
AGGCCACATGTGGGACTCCTATCTATATGGCCCTGAAGTTATCAGTGCCACGACTATAGCCAGCAGTG
TGACATTTGGAGCATAGGCGTCGTAATGTACATGTTATTACGTGGAGAACCACCTTTTTGGCAAGCTCA
GAAGAGAAGCTTTTTGAGTTAATAAGAAAAGGAGAAGTACATTTGAAAATGCAGTCTGGAATTCATAA
GTGACTGTGCTAAAAGTGTGTTGAAACAACCTATGAAAGTAGATCCTGCTCACAGAATCACAGCTAAGGA
ACTACTAGATAACCAGTGGTTAACAGGCAATAAAGTCTTCCGGTGAGACCAACCAATGTATTAGAGATG
ATGAAGGAATGGAAAAAATACCCAGAAAGTGTGAGGAAAACACAACAGAAGAGAAGAATAAGCCGTCCA
CTGAAGAAAAGTTGAAAAGTTACCAACCCTGGGAAAATGTCCCTGATGCCAATTACACTTCAGATGAAGA
GGAGGAAAAACAGTCTACTGCTTATGAAAAGCAATTCCTGCAACCAAGTAAAGGACAATTTGATATGTGC
AGTTCAAGTTTCACATCTAGCAAACCTTCCAGCTGAAATCAAGGGAGAAATGGAGAAAACCCCTGTGA
CTCCAAGCCAAGGAACAGCAACCAAGTACCCTGCTAAATCCGGCGCCCTGTCCAGAACAAAAAGAAACT
C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237462 representing NM_001289059
 Red=Cloning site Green=Tags(s)

MYLVMELCEDGELKEILDRKGHFSENETRWIIQSLASAIAYLHNNDIVHRDLKLENIMVKSSLIDDNNEI
 NLNIKVTDVFLAVKKQSRSEAMLQATCGTPIYMAPEVISAHDYSQQCDIWSIGVVMYMLLRGEPPLASS
 EEKLFELIRKGLHFENAVWNSISDCAKSVLKQLMKVDPAHRITAKELLDNQWL TGNKLSVVRPTNVLEM
 MKEWKNNPESVEENTTEENKPKSTEEKLSYQPWGNVPDANYTSDEEEEEKQSTAYEKQFPATSKDNFDMC
 SSSFTSSKLLPAEIKGEMEKTPVTPSQGTATKYPAKSGALSRTKKKL

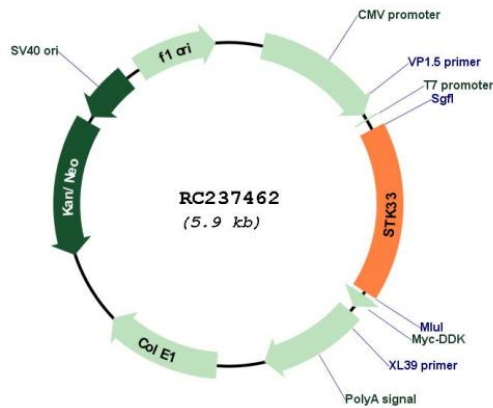
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001289059

ORF Size:	981 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:	<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:	NM_001289059.2
RefSeq Size:	2057 bp
RefSeq ORF:	984 bp
Locus ID:	65975
UniProt ID:	Q9BYT3
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome, Protein Kinase
MW:	37.5 kDa
Gene Summary:	Serine/threonine protein kinase which phosphorylates VIME. May play a specific role in the dynamic behavior of the intermediate filament cytoskeleton by phosphorylation of VIME (By similarity). Not essential for the survival of KRAS-dependent AML cell lines.[UniProtKB/Swiss-Prot Function]