

Product datasheet for **RR208251**

Stk3 (NM_031735) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stk3 (NM_031735) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stk3
Synonyms:	MST2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR208251 representing NM_031735
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCAGCCGCCGCCCAAGAGTAAGCTAAAAAGCTGAGTGAAGACAGTTTGACTAAGCAGCCTG
 AAGAGGTCCTTTGATGTTTTGGAGAAGCTTGGAGAAGGGTCTTATGGAAGTGTTTTTAAAGCAATACATAA
 GGAATCTGGTCAAGTTGTTGCAATTAAGCAAGTACCTGTTGAGTCAGATGTTTCAGAAAATATCAAAGAA
 ATTTCCATAATGCAACAATGTGACAGCCCTTACGTGGTGAAGTACTATGGCAGTACTTTAAGAACACAG
 ACCTCTGGATTGTTATGGAGTACTGTGGGGCCGGTCCGTTTCAGACATAATTAGATTACGAAAACAGAC
 ATTAACGGAAGATGAAATTGCAACTATTCTAAAAATCCACGTTGAAAGGATTAGAATATTTGCATTTTATG
 AGGAAAAACACAGAGATATAAAAGCTGGGAATATTCTCCTCAATACAGAAGGACATGCAAAGCTTGCAG
 ATTTTGGAGTGGCTGGCCAGTTAACAGACACGATGGCAAACGCAATACTGTAATAGGAACCCCGTTTTG
 GATGGCTCCCGAGGTAATTCAAGAAATAGTTACAACGTGTGGCTGACATCTGGTCCCTTGGCATTACG
 TCTATAGAAATGGCAGAAGGAAAACCTCCTTATGCTGATATACATCCAATGAGGGCTATTTTTATGATTC
 CTACAAACCCACCACCAACATTCAGGAAACCTGAGCTCTGGTCTGACGACTTCACGGATTTTGTGAAGAA
 GTGCTTGGTGAAGAGTCTGAGCAGAGGGCCACTGCCACCAGCTGTTACAGCATCCTTTTCATCAAGAAT
 GCGAAGCCCGTGTGATATTGAGAGAGCTGATCACGGAAGGCAATGGAATCAAGGCCAAGCGGCATGAGG
 AGCAGCAGCGAGAGCTGGAGGACGAGGAGGAAAACCTCGGATGAAGATGAGCTGGATTGCGACACTATGGT
 GAAGACTAGTTTCAAGAGGTGTGGGCACAATGCGGGCCACCAGCACGATGAGTGAAGGGGCCAGACCATG
 ATTGAACACAACAGCACCATGCTAGAGTCGGACCTGGGGACCATGGTGATAAACAGTGAAGGATGAAGAGG
 AGGAAGACGGAACCATGAAAAGAAATGCAACGTACCCCAAGTACAAAGACCTTTTTCATGGACTACTT
 TGATAAGCAGGACTTCAAGAACAAGAGTCATGAAAATTGTGATCAGAGCATGCGTGAGCCATGCCCTATG
 TCAAACAATGTTTTCTGACAACCTGGAGAGTTCCTCAAGATGGAGACTTTGATTTTTTAAAAAATCTAA
 GTTTAGAAGAACTACAGATGCGGCTAAAAGCACTGGACCCATGATGGAACGAGAAATAGAAGAACTGCA
 TCAAAGATACAGTGCAGAAAGACAGCCATCCTGGATGCCATGGATGCCAAAAAGAGGAGGCAGCAGAAT
 TTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208251 representing NM_031735
 Red=Cloning site Green=Tags(s)

MEQPPAPKSKLKKLSEDSLTKQPEEVFDVLEKLGESYGSVFKAIHKESGQVVAIKQVPVESDVQEIIKE
 ISIMQQCDSPYVVKYYSYFKNTDLWIVMEYCGAGSVSDIIRLRNKLTETEIATILKSTLKGLEYLHFM
 RKIHRDIKAGNILLNTEGHAKLADFGVAGQLTDTMAKRNTVIGTPFWMAPEVIQIEIGYNCVADIWSLGIT
 SIEMAEGKPPYADIHPMRAIFMIPTNPPPTFRKPELWSDDFDFVKKCLVKSPEQRATATQLLQHPFIKN
 AKPVSILRELITEGMEIKAKRHEEQRELEDEEENSDEDELDSHTMVKTSSEGVTMRATSTMSEGAQTM
 IEHNSTMLESDLGTMVINSEDEEEDGTMKRNATSPQVQRPSFMDYFDKQDFKNKSHENCDSMREPCPM
 SNNVFPDNWRVPQDGFDFLKNLSLEELQMRLKALDPMEREIEELHQRYSAKRQPILDAMDAKRRRQQN
 F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

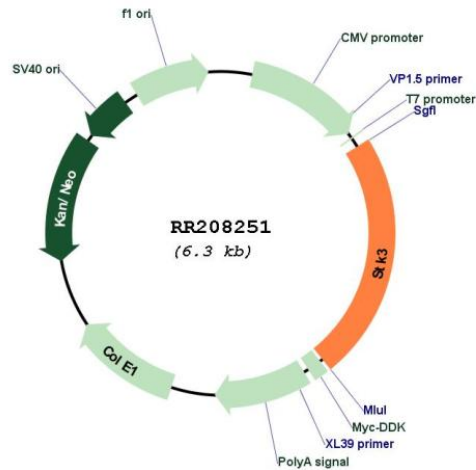
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_031735

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_031735.1](#), [NP_113923.1](#)

RefSeq Size: 2610 bp

RefSeq ORF: 1476 bp

Locus ID: 65189

UniProt ID: [O54748](#)

Cytogenetics: 7q22

MW: 56.1 kDa

Gene Summary: has serine/threonine kinase activity; catalyzes the phosphorylation of thyroid transcription factor-1 [RGD, Feb 2006]