

## Product datasheet for **RN207737**

### Stk24 (NM\_001127494) Rat Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Stk24 (NM\_001127494) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Stk24  
**Synonyms:** MST-3; Mst3b; RGD1561742  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN207737 representing NM\_001127494  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCCCACTCCCGGTGCAGTCGGGCCTGCCGGGCATGCAGACCCTGAAAGCAGACCCAGAAGAGCTTT  
 TTACCAAGCTGGAGAAAATTGAAAAGGGCTCCTTTGGTGAGGTGTTCAAAGGCATCGACAATCGGACTCA  
 GAAAGTGGTTGCCATAAAAATCATTGATCTGGAAGAAGCGGAGGACGAGATAGAGGACATTCAACAAGAG  
 ATCACAGTGTGAGCCAGTGTGACAGTCCGTACGTACCAAGTATTATGGATCCTATCTCAAGGATACTA  
 AATTATGGATAATCATGGAGTATCTCGGTGGAGGCTCTGCCCTGGATCTGTTAGAACCTGGCCCTTTAGA  
 TGAAATTCAGATTGCAACCATTCTACGAGAGATTCTGAAAGGACTTGATTATCTACACTCAGAGAAGAAA  
 ATCCACAGAGATATTAAGCGGCCAATGTTCTGCTCTGAACATGGAGAGGTGAAGCTGGCTGACTTTG  
 GAGTGGCTGGCCAGCTGACGGATACCCAGATAAAAAGGAACACCTTCGTGGGCACCTCCTTCTGGATGCC  
 GCCTGAGGTCAACAAGCAGTCAGCCTACGACTCAAAGGCGGACATCTGGTCCCTCGGCATCACAGCCATA  
 GAACTGGCCAAAGGCGAGCCGCCACATTCTGAGCTGCACCCATGAAGGTGCTGTTCTTATCCCAAAGA  
 ACAACCTCCACGCTGGAGGGCAGCTACAGCAGACCCCTCAAGGAGTTCTGGAGGCTGCCTGAACAA  
 GGAGCCAGCTTCAGGCCACTGCTAAGGAGTTATTGAAGCACAATTTATAATCCGCAATGCAAAGAAA  
 ACGTCCTACCTGACTGAGCTCATCGACAGGTACAAGAGGTGGAAGGCGGAGCAGAGTCACAGGACTCCA  
 GCTCGGAGGACTCAGATGTGGAGACAGATAGCCAGGCGTCTGGAGGCAGGACTCTGGGGACTGGATCTT  
 TACCATCCGGGAGAAAGACCCCAAGAACTGGAGAACGGAACCTTCAGCCCTCAGATTTGGAAAGAAAT  
 AAGATGAAAGACTTCCCAAAGAGGCCCTTCTCAGTGTGTCCACAATCATTCTCCTCTGTTTGCGG  
 AGCTGAAAGAGAAGAGCCAGGCGTGTGGAGGGAACCTGGGGTCAATAGAAGAGCTTCGGGGAGCCATCTA  
 CTTGGCGGAAGAGGCTGCCCTGGGATCTCCGACACCATGGTGGCACAGCTTGACAACGGCTGCAGAGA  
 TATTCTGAGCGGTGGAGGAGCCTCAGCGCAC**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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|                               |  |
|-------------------------------|--|
| <b>Restriction Sites:</b>     | Sgfl-Mlul  |
| <b>ACCN:</b>                  | NM_001127494   |
| <b>Insert Size:</b>           | 1296 bp  |
| <b>OTI Disclaimer:</b>        | 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).   |
| <b>Components:</b>            | 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).   |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <u><a href="#">NM_001127494.1</a></u> , <u><a href="#">NP_001120966.1</a></u>  |
| <b>RefSeq Size:</b>           | 1350 bp  |
| <b>RefSeq ORF:</b>            | 1296 bp  |
| <b>Locus ID:</b>              | 361092   |
| <b>UniProt ID:</b>            | <u><a href="#">B0LT89</a></u>  |
| <b>Cytogenetics:</b>          | 15q24  |
| <b>Gene Summary:</b>          | 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] |