

Product datasheet for **MG205449**

Tssk2 (NM_009436) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tssk2 (NM_009436) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tssk2
Synonyms:	DGS-G; SPOGA2; Stk22b; Tsk2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205449 representing NM_009436 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACGATGCGGCGTCTAAGGAAGAAGGGTTACATCGTGGGAATCAATCTGGCAAGGGCTCCTACG
CAAAAGTCAAATCTGCCTACTCAGAGCGCCTCAAGTTCAATGTGGCAGTCAAGATCATAGACCGCAAGAA
AACACCCACTGACTTTGTGGAGAGATTCCTTCTAGGGAGATGGACATCCTGGCGACCGTCAACCACCGT
TCCATCATTAAAGACCTACGAGATCTTTGAGACCTCTGATGGACGCATCTACATTGTCATGGAGCTGGGGC
TCCAGGGCGACCTCCTCGAGTTCATCAAGTGCCGAGGAGCCCTGCATGAGGATGTGGCACGCAAGATGTT
CGCCAGCTCTCCTCAGCCGTCAAGTACTGCCACGACCTGGATGTCGTCCACCGAGACCTCAAATGTGAG
AACCTTCTGCTTGACAAGGACTTCAACATCAAACCTGTCTGACTTCGGCTTCTCCAAGCGCTGCCTGCGGG
ACGGGAGTGGGCGCATCGTCTCAGCAAAACCTTCTGTGGGTGAGCAGCTTATGCAGCCCCGAGGTGCT
GCAGGGCATCCCCACCAGCCCAAGGTGTATGACATCTGGAGCCTGGGTGTGATTCTCTACATCATGGTC
TGTGGCTCCATGCCCTACGATGACTCTGACATCAAAAAGATGTGCGCATCCAGAAGGAGACCCGAGTGG
ACTTCCCACGCTCCAAGAACCTAACTGGTGAAGTGAAGGACCTCATCTACCGCATCTACAGCCAGATGT
CAACCGGGCGCTGCACATTGATGAGATCCTTAGCCACTCATGGCTACAGCCCCCAAGCCCAAGCCATG
TCTTCTGCCTCCTTCAAGAGGGAGGGGGAAGCAAGTATCGAGCTGATTGCAAGTTGGATACTCGACCC
GCTCCAGACCCGAACACCGGCTGACCACAAGCTGGCGACCAAAACCCAGCAACGGATGCTGGTGACACC
CGAGAATGAAGACAGGATGGAAGACAGGCTGGCTGAGACTTCCAGAGCTAAAGACCATCACATTTCTGGA
GCTGAGGTGGAGAAAGCAAGTACC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205449 representing NM_009436
 Red=Cloning site Green=Tags(s)

MDDAAVLRKKGIVGINLGKGSYAKVKSAYSERLKFNVAVKIIDRKKTPDFVERFLPREMDILATVNHR
 SIIKTYEIFETSDGRIYIVMELGVQGDLLLEFIKCRGALHEDVARKMFRQLSSAVKYCHDLDVVHRDLKCE
 NLLLDKDFNIKLSDFGFSKRCLRDGSGRIVLSKTF CGSAAAYAPEVLQGIPIYQPKVYDIWSLGVILYIMV
 CGSMPYDDSDIKKMLRIQKEHRVDFPRSKNLTGECKDLIYRILQPDVNRRLHIDEILSHSWLQPPKPKAM
 SSASFKREGEGKYRADCKLDRPGSRPEHRPDHKLATKPQQRMLVTPENEDRMEDRLAETSRAKDHHSIG
 AEVEKAST

TRTRPLE - GFP Tag - V

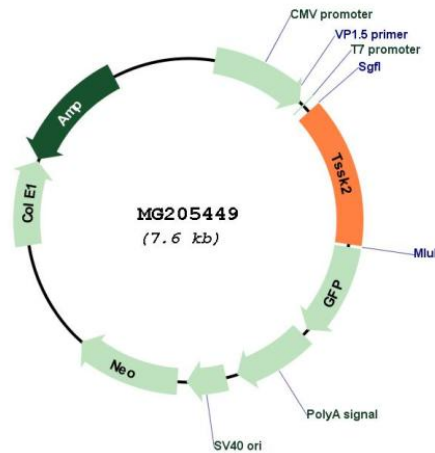
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_009436

ORF Size:	1074 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_009436.2 , NP_033462.2
RefSeq Size:	1403 bp
RefSeq ORF:	1077 bp
Locus ID:	22115
UniProt ID:	Q54863
Cytogenetics:	16 11.09 cM
Gene Summary:	Testis-specific serine/threonine-protein kinase required during spermatid development. Phosphorylates 'Ser-281' of TSKS and SPAG16. Involved in the late stages of spermatogenesis, during the reconstruction of the cytoplasm. During spermatogenesis, required for the transformation of a ring-shaped structure around the base of the flagellum originating from the chromatoid body.[UniProtKB/Swiss-Prot Function]