

Product datasheet for **RC238430**

STK33 (NM_001289058) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK33 (NM_001289058) 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:

>RC238430 representing NM_001289058
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCACAGACATCAAGCATTGGTAGTGCAGAATCTTTAATTTCACTGGAGAGAAAAAAGAAAAAATA
 TCAACAGAGATATAACCTCCAGGAAAGATTTGCCCTCAAGAACCTCAAATGTAGAGAGAAAAGCATCTCA
 GCAACAATGGGGTCGGGGCAACTTTACAGAAGGAAAAGTTCTCACATAAGGATTGAGAATGGAGCTGCT
 ATTGAGGAAATCTATACCTTTGGAAGAATATTGGGAAAAGGGAGCTTTGGAATAGTCATTGAAGCGACAG
 ACAAGGAAACAGAAACGAAGTGGGCAATTAAGAAAGTGAACAAAGAAAAGGCTGGAAGCTCTGCTGTGAA
 GTTACTTGAACGAGAGGTGAACATTCTGAAAAGTGTAAACATGAACACATCATACATCTGGAACAAGTA
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 GATGATAACAATGAAATAAACTTAACATAAAGGTGACTGATTTTGGCTTAGCGGTGAAGAAGCAAAGTA
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 GACAACCTTGATATGTGAGTTCAAGTTTCACATCTAGCAAACTCCTTCCAGCTGAAATCAAGGGAGAAA
 TGGAGAAAACCCCTGTGACTCCAAGCAAGGAACAGCAACCAAGTACCCTGCTAAATCCGGCGCCCTGTC
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 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

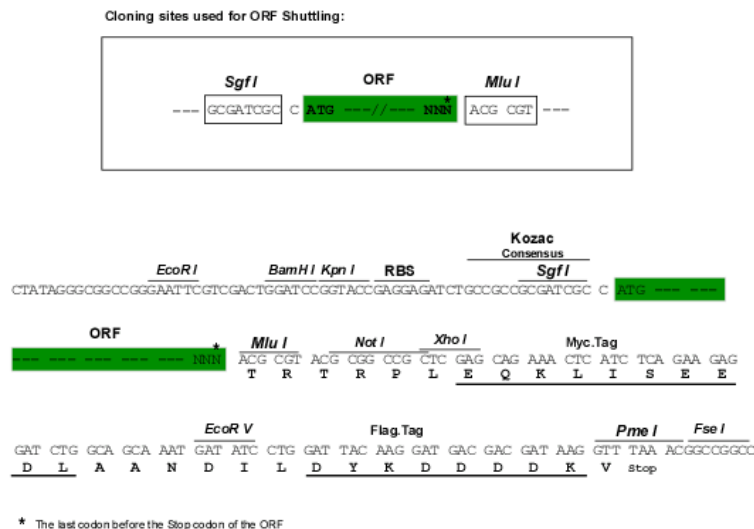
>RC238430 representing NM_001289058
 Red=Cloning site Green=Tags(s)

MSQTSSIGSAESLISLERKKEKNINRDITSRKDLPSRTSNVERKASQQQWGRGNFTGKVPHIRIENGAA
 IEEIYTFGRILGKGSFGIVIEATDKETETKWAIKVNKEKAGSSAVKLLEREVNILKSVKHEHIIHLEQV
 FETPKMYLVMELCEDGELKEILDRKGHFSENETRWIIQSLASAIAYLHNNDIVHRDLKENIMVKSSLI
 DDNNEINLNIKVTDFGLAVKKQSRSEAMLQATCGTPIYMAPEVISAHDYSQQCDIWSIGVVMYMLLRGEP
 PFLASSEEKLFELIRKGLHFENAVWNSISDCAKSVLKQLMKVDPAHRITAKELLDNQWLGNKLSSVRP
 TNVLEMMKEWKNNPESVEENTTEKNKPSTEEKLSYQPWGNVPDANYTSDEEEEEKQSTAYEKQFPATSK
 DNDFMCSSTSSKLLPAEIKGEMEKTPVTPSQGTATKYPKSGALSRTKKKL

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001289058

ORF Size: 1419 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_001289058.2](#)

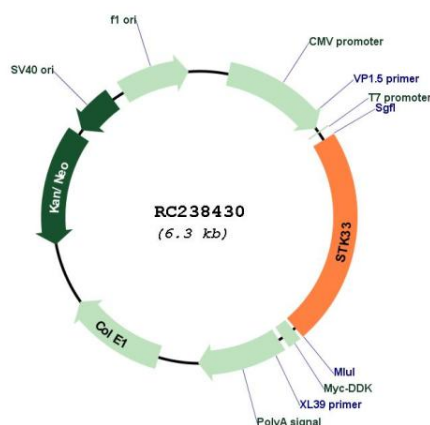
RefSeq Size: 2350 bp

RefSeq ORF: 1422 bp

Locus ID: 65975

UniProt ID:	<u>Q9BYT3</u>
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome, Protein Kinase
MW:	54 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 RC238430