

Product datasheet for **RC238657**

STK33 (NM_001289061) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK33 (NM_001289061) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	STK33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC238657 representing NM_001289061
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCTGATAGTGGCTTAGATAAAAAATCCACAAAATGCCCCGACTGTTTCATCTGCTTCTCAGAAGATG
 TACTTTGTGTATGTTCCAGCAAAAACAAGGTTCCCTCCAGTTTTGGTGGTAAATGTACAGACATCAAG
 CATTGGTAGTGCAGAATCTTTAATTTCACTGGAGAGAAAAAAGAAAAAATATCAACAGAGATATAACC
 TCCAGGAAAGATTTGCCCTCAAGAACCTCAAATGTAGAGAGAAAAGCATCTCAGCAACAATGGGGTCGGG
 GCAACTTTACAGAAGGAAAAGTTCTCACATAAGGATTGAGAAATGGAGCTGCTATTGAGGAAATCTATAC
 CTTTGGAAAGAATATTGGGAAAAGGGAGCTTTGGAATAGTCATTGAAGCTACAGACAAGGAAAACAGAAACG
 AAGTGGCAATTAAGGAAAGTGAACAAAAGAAAAGGCTGGAAAGCTCCGCTGTGAAGTACTTGAACGAGAGG
 TGAACATTTCTGAAAAGTGTAAAACATGAACACATCATACTGGAACAAGTATTTGAAACGCCAAAGAA
 AATGTACCTTGTGATGGAGCTTTGTGAGGATGGAGAACTCAAAGAAATTTGGATAGGAAAGGCCATTTTC
 TCAGAGAATGAGACAAGGTGGATCATTCAAAGTCTCGCATCAGCTATAGCATATCTTCAACAATGATA
 TTGTACATAGGGATCTGAAACTGGAAAATATAATGGTTAAAAGCAGTCTTATTGATGATAACAATGAAAT
 AAACCTAAACATAAAGGTGACTGATTTTGGCTTAGCGGTGAAGAAGCAAAGTAGGAGTGAAGCCATGCTG
 CAGGCCACATGTGGGACTCCTATCTATATGGCCCTGAAGTTATCAGTGCCACGACTATAGCCAGCAGT
 GTGACATTTGGAGCATAGGCGTCGTAATGTACATGTTATTACGTGGAGAACCACCCTTTTTGGCAAGCTC
 AGAAGAGAAGCTTTTTGAGTTAATAAGAAAAGGAGAACTACATTTGAAAATGCAGTCTGGAATTCATA
 AGTGACTGTGCTAAAAGTGTGTTGAAACAACCTTATGAAAGTAGATCCTGCTCACAGAATCACAGCTAAGG
 AACTACTAGATAACCAAGTGGTTAACAGGCAATAAACTTTCTTCGTTGAGACCAACCAATGTATTAGAGAT
 GATGAAGGAATGGAAAAATAACCCAGAAAAGTGTGAGGAAAACACAACAGAAGAGAAGAATAAGCCGCTCC
 ACTGAAGAAAAGTTGAAAAGTTACCAACCTGGGAAAATGTCCCTGAGACCAATTACACTTCAGATGAAG
 AGGAGGAAAAACAGTCTACTACTTATGAAAAGCAATTTCTGCAACCAGTAAGGACAACCTTTGATATGTG
 CAGTTCAAGTTTACATCTAGCAAACTCCTCCAGCTGAAATCAAGGGAGAAATGGAGAAAAACCCCTGTG
 ACTCCAAGCCAAGGAACAGCAACCAAGTACCCTGCTAAATCCGGCGCCCTGTCCAGAACCAAAAAGAAAC
 TC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238657 representing NM_001289061
 Red=Cloning site Green=Tags(s)

MADSGLDKKSTKCPDCSSASQKDVLCVCSKTRVPPVLVEMSQTSIGSAESLISLERKKEKNINRDIT
 SRKDLPSRTSNVERKASQQWGRGNFTEGKVPHIRIENGAAIEEYTFGRILGKGSFGIVIEATDKETET
 KWAICKVNKEKAGSSAVKLLEREVNILKSVKHEHIIHLEQVFETPKKMYLVMELCEDGELKEILDRKGHF
 SENETRWIIQSLASAIAYLHNNDIVHRDLKLENIMVKSSLIDNNEINLNKIVTDFGLAVKKQSRSEAML
 QATCGTPIYMAPEVISAHDYSQQCDIWSIGVVMYMLLRGEPFLASSEKLFELIRKGLHFENAVWNSI
 SDCAKSVLKQLMKVDPAHRITAKELLDNQWLTGNKLSVRPTNVLEMMKEWKNNPESVEENTTEKNKPS
 TEEKLKSYPWGNVPETNYTSDEEEKQSTTYEKQFPATSKDNFDMCSSFTSSKLLPAEIKGEMEKTPV
 TPSQGTATKYPKSGALSRTKKKL

TRTRPLEQK**LI**SEEDLAANDILDYKDDDDK**V**

Chromatograms:

https://cdn.origene.com/chromatograms/mk6041_g02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001289061

ORF Size: 1542 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_001289061.1](#), [NP_001275990.1](#)

RefSeq Size: 2615 bp

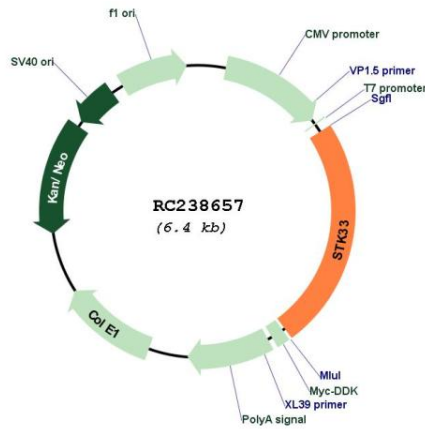
RefSeq ORF: 1545 bp

Locus ID: 65975

UniProt ID: [Q9BYT3](#)

Cytogenetics: 11p15.4
Protein Families: Druggable Genome, Protein Kinase
MW: 57.9 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]

Product images:



Circular map for RC238657