

## Product datasheet for **MG216720**

### Stk33 (NM\_054103) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Stk33 (NM_054103) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Stk33
Synonyms:	4921505G21Rik; AW061264
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG216720 representing NM\_054103  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCTGACCCAGCTTGAATGACAACCTACAGCATGCCCTCACTGTGCATCCTCTCAGGCTGGCCTAC  
 TGTGTGTATGTCCAGCAGCAAGTCTCCAGTCTGGTGGTGGAAATGTCACAGACATCGAGTATTGGTAG  
 TACAGAATTTTTGCTTCAAGAAGAAAAAGGAAAGAAATACCAGCAGAGAATCTTCTCTAAAAGAT  
 TTGTCCATAAGAACTTCAAATGTGGAGAGAAAACCTCAGGCACAATGGAGTCGGAGCAATGTCACAGTAG  
 GAAAAATCCACACATAAGAATGGACGATGGAGCAGGTATCGAGGAATCTATACCTTTGGAAGAATATT  
 GGGACAGGGGAGCTTTGGAATGGTCTTTGAAGCTATAGACAAGGAAACAGGAGCTAAGTGGGCAATAAA  
 AAAGTGAATAAGAAAAGGCTGGAAGTTCTGCAATGAAGCTACTGGAGCGGGAGGTGAGCATCCTGAAGA  
 CTGTCAACCATCAACACATCATCCACTGGAACAAGTGTGGAGTCGCCTCAGAAAATGTATCTCGTGAT  
 GGAGCTTTGTGAGGATGGAGAACTCAAAGCAGTTATGGATCAAAGAGGGCACTTCTCAGAGAACGAGACA  
 AGGCTGATAATCAAAGTCTTGATCAGCCATCGCATATCTTCATAACAAGGATATAGTGCACAGAGATC  
 TAAAGCTGAAAAACATAATGGTTAAAAGCAGCTTTATAGATGATAACAATGAAATGAACTTAAACATAAA  
 GGTGACTGATTTTGGCTTGTCTGTGCAGAAGCATGGCTCCAGGAGTGAAGGCATGATGCAGACTACATGT  
 GGGACTCCTATCTATATGGCACCAGAGGTCAATGCCATGACTACAGCCAGCAGTGTGACATTTGGA  
 GCATAGGTGTCAATGTTCACTTTACTGTGTGGAGAGCCACCCTTTTGGCAAATTCAGAAGAAAAAGCT  
 CTATGAATTAATAAAAAAGGGAAGTACGATTTGAAAATCCAGTCTGGGAATCTGTAAGTATTCTGCA  
 AAAAATACTTTGAAACAACATCATGAAAGTAGATCCTGCTCACAGAATCACAGCTAAGGAACTTCTAGATA  
 ACCAATGGTTGACAGGCAATACCCTTTCTCAGCAAGACCAACCAATGTATTAGAATGATGAAAGAAATG  
 GAAAAATAACCCAGAAAGTGATGAGGAGACCAACACAGATGAGGAGACTGAGCAGAGCGCTGTCTACAGT  
 CCATCTGCAAAACACAGCAAAGCAGCCACCAATGCAGCCAAGAAGCCTGCTGCAGAGAGTGTGGCATGA  
 CCTCTTCAAACATCATCGTCCAGCAAACCTCTGTCTGCTGAAAGCAAAGCAGAACCAGAGAAAAGCTCCGA  
 GACTGTAGGCCATGCATCAGTGGCTAAAACCACTCTGAAATCCACTACCTTGTTCGAGGCAAGAAAAGG  
 CTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG216720 representing NM\_054103  
 Red=Cloning site Green=Tags(s)

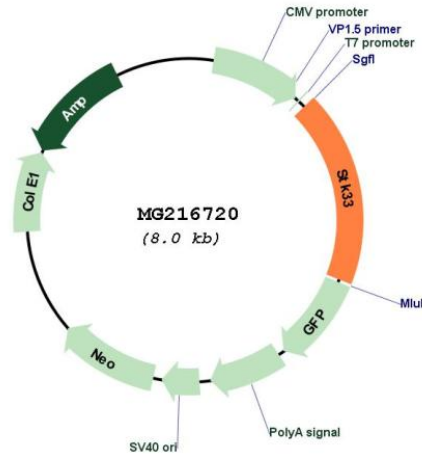
MADPSLNDNPTACPHCASSQAGLLCVCAPAGKSPVLVEMSQTSSTIGSTEFFASQERKKERNTSRESSLKD  
 LSIRTSNVERKPQAQWSRSNVTVGKIPHIRMDDGAGIEEFYTFGRILGQGSFGMVFEAIDKETGAKWAIK  
 KVNKEKAGSSAMKLLEREVSILKTVNHQHIHLEQVFESPOKMYLVMELCEDGELKAVMDQRGHFSENET  
 RLIIQSLASAIAYLHNKDIVHRDLKLENIMVKSSFIDDNNEMNLNIKVTDFGLSVQKHGSRSEGMMQTTC  
 GTPIYMAPEVINAHDYQQCDIWSIGVIMFILLCGEPPFLANSEEKLYELIKKGELRFENPVWESVSDSA  
 KNTLQMLMKVDPAHRITAKELLDNQWLTGNTLSSARPTNVLEMMKEWKNNPESDEETNTDEETEQSAYYS  
 PSANTAKQPTNAAKKPAAESVGMTSSNSSSKLLSAESKAPEKSSETVGHASVAKTTLKSTTLFRGKKR  
 L

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



**Plasmid Map:**


**ACCN:** NM\_054103

**ORF Size:** 1473 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\\_054103.1](#), [NP\\_473444.1](#)

**RefSeq Size:** 2402 bp

**RefSeq ORF:** 1476 bp

**Locus ID:** 117229

**UniProt ID:** [Q924X7](#)

**Cytogenetics:** 7 57.21 cM

**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. [UniProtKB/Swiss-Prot Function]