

Product datasheet for **RC231140**

TSPY1 (NM_001197242) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TSPY1
Synonyms:	CT78; DYS14; pJA923; TSPY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC231140 representing NM_001197242
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCCCTGAGGGCTCGCTGACCTACCGGGTGCCAGAGAGGCTGCGGCAGGGTTTCTGTGGCGTGGGT
GGGCAGCACAGGCCTTGGTGTGTGCGAGTGCCAAGGAGGGCACCCTTCAGGATGGAGGCTGTGCAGGA
GGGGGCGGCCGGGTGGAGAGTGAGCAGGCGGCTTTGGGGGAGGAGCGGTGCTGCTGTTGGATGACATA
ATGGCGGAGGTGGAGGTGGTGGCGGAGGAGGAGGCGCTCGTGGAGCGCGGGAGGAGGCCAGCGGGCAC
AGCAGGCTGTGCCTGGCCCTGGGCCCATGACCCAGAGTCTGCACCGAGGAGCTGCTGGCCGTTCAAGT
GGAGCTGGAGCCGTTAATGCCAAGCCAGGAAGGCCTTTTCTCGGCAGCGGAAAAGATGGAGCGGAGG
CGCAAGCCCCACCTAGACCGCAGAGGCGCCGTCATCCAGAGCGTCCCTGGCTTCTGGCCAATGTTATTG
CAAACCAACCCAGATGTCAGCCCTGATCACTGACGAAGATGAAGACATGCTGAGCTACATGGTCAGCCT
GGAGGTGGGAGAAGAGAAGCATCCTGTTTCATCTCTGCAAGATCATGTTGTTCTTTCGGAGTAACCCCTAC
TTCCAGAATAAAGTGATTACCAAGGAATATCTGGTGAACATCACAGAATACAGGGCTTCTCATTCCACTC
CAATTGAGTGGTATCCGGATTATGAAGTGGAGGCCTATCGCCGAGACACCACAACAGCAGCCTTAATT
CTTCAACTGGTCTCTGACCACAATTGCGAGGATCTAACAAGATTGCTGAGTCCCCTGACAGATCCTAT
GTAAGGACCTGTGGCGCAATCCCCTGCAATACTACAAGAGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RC231140 representing NM_001197242
Red=Cloning site Green=Tags(s)

MRPEGLSTYRVPERLRQGF CGVGRAAQALVCSAKEGTAFRMEAVQEAGAAGVESEQAALGEEAVLLLLDDI
MAEVEVVAEEGLVERREEAQRQAQVAVPGPGMPTESAPEELLAVQVELEPVNAQAKAFSRQREKMERR
RKPHLDRRGAVITQSPVGFWANVTIANHPQMSALITDEDEMLSYMVSLVEEGEHPVHLCKTMLFFRSNPY
QNKVITKEYLVNITETRAHSTPIEWYPDYEVEAYRRRHNNSSLNFFNWFSDHNFAGSNKIAESPDRSY
VRCGAIACPNITRG

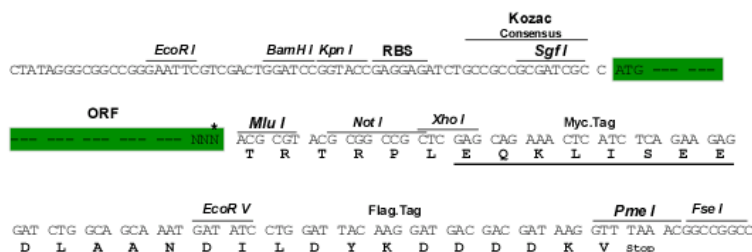
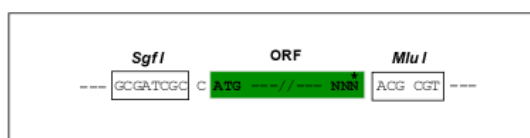
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8050_b05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001197242

ORF Size: 882 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001197242.2](#)

RefSeq ORF: 885 bp

Locus ID: 7258

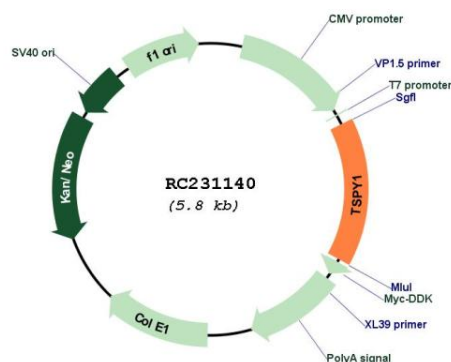
UniProt ID: [Q01534](#)

Cytogenetics: Yp11.2

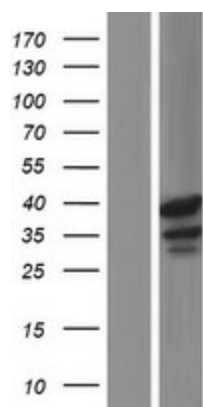
MW: 33.6 kDa

Gene Summary: The protein encoded by this gene is found only in testicular tissue and may be involved in spermatogenesis. Many functional paralogs and pseudogenes of this gene are present in a cluster in humans, but only a single, nonfunctional orthologous gene is found in mouse. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RC231140



Western blot validation of overexpression lysate (Cat# [LY434139]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC231140 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).