

Product datasheet for **RG238657**

STK33 (NM_001289061) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	STK33 (NM_001289061) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	STK33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238657 representing NM_001289061.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGTGATAGTGGCTTAGATAAAAAATCCAAAAATGCCCGACTGTTTCATCTGCTTCTCAGAAAGAT
GTACTTTGTGTATGTTCCAGCAAAAACAGGGTTCCTCCAGTTTTGGTGGTGGAAATGTCACAGACATCA
AGCATTGGTAGTCAGAATCTTTAATTTCACTGGAGAGAAAAAAGAAAAAATATCAACAGAGATATA
ACCTCCAGGAAAGATTTGCCCTCAAGAACCTCAATGTAGAGAGAAAAGCATCTCAGCAACAATGGGGT
CGGGGCAACTTTACAGAAGGAAAAGTTCCTCACATAAGGATTGAGAATGGAGCTGCTATTGAGGAAATC
TATACCTTTGGAAGAATATTGGGAAAAGGGAGCTTTGGAATAGTCATTGAAGCTACAGACAAGGAAACA
GAAACGAAGTGGCAATTAAAAAGTGAACAAAGAAAAGGCTGGAAGCTCCGCTGTGAAGTACTTGAA
CGAGAGGTGAACATTCTGAAAAGTGTAAACATGAACACATCATACATCTGGAACAAGTATTTGAAACG
CCAAAGAAAATGTACCTTGTGATGGAGCTTTGTGAGGATGGAGAAGTCAAAGAAATCTGGATAGGAAA
GGGCAATTTCTCAGAGAATGAGACAAGGTGGATCATTCAAAGTCTCGCATCAGCTATAGCATATCTTAC
AATAATGATATTGTACATAGGGATCTGAAACTGGAATAATAATGGTTAAAAGCAGTCTTATTGATGAT
AACAAATGAAATAAACTTAAACATAAAGGTGACTGATTTTGGCTTAGCGGTGAAGAAGCAAAGTAGGAGT
GAAGCCATGCTGCAGGCCACATGTGGGACTCCTATCTATATGGCCCTGAAGTTATCAGTGCCACAGAC
TATAGCCAGCAGTGTGACATTTGGAGCATAGGCGTCGTAATGTACATGTTATTACGTGGAGAACCACCC
TTTTTGGCAAGCTCAGAAGAGAAGCTTTTTGAGTTAATAAGAAAAGGAGAAGTACATTTTGAAAATGCA
GTCTGGAATCCATAAGTACTGTGCTAAAAGTGTGTTTGAACAACCTTATGAAAGTAGATCTGCTCAC
AGAATCACAGCTAAGGAAGTACTAGATAACCAAGTGGTTAACAGGCAATAAACTTTCTTCGGTGAAGCA
ACCAATGATATTAGAGATGATGAAGGAATGGAAAAATAACCCAGAAAGTGTGAGGAAAACACAACAGAA
GAGAAGAATAAGCCGTCCACTGAAGAAAAGTTGAAAAGTTACCAACCCTGGGGAATGTCCTGAGACC
AATTACACTTCAGATGAAGAGGAGGAAAAACAGTCTACTACTTATGAAAAGCAATTTCTGCAACCAAGT
AAGGACAACCTTTGATATGTGCAGTTCAAGTTTCACATCTAGCAAACCTCCTCCAGCTGAAATCAAGGGA
GAAATGGAGAAAACCCCTGTGACTCCAAGCCAAGGAACAGCAACCAAGTACCCTGCTAAATCCGGCGCC
CTGTCCAGAACCAAAAAGAAACTC
ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTAAAC
```

Protein Sequence:

>Peptide sequence encoded by RG238657
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MADSGLDKKSTKCPDCSSASQKDVLCVCSKTRVPPVLVEMSQTSISGSAESLISLERKKEKNINRDI
TSRKDLPRTSNVERKASQQWGRGNFTEGKVPHIRIENGAAIEEYTFGRILGKGSFGIVIEATDKET
ETKWAIKVNKEKAGSSAVKLLERENVILKSVKHEHIHLEQVFETPKKMYLVMELCEDGELKEILDRK
GHFSENETRWIIQSLASAIAYLHNNDIVHRDLKLENIMVKSSLIDNNEINLNIKVDFGLAVKKQSRS
EAMLQATCGTPIYMAPEVISAHDYSQQCDIWSIGVVMYMLLRGEPPLASSEEKLFELIRKGFELFENA
VWNSISDCAKSVLKQLMKVDPAHRITAKELLDNQWL TGNKLSVVRPTNVLEMMKEWKNNPESVEENTTE
EKNKPSTEEKLSYQPWGNVPETNYTSDEEEEQSTTYEKQFPATSKDNFDMCSSSTSSKLLPAEIKG
EMEKTPVTPSQGTATKYPKSGALSRTKKKL
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

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).

RefSeq: [NM_001289061.1](#), [NP_001275990.1](#)

RefSeq Size: 2615 bp

RefSeq ORF: 1545 bp

Locus ID: 65975

UniProt ID: [Q9BYT3](#)

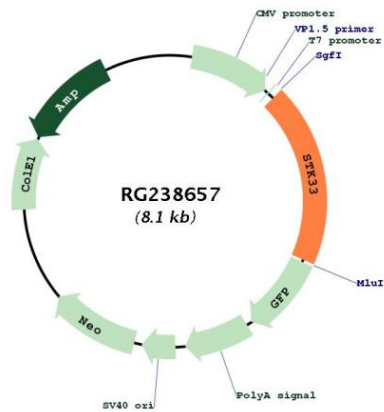
Cytogenetics: 11p15.4

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 RG238657