

Product datasheet for MR205606

Tssk1 (NM_009435) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tssk1 (NM_009435) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tssk1
Synonyms:	Stk22a; TSK-1; Tsk1; Tssk; Tssk1b
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205606 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGACGCTGCCGTCTCAAGCGACGAGGCTACATCATGGGGATAAACTTGGGAGAGGGCTCATATG
CCAAAGTCAAATCCGCTTACTCTGAGCGCTAAAGTTCAACGTGGCGGTCAAGATCATCGATCGCAAGAA
AGCCCCCTCAGACTTCTGGAGAAATTCCTTCCCCGGGAGATTGAGATTCTGGCCATGCTAAACCACCGC
TCTATTGTCAAGACCTATGAGATCTTTGAGACATCAGATGGCAAGGTCTACATTGTCATGGAGCTTGGGG
TCCAGGGTGACCTCCTCGAGTTCATCAAACCAGAGGAGCCCTGCAAGAGGATGATGCTCGAAAGAAGTT
CCACCAGCTCTCCTCGGCCATCAAGTACTGCCACGACCTGGATGTCGTCCACCGAGACCTCAAATGTGAG
AACCTTCTGCTTGACAAGGACTTCAACATCAAACCTGTCTGACTTCGGCTTCTCCAAGCGCTGCTTGGCGG
ATGATAGTGGTCGACTGATTAAGCAAGACCTTCTGTGGGTGAGCAGCTTATGCGGCCCCCGAGGTGCT
GCAGGGCATCCCCACCAGCCAAAGGTGTATGACATCTGGAGCCTGGGTGTGATTCTCTACATCATGGTC
TGTGGCTCCATGCCCTACGATGACTCCAACATCAAAAAGATGCTGCGCATCCAGAAGGAGCACCGTGTCA
ACTTCCACGCTCTAAACACCTGACTGGTGAGTGCAAGGACCTCATCTACAGAATGTTACAGCCAGATGT
CAACCGCCGGCTGCACATCGATGAGATCCTTAACCACTGCTGGGTGCAGCCCAAGGCACGAGGTCTGTCC
TCTGGACCATCAACAAGGAGGGGAAAGCTCCCGGCCACTGAGCCCTCATGGATCCCTGAACCTGGTG
CTGATAAGAAGTCTGCCACCAAGTTGGAGCCTAGGGAAGAGGCACGATCTGAGGCCCGGTCTGAGTCAAA
ACCCAGGAAGATACTTTGCAGGTGGTCAGGCAGTCAGAGAACGTGGGCCTCAGCAGCGAACTGAACAGG
GACACAGAGGAAGGGCACCCCAACAGCCTTCAGAGACACATACT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR205606 protein sequence
 Red=Cloning site Green=Tags(s)

MDDAAVLKRRGYIMGINLGEESYAKVKLSAYSERLKFNVAVKIIDRKKAPSDFLFKFLPREIEILAMLNHR
 SIVKTYEIFETSDGKVIYIMELGVQGDLLLEFIKTRGALQEDDARKKFHQLSSAIKYCHDLDVVHRDLKCE
 NLLLDKDFNIKLSDFGFSKRCLRDDSGRLILSKTF CGSAAAYAPEVLQGIPIYQPKVYDIWSLGVILYIMV
 CGSMPYDDSNIKMLRIQKEHRVNFPRSKHLTGECKDLIYRMLQPDVNRRLHIDEILNHCWVQPKARGLS
 SGAINKEGESSRATESWIPEPGADKKSATKLEPREEARSEARSESKPQEDTLQVVQRQSENVGLSSELNR
 DTEEGHPQPSEHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_009435

ORF Size: 1098 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_009435.2](#), [NP_033461.2](#)

RefSeq Size: 1466 bp

RefSeq ORF: 1098 bp

Locus ID: 22114

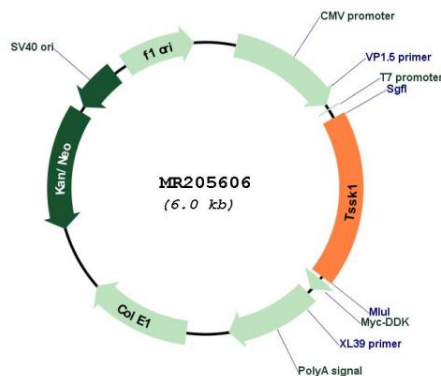
UniProt ID: [Q61241](#)

Cytogenetics: 16 11.09 cM

MW: 41.6 kDa

Gene Summary: Testis-specific serine/threonine-protein kinase required during spermatid development (PubMed:20053632, PubMed:23599433). Phosphorylates 'Ser-281' of TSKS (PubMed:20053632). Involved in the late stages of spermatogenesis, during the reconstruction of the cytoplasm (PubMed:20053632). During spermatogenesis, required for the transformation of a ring-shaped structure around the base of the flagellum originating from the chromatoid body (PubMed:20053632).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205606