

Product datasheet for MR224222

Tssk4 (NM_027673) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tssk4 (NM_027673) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tssk4
Synonyms: 1700020B19Rik; 4933424F08Rik; TSK-4; TSSK-4
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR224222 representing NM_027673
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAAGGGAGACACCTCGGAAACAGCATCAGCCACCCAGCCTATCGCTCTGTCATGGAGGAGTATG
 GTTATGAGGTGGCAAGATCATTGGCCATGGCTCCTATGGAAGTGTCTATGAGGCATACTACACAAAGCA
 GAAGGTCATGGTGGCTGTCAAGATCATCTCGAAGAAGAAGGCCTCTGAAGACTATCTCAACAAGTTCCTA
 CCACGTGAGATACAGGTAATGAAAGTCTACGGCACAAGTACCTCATCAACTTCTATCAGGCCATTGAGA
 CCACATCCCGAGTATACATCATTGGAGCTGGCTCAGGGCGGTGATGTCCTCGAATGGATCCAACGATA
 TGGGGCCTGTGCTGAGACCCCTTGTGGCAAGTGGTTCTCCAGATGGCTTTGGGCATCGCCTACCTGCAC
 AGCAAGGGCATCGTGCACCGGATTTAAAGTTGGAGAACCCTGTTGCTGGACAAGCGGGAGAATGTGAAGA
 TATCGGACTTTGGCTTCGCCAAGATGGTGCCTTAGCCAGCCTGTGCATAGTAGCCCTTCTTACCGCCA
 AATGAACAGCCTTTCCACCTCAGCCAGACCTACTGTGGCAGCTTTGCTTACGCCTGCCCGGAGATCTTG
 CTAGGCTTGCCTACAACCCTTCTGTCTGACACCTGGAGCATGGGCGTCATCCTTACACTCTAGTGG
 TTGCACGGCTGCCCTTTGATGACACCAATCTCAAGAAGCTGTGAGAGAAACCCAGAAGGAGGTCACCTT
 CCCAGCTAACTTGACCATCTCCAGGAGTGCAAGAACCTGATCCTCCAGCTGCTACGCCAATCTACCAAG
 CGTGCCACCATCCTAGATGTCTCAGGGACCCCTGGATGCTCAAGTTCAGCCTGAGCAACCTTCGAATG
 AAATCAGGCTGCTCGAGGCCATGTACCAACCCACCAGCTCTGCTAAACGGCACCGTCTTGGAAATCAC
 AAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR224222 representing NM_027673
Red=Cloning site Green=Tags(s)

MGKGD TSETASATPAYR SVMEEYGYEVGKIIGHGSYGTVYEAYYTKQKVMVAVKII SKKKASEDYLNKFL
 PREIQVMKVL RHKYLINFYQAIETT SRVYIILELAQGGDVLEWIQRYGACAETLAGKWF SQMALGIAYLH
 SKGIVHRDLKLENLLLDKRENVKISDFGFAKMPSSQP VHSPPSYRQMNSLSHL SQT YCGSFAYACPEIL
 LGLPYNPFLSDTWSMGVILYTLVVARLPFDDTNLKKLLRETQKEVTFPANLTISQECKNLILQLLRQSTK
 RATILDVLRDPWMLKFQPEQPSNEIRLLEAMYQPTSSAKRHQSLEITT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9010_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_027673

ORF Size: 984 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_027673.3](#), [NP_081949.1](#)

RefSeq Size: 1237 bp

RefSeq ORF: 987 bp

Locus ID: 71099

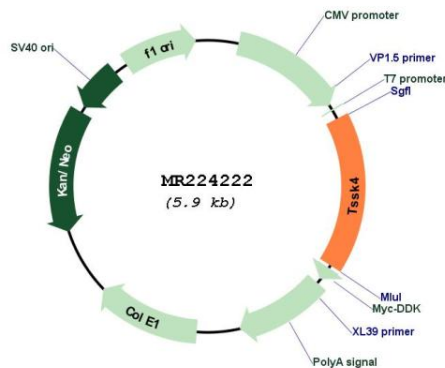
UniProt ID: [Q9D411](#)

Cytogenetics: 14 C3

MW: 37.8 kDa

Gene Summary: Isoform 1: Serine/threonine kinase which is involved in male germ cell development and in mature sperm function (PubMed:17927909, PubMed:23599433, PubMed:23054012, PubMed:25361759, PubMed:26940607). May be involved in the Cre/Creb signaling pathway (PubMed:26940607). Phosphorylates CREB1 on 'Ser-133' in vitro and can stimulate Cre/Creb pathway in cells (By similarity). Phosphorylates CREM on 'Ser-116' in vitro (PubMed:26940607). Phosphorylates ODF2 on 'Ser-95' (PubMed:26961893).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224222