

Product datasheet for **MR206874**

Stk24 (NM_145465) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Stk24 (NM_145465) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Stk24
Synonyms:	1810013H02Rik; C76483; MST-3; Mst3; STE20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR206874 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCCCACTCCCGGTGCAGTCGGGCCTGCCGGCATGCAGAACCTGAAAGCAGACCCAGAAGAGCTTT
 TTACCAAGCTAGAGAAGATTGAAAGGGCTCTTTTGGTGAAGTGTCAAAGGCATTGACAATCGGACTCA
 GAAAGTGGTGGCCATAAAAATCATTGATCTGGAAGAAGCCGAGGACGAGATAGAGGACATCCAACAAGAG
 ATCACAGTGTGAGCCAGTGTGACAGTCCCTACGTACCAAGTACTATGGATCCTATCTCAAGGATACTA
 AGTTGTGGATAATCATGGAGTATCTTGGTGGAGGCTCTGCCCTGGATCTGTTAGAGCCTGGCCCTTTAGA
 TGAATTCAGATTGCAACCATATTACGAGAAATCTGAAAGGACTTGATTATCTACACTCGGAGAAGAAA
 ATTCACAGAGATATTAAGCGGCCAATGTTCTGCTCTCTGAACATGGAGAGGTGAAGCTGGCAGACTTTG
 GAGTGGCCGGCCAGCTGACGGATACCCAGATCAAAGGAACACCTTCGTGGGTACCCCTTCTGGATGGC
 GCCGGAGTTCATCAAGCAGTCAGCCTACGACTCAAAGGCAGACATCTGGTCCCTTGGCATACCCGAATA
 GAACTGGCCAAAGGAGAGCCACCACATTCTGAGCTGCACCCCATGAAGGTGTTATTCCTCATCCCAAGA
 ACAACCTCCCACTGGAAGGGAACACAGCAAAACCCCTCAAGGAGTTCGTGGAGGCTGCCTGAACAA
 GGAGCCAGCTTTAGGCCACTGCTAAGGAATTATTGAAGCACAATTCATAATCCGCAATGCAAAGAAA
 ACGTCTACTTGACCGAGCTTATCGACAGGTACAAGAGGTGGAAGGCGGAGCAGAGCCACGAGGACTCCA
 GCTCGGAGGACTCTGACGTGGAGACAGATGGCCAGGCTCTGGAGGCAGCGACTCTGGGGACTGGATCTT
 CACTATCCGGGAGAAAGATCCCAAGAATCTGGAGAACGGAACCTTCAGCTCTCGGACTTGAAAGAAAT
 AAGATGAAAGATATCCCAAGAGGCCTTCTCTCAGTGTATCCACAATCATTTCTCCTCTGTTTGGCGG
 AGCTGAAAGAGAAGAGCCAGGCATGCGGAGGGAACCTTGGGTCAATAGAAGAGCTGCGGGGAGCCATCTA
 CTGGCGGAAGAGGCCTGCCCTGGGATCTCAGACACTATGGTGGCACAGCTTGTGCAGCGGCTGCAGAGA
 TATTCTCTGAGTGGCGGAGGAGCCTCAGCGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR206874 protein sequence
 Red=Cloning site Green=Tags(s)

MAHSPVQSGLPQMQLKADPEELFTKLEKIGKGSFGEVFKGIDNRTQKVVAIKIIDLEEADEIEDIQQE
 ITVLSQLDSPYVTKYYGSKLDTKLWIIMEYLGGSALDLEPGPLDEIQIATILREILKGLDYLHSEKK
 IHRDIKAAANVLLSEHGEVKLADFGVAGQLTDTQIKRNTFVGTFFWMAPEVIKQSAYDSKADIWSLGITAI
 ELAKGEPHSELHPMKVLFLLIPKNNPPTLEGNYSKPLKEFVEACLNKEPSFRPTAKELLKHKFIIIRNAKK
 TSYLTELIDRYKRWKAEQSHEDSSSESDVETDQGASGGSDSGDWIFTIREKDPKNLENTLQLSDLERN
 KMKDIPKRPFSQCLSTIISPLFAELKEKSQACGGNLGSIIEELRGAIYLAEEACPGISDTMVAQLVQRLQR
 YLSGGGASAH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_145465

ORF Size: 1296 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

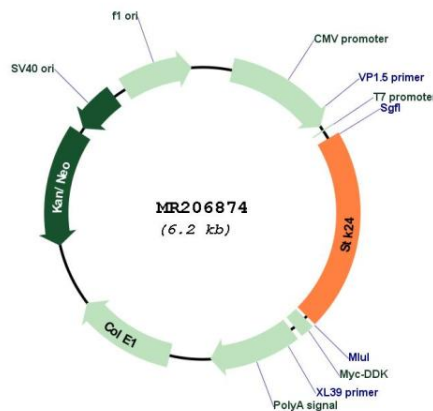
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_145465.2](#), [NP_663440.1](#)

RefSeq Size: 2575 bp
RefSeq ORF: 1296 bp
Locus ID: 223255
UniProt ID: [Q99KH8](#)
Cytogenetics: 14 64.95 cM
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. Acts as a key regulator of axon regeneration in the optic nerve and radial nerve (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206874