

Product datasheet for **RR206721**

Tesmin (NM_001012069) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tesmin (NM_001012069) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tesmin
Synonyms:	Mtl5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR206721 representing NM_001012069
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGACGCGCTGCTCGGCGCCATGACTGGCCCCAAGACGAGCTGGGCGCTGAGCTGTTCCGGTTCGG
 AGCGTGCCTTCGCGGACGGGCTGGCGCTGAGCCCCGCGGGGGTGCAGCCGATCGGGATGAGCTGCCGGT
 GCTGGCCGACGCCTACCTGGGCGCCACCGAGCCGGGGAGCCGCTGCTGCGTGCGCTCAGCCCCCGCCG
 GGCGCTGAGGTACCGGCCGCTTCTGGCGACTTCCCGGGGCTGCCGAGCTCCGAGCTCAGACGACG
 CCGCTCCGCTCCGCTACAGCGTGCAGTGTGCTGCTGTTACTTCCCGGTGCTCGCGGGCCCGCT
 GTTGCCGTAAGCGCCGAGTGCAGTATCCAGTAGAAATCAAAGAGGCAGGTGGCGGTGCCAGGC
 AGCAGCCCTGAAGATGCAGCTTCCAGGCCCTCTGGCTCAGGAATCCTGCTGCAAGTTCTCATCATCC
 AGGAGGCAGAGGAGCCCTCCGGTGCCTCGGAAAAAAGACTCCAGCCCCATGGTATTTGTCAGCTGAA
 AGGAGGTGCCAGATGCTCTGCATAGACAACACTGGTGCAGGGAGCTCAAAGCGCTCCATCTGCTCCT
 CAATATGATGACCAGAGCAGTCCACAAATCAGAGCTCCCTAAGCCAATGACAACCTTTAGTGGGAAGAC
 TTCTGCCAGTACCAGCAAAGTAAATCTCATCACACAGGTCGATAACGGAGCTCTCCCATCGGCTGTCAA
 TGGGGTCTTTTTCCCTCCGACCTGCTCTGCAAGGCCACCCAAAAATAGCTCTGGCTGGGTACTGTGAC
 TGCTTCTCCAGTGGGACTTCTGCAACAGCTGCAGCTGCAACAACCTGCGCCACGAGCTCGAGCGCTTCA
 AAGCCATTAAGGCGTGTCTTATAGAAATCCTGAGGCTTTCACCAAAAAATGGGAAAGGCCGGCTGGG
 AGCTGCTAAGCTTCGACACAGCAAAGGGTGCAACTGTAAGCGCTCAGGCTGCCTGAAGAACTACTGTGAG
 TGCTATGAGGCCAAAATCAGTGTCTTCCATTTGCAAATGCATTGCTTGCAAAAATATGAAGAAAGCC
 CAGAGCGAAAAATGCTGATGAGCAGCCCACTACATGGAGCTGGGGACTTTGAGAGCAGCCACCATCT
 GTCCCCAGCCAAAATTCTCAGGACCTCAAGACTGAGAAAAAATAGGCAAGCCTTCTCCTGTATCTCCTGG
 GAGGTAGTGGAGGCCACATGTGCCTGCCTGCTGGCCAGGGTGGAGGAGCAGAGCAGGAGCGCTGCTCTC
 CAAGCTTGGCTGAACAGATGGTCTGGAGGAGTTCGGAAGGTGCCTGTCGCAGATTCTCCACATCGAGTT
 CAAGTCCAAGGGGCTGAAAATTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR206721 representing NM_001012069
 Red=Cloning site Green=Tags(s)

MEDALLGAMTGPEDLGAELFGSERAFADGLALSPAGGAADRDEL PVLADAYLGATEPGEPLLRALSPPP
 GAEVPAALLGDFPGLPELRSSDDAAPPAYSVHVLSSLLPGARGPALLPLSAGVRVIPVEIKEAGGGVPG
 SSPEDAFAQPLAQESCKFSSSQEAEASGCPKDKSSPMVICQLKGGAAQMLCIDNCGARELKALHLLP
 QYDDQSSFPQSELPKPMTTLVGRLLPVPKLNLIITQVDNGALPSAVNGAAFPSGPALQGGPKIALAGYCD
 CFSSGDFCNSCSCNLRHELRFKAIKACLDRNPEAFQPKMGKGRLLGAAKLRHSGKCNCKRSGCLKNYCE
 CYEAKITCSSICKCIACKNYEESPERKMLMSTPHYMEPGDFESSHLLSPAKFSGPPRLRKNRQAFSCISW
 EVVEATACLLAQGEEAEQERCSPSLAEQMVLEEFGRCLSQLIHIEFKSKGLKIE

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_001012069

ORF Size: 1425 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_001012069.2](#), [NP_001012069.2](#)
RefSeq Size: 2071 bp

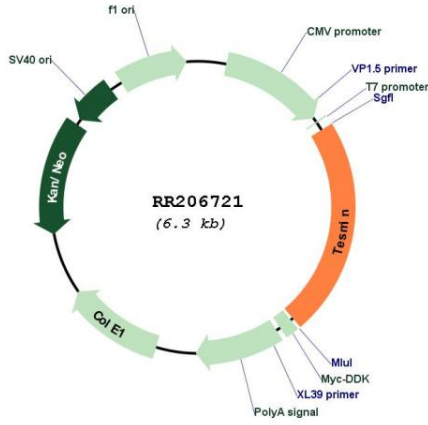
RefSeq ORF: 1428 bp

Locus ID: 309142

UniProt ID: [Q5XHX9](#)

Cytogenetics: 1q42
 MW: 50.5 kDa
 Gene Summary: May have a role in spermatogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR206721