

Product datasheet for **RR207737**

Stk24 (NM_001127494) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Stk24 (NM_001127494) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Stk24
Synonyms: MST-3; Mst3b; RGD1561742
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR207737 representing NM_001127494
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCCACTCCCGGTGCAGTCGGGCCTGCCGGCATGCAGACCCTGAAAGCAGACCCAGAAGAGCTTT
TTACCAAGCTGGAGAAAATTGAAAAGGGCTCCTTTGGTGAGGTGTTCAAAGGCATCGACAATCGGACTCA
GAAAGTGGTTGCCATAAAAATCATTGATCTGGAAGAAGCGGAGGACGAGATAGAGGACATTCAACAAGAG
ATCACAGTGCTGAGCCAGTGTGACAGTCCGTACGTACCAAGTATTATGGATCCTATCTCAAGGATACTA
AATTATGGATAATCATGGAGTATCTCGGTGGAGGCTCTGCCCTGGATCTGTTAGAACCTGGCCCTTTAGA
TGAAATTCAGATTGCAACCATTCTACGAGAGATTCTGAAAGGACTTGATTATCTACACTCAGAGAAGAAA
ATCCACAGAGATATTAAGCGGCCAATGTTCTGCTCTGAACATGGAGAGGTGAAGCTGGCTGACTTTG
GAGTGGCTGGCCAGCTGACGGATACCCAGATAAAAAGGAACACCTTCGTGGGCACCTCCTTCTGGATGGC
GCCTGAGGTCAATCAAGCAGTCAGCCTACGACTCAAAGGCGGACATCTGGTCCCTCGGCATCACAGCCATA
GAACTGGCCAAAGGCGAGCCGCCACATTCTGAGCTGCACCCATGAAGGTGCTGTTCTTATCCCAAAGA
ACAACCTCCACGCTGGAGGGCAGCTACAGCAGACCCCTCAAGGAGTTCTGGAGGCCTGCCTGAACAA
GGAGCCAGCTTCAGGCCACTGCTAAGGAGTTATTGAAGCACAATTTATAATCCGCAATGCAAAGAAA
ACGTCTACCTGACTGAGCTCATCGACAGGTACAAGAGGTGGAAGGCGGAGCAGAGTACAGGACTCCA
GCTCGGAGGACTCAGATGTGGAGACAGATAGCCAGGCGTCTGGAGGCAGGACTCTGGGGACTGGATCTT
TACCATCCGGGAGAAAGACCCCAAGAACTGGAGAACGGAACCTTCAGCCCTCAGATTTGGAAAGAAAT
AAGATGAAAGACTTCCCAAAGAGGCCCTTCTCAGTGTGTCCACAATCATTTCTCCTCTGTTTGCGG
AGCTGAAAGAGAAGAGCCAGGCGTGTGGAGGGAACCTGGGGTCAATAGAAGAGCTTCGGGGAGCCATCTA
CTTGCCGGAAGAGCCTGCCCTGGGATCTCCGACACCATGGTGGCACAGCTTGACAACGGCTGCAGAGA
TATTCTCTGAGCGGTGGAGGAGCCTCAGCGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



ORF Size:	1293 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:	<ol style="list-style-type: none">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_001127494.1 , NP_001120966.1
RefSeq Size:	1350 bp
RefSeq ORF:	1296 bp
Locus ID:	361092
UniProt ID:	B0LT89
Cytogenetics:	15q24
MW:	48 kDa
Gene Summary:	Serine/threonine-protein kinase that acts on both serine and threonine residues and promotes apoptosis in response to stress stimuli and caspase activation. Mediates oxidative-stress-induced cell death by modulating phosphorylation of JNK1-JNK2 (MAPK8 and MAPK9), p38 (MAPK11, MAPK12, MAPK13 and MAPK14) during oxidative stress. Plays a role in a staurosporine-induced caspase-independent apoptotic pathway by regulating the nuclear translocation of AIFM1 and ENDOG and the DNase activity associated with ENDOG. Phosphorylates STK38L on 'Thr-442' and stimulates its kinase activity. In association with STK26 negatively regulates Golgi reorientation in polarized cell migration upon RHO activation. Regulates also cellular migration with alteration of PTPN12 activity and PXN phosphorylation: phosphorylates PTPN12 and inhibits its activity and may regulate PXN phosphorylation through PTPN12 (By similarity). Acts as a key regulator of axon regeneration in the adult optic nerve and radial nerve.[UniProtKB/Swiss-Prot Function]