

Product datasheet for MR229338

Tssk4 (NM_001253888) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tssk4 (NM_001253888) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tssk4
Synonyms: 1700020B19Rik; 4933424F08Rik; TSK-4; TSSK-4
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229338 representing NM_001253888
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGGGAAGGGAGACACCTCGGAAACAGCATCAGCCACCCAGCCTATCGCTCTGTCATGGAGGAGTATG
GTTATGAGGTGGCAAGATCATTGGCCATGGCTCCTATGGAAGTGTCTATGAGGCATACTACACAAAGCA
GAAGGTCATGGTGGCTGTCAAGATCATCTCGAAGAAGAAGGCCTCTGAAGACTATCTCAACAAGTTCCTA
CCACGTGAGATACAGGTAATGAAAGTCTACGGCACAAGTACCTCATCAACTTCTATCAGGCCATTGAGA
CCACATCCCGAGTATACATCATTTTGGAGCTGGCTCAGGGCGGTGATGTCCTCGAATGGATCCAACGATA
TGGGGCCTGTGCTGAGACCCCTTGTGGCAAGTGGTTCTCCAGATGGCTTTGGGCATCGCCTACCTGCAC
AGCAAGGGCATCGTGCACCGCTGACCCCGAGCCTTTCTGCTGCTGGTAGGGATTTAAAGTTGGAGAACC
TGTTGCTGGACAAGCGGGAGAATGTGAAGATATCGGACTTTGGCTTCGCCAAGATGGTGCCTTCTAGCCA
GCCTGTGCATAGTAGCCCTTCTACCGCCAAATGAACAGCCTTTCCACCTCAGCCAGACCTACTGTGGC
AGCTTTGCTTACGCCTGCCCGGAGATCTTGCTAGGCTTGCCTACAACCCTTTCTGTCTGACACCTGGA
GCATGGGCGTCATCCTCTACACTCTAGTGGTTGCACGGCTGCCCTTTGATGACACCAATCTCAAGAAGCT
GCTGAGAGAAACCAGAAGGAGTCACTTTCCAGCTAACTTGACCATCTCCAGGAGTGAAGAACCCTG
ATCCTCCAGCTGTACGCCAATCTACCAAGCGTGCCACCATCCTAGATGTCTCAGGGACCCCTGGATGC
TCAAGTCCAGCCTGAGCAACCTTGAATGAAATCAGGCTGCTCGAGGCCATGTACCAACCACCAGCTC
TGCTAACGGCACCAGTCTTGGAAATCACAACC

ACGGTACGGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229338 representing NM_001253888
Red=Cloning site Green=Tags(s)

MGKGDTSATATPAYRSMEEYGYEVGKIIGHGSYGTVEAYYTKQKVMVAVKIISKKKASEDYLKFL
 PREIQVMKVLRHKYLINFYQAIETTSTRVYIILELAQGGDVLEWIQRYGACAETLAGKWFSQLGAIYHL
 SKGIVHRLTPSLSAAGRDLKLENLLLDKRENVKISDFGFAKMPVSSQPVHSSPSYRQMNSLSHLSTQTYCG
 SFAYACPEILLGLPYNPFLSDTWSMGVILYTLVVARLPFDDTNLKKLLRETQKEVTFPANLTIISQECKNL
 ILQLLRQSTKRATILDVLRDPWMLKFQPEQPSNEIRLLEAMYQPTSSAKRHQSLEITT

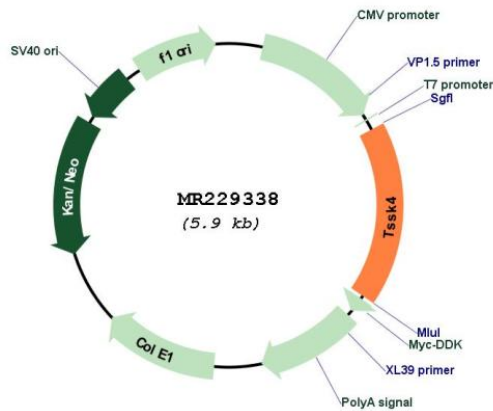
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001253888

ORF Size: 1014 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_001253888.1 , NP_001240817.1
RefSeq Size:	1273 bp
RefSeq ORF:	1017 bp
Locus ID:	71099
UniProt ID:	Q9D411
Cytogenetics:	14 C3
MW:	38.8 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]