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Product datasheet for RG238430

STK33 (NM_001289058) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK33 (NM_001289058) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STK33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG238430 representing NM_001289058.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTCACAGACATCAAGCATTGGTAGTGCAGAATCTTTAATTTCACTGGAGAGAAAAAAAGAAAAAAAT
ATCAACAGAGATATAACCTCCAGGAAAGATTTGCCCTCAAGAACCTCAAATGTAGAGAGAAAAGCATCT
CAGCAACAATGGGGTCGGGGCAACTTTACAGAAGGAAAAGTTCCTCACATAAGGATTGAGAATGGAGCT
GCTATTGAGGAAATCTATACCTTTGGAAGAATATTGGGAAAAGGGAGCTTTGGAATAGTCATTGAAGCG
ACAGACAAGGAAACAGAAACGAAGTGGGCAATTAAAAAAGTGAACAAAGAAAAGGCTGGAAGCTCTGCT
GTGAAGTTACTTGAACGAGAGGTGAACATTCTGAAAAGTGTAAAACATGAACACATCATACATCTGGAA
CAAGTATTTGAAACGCCAAAGAAAATGTACCTTGTGATGGAGCTTTGTGAGGATGGAGAACTCAAAGAA
ATTCTGGATAGGAAAGGGCATTTCTCAGAGAATGAGACAAGGTGGATCATTCAAAGTCTCGCATCAGCT
ATAGCATATCTTCACAATAATGATATTGTACATAGAGATCTGAAACTGGAAAATATAATGGTTAAAAGC
AGTCTTATTGATGATAACAATGAAATAAACTTAAACATAAAGGTGACTGATTTTGGCTTAGCGGTGAAG
AAGCAAAGTAGGAGTGAAGCCATGCTGCAGGCCACATGTGGGACTCCTATCTATATGGCCCCTGAAGTT
ATCAGTGCCCACGACTATAGCCAGCAGTGTGACATTTGGAGCATAGGCGTCGTAATGTACATGTTATTA
CGTGGAGAACCACCCTTTTTGGCAAGCTCAGAAGAGAAGCTTTTTGAGTTAATAAGAAAAGGAGAACTA
CATTTTGAAAATGCAGTCTGGAATTCCATAAGTGACTGTGCTAAAAGTGTTTTGAAACAACTTATGAAA
GTAGATCCTGCTCACAGAATCACAGCTAAGGAACTACTAGATAACCAGTGGTTAACAGGCAATAAACTT
TCTTCGGTGAGACCAACCAATGTATTAGAGATGATGAAGGAATGGAAAAATAACCCAGAAAGTGTTGAG
GAAAACACAACAGAAGAGAAGAATAAGCCGTCCACTGAAGAAAAGTTGAAAAGTTACCAACCCTGGGGA
AATGTCCCTGATGCCAATTACACTTCAGATGAAGAGGAGGAAAAACAGTCTACTGCTTATGAAAAGCAA
TTTCCTGCAACCAGTAAGGACAACTTTGATATGTGCAGTTCAAGTTTCACATCTAGCAAACTCCTTCCA
GCTGAAATCAAGGGAGAAATGGAGAAAACCCCTGTGACTCCAAGCCAAGGAACAGCAACCAAGTACCCT
GCTAAATCCGGCGCCCTGTCCAGAACCAAAAAGAAACTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

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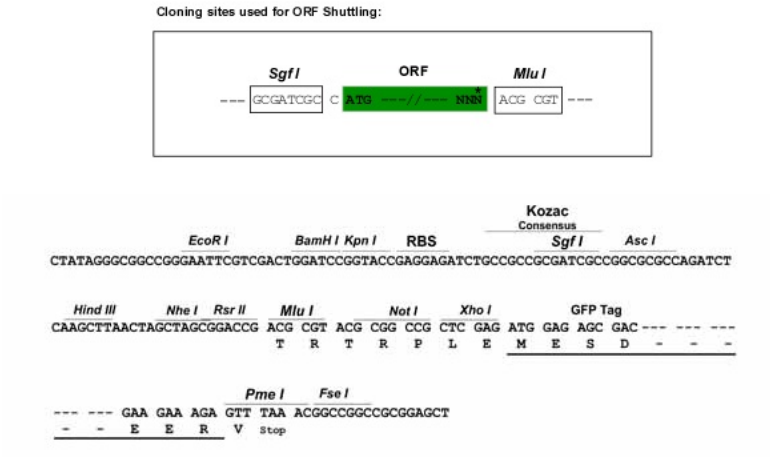
Protein Sequence:

>Peptide sequence encoded by RG238430
Blue=ORF Red=Cloning site Green=Tag(s)

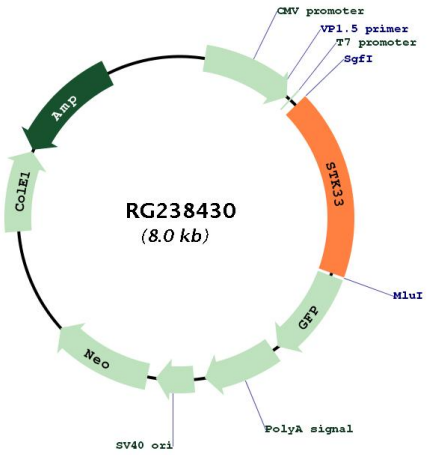
MSQTSSIGSAESLISLERKKEKNINRDITSRKDLPSRTSNVERKASQQQWGRGNFTEGKVPHIRIENGA
AIEEIYTFGRILGKGSFGIVIEATDKETETKWAIKKVNKEKAGSSAVKLLEREVNILKSVKHEHIIHLE
QVFETPKKMYLVMELCEDGELKEILDRKGHFSENETRWIIQSLASAIAYLHNNDIVHRDLKLENIMVKS
SLIDDNNEINLNIKVTDFGLAVKKQSRSEAMLQATCGTPIYMAPEVISAHDYSQQCDIWSIGVVMYMLL
RGEPPFLASSEEKLFELIRKGELHFENAVWNSISDCAKSVLKQLMKVDPAHRITAKELLDNQWLTGNKL
SSVRPTNVLEMMKEWKNNPESVEENTTEEKNKPSTEEKLKSYQPWGNVPDANYTSDEEEEKQSTAYEKQ
FPATSKDNFDMCSSSFTSSKLLPAEIKGEMEKTPVTPSQGTATKYPAKSGALSRTKKKL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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).
RefSeq:	NM_001289058.2
RefSeq Size:	2350 bp
RefSeq ORF:	1422 bp
Locus ID:	65975
UniProt ID:	Q9BYT3
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]