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Product datasheet for SC323587

STK33 (NM_030906) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK33 (NM_030906) Human Untagged Clone
Tag:	Tag Free
Symbol:	STK33
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_030906, the custom clone sequence may differ by one or more nucleotides

ATGGCTGATAGTGGCTTAGATAAAAAATCCACAAAATGCCCCGACTGTTCATCTGCTTCTCAGAAAGATG
TACTTTGTGTATGTTCCAGCAAAACAAGGGTTCCTCCAGTTTTGGTGGTGGAAATGTCACAGACATCAAG
CATTGGTAGTGCAGAATCTTTAATTTCACTGGAGAGAAAAAAAGAAAAAAATATCAACAGAGATATAACC
TCCAGGAAAGATTTGCCCTCAAGAACCTCAAATGTAGAGAGAAAAGCATCTCAGCAACAATGGGGTCGGG
GCAACTTTACAGAAGGAAAAGTTCCTCACATAAGGATTGAGAATGGAGCTGCTATTGAGGAAATCTATAC
CTTTGGAAGAATATTGGGAAAAGGGAGCTTTGGAATAGTCATTGAAGCGACAGACAAGGAAACAGAAACG
AAGTGGGCAATTAAAAAAGTGAACAAAGAAAAGGCTGGAAGCTCTGCTGTGAAGTTACTTGAACGAGAGG
TGAACATTCTGAAAAGTGTAAAACATGAACACATCATACATCTGGAACAAGTATTTGAAACGCCAAAGAA
AATGTACCTTGTGATGGAGCTTTGTGAGGATGGAGAACTCAAAGAAATTCTGGATAGGAAAGGGCATTTC
TCAGAGAATGAGACAAGGTGGATCATTCAAAGTCTCGCATCAGCTATAGCATATCTTCACAATAATGATA
TTGTACATAGAGATCTGAAACTGGAAAATATAATGGTTAAAAGCAGTCTTATTGATGATAACAATGAAAT
AAACTTAAACATAAAGGTGACTGATTTTGGCTTAGCGGTGAAGAAGCAAAGTAGGAGTGAAGCCATGCTG
CAGGCCACATGTGGGACTCCTATCTATATGGCCCCTGAAGTTATCAGTGCCCACGACTATAGCCAGCAGT
GTGACATTTGGAGCATAGGCGTCGTAATGTACATGTTATTACGTGGAGAACCACCCTTTTTGGCAAGCTC
AGAAGAGAAGCTTTTTGAGTTAATAAGAAAAGGAGAACTACATTTTGAAAATGCAGTCTGGAATTCCATA
AGTGACTGTGCTAAAAGTGTTTTGAAACAACTTATGAAAGTAGATCCTGCTCACAGAATCACAGCTAAGG
AACTACTAGATAACCAGTGGTTAACAGGCAATAAACTTTCTTCGGTGAGACCAACCAATGTATTAGAGAT
GATGAAGGAATGGAAAAATAACCCAGAAAGTGTTGAGGAAAACACAACAGAAGAGAAGAATAAGCCGTCC
ACTGAAGAAAAGTTGAAAAGTTACCAACCCTGGGGAAATGTCCCTGATGCCAATTACACTTCAGATGAAG
AGGAGGAAAAACAGTCTACTGCTTATGAAAAGCAATTTCCTGCAACCAGTAAGGACAACTTTGATATGTG
CAGTTCAAGTTTCACATCTAGCAAACTCCTTCCAGCTGAAATCAAGGGAGAAATGGAGAAAACCCCTGTG
ACTCCAAGCCAAGGAACAGCAACCAAGTACCCTGCTAAATCCGGCGCCCTGTCCAGAACCAAAAAGAAAC
TCTAA

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5' Read Nucleotide Sequence:

>OriGene 5' read for mutant NM_030906 unedited
ACCGCCGTTGAGCAATGGGCGGTAGGCGTGTACGGAAGGAGAGGTCTATATAAGCAGAGCTCGTTTAGTG
AACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGCGAATTCGGCACGAGGGCCCCCGTCCAC
TGCCCTGCGGTTGCTCTGCGGGCTGAAAAGTTTCTCCCGGTGCAGAATTCCGGGCTCAGCGACAGCCTGC
GCCGAGTGTGCGCACCTGTCGGAGACCCGCCAGTCCGCCGGCCGCGGCCTGAAGTTAAATCATTTTGGAA
AGTGATACAGCTCTCACGTGTGAATATGTGTCTAGTGCATCCTTTAACCTGAGGACTTCACCCAGTTCGA
AATTACAGTTTTCACCCATCAACTACCCTTATCCTTTTTGGCCTGTTTTTCTTCCTCAACAGTGGAAAAC
ATTTTTAAAGTTGCTTTTGTTTGCAAAGTTAACCAAAGGGTGGATATTGGCTTAAATAAAAATTCCCAAA
AATGCCCCGACTGTTCATCTGCTTTTAGAAAAAATGTACTTTTGTTTATTTTCCCCCAAAACAAGGGTTC
CTTCCAGTTTTGGGTGGGGGGAAATGTACCAGAACATCAGCCATTGGTAAGGGCAAAACCTTTTATTTTC
CCGGGAGGAAAAAAGAGAAAAATATTCCACAAAATTTTACCCTCCGAGAAAAAATTGCCCCCTGAAAACC
CCATGTTGAGAGAAAAACCTCTCCCCACCACCTGTGGGGCCGCGGGAGCAACTTCACAAAAGGAAAATCT
CCCCACATGGGTGTTGAAGAAGGAGGCTCTCTTTGGAAAAACTCACTCCTTGAGAAATAAATTTTGAAAA
GAGGGCTTCTTGGAAATACTCTATGCATCACCACAGAGAGACCACAACAAACCAGGTGCGCATTATAGTA
GATGCACACAAAGAGCGGCTGTCACCCCCTGCGCGGTAATCTGACGCAGCAGAGAGGATCCTACATGAAT
GTAGCATGCTATCACCTATCTGCTGTAGCAGGCATTGATGTGCTA

Kinase Domain Sequence:

>SC323587 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI refernce protein database, you can confirm the presence of the kinase-deficient mutation
TTRCTGCTATTGAGGAATCTATACCTTTGGAAGATATTGGGAAAAGGGAGCTTTGGAATAGTCATTGAAG
CTACAGACAAGGAAACAGAAACGAAGTGGGCAATTATGAAAGTGAACAAAGAAAAGGCTGGAAGCTCTGC
TGTGAAGTTACTTGAACGAGAGGTGAACATTCTGAAAAGTGTAAAACATGAACACATCATACATCTGGAA
CAAGTATTTGAAACGCCAAAGAAAATGTACCTTGTGATGGAGCTT

Restriction Sites: Please inquire

ACCN: NM_030906

Insert Size: 2500 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell. 2008 May p536-548.

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_030906.2, NP_112168.1
RefSeq Size:	2707 bp
RefSeq ORF:	1545 bp
Locus ID:	65975
UniProt ID:	Q9BYT3
Cytogenetics:	11p15.4
Protein Families:	Druggable Genome, Protein Kinase
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] Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1 and 4-11 all encode the same isoform (a).