

Product datasheet for **RC208456**

TSPYL1 (NM_003309) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	TSPYL1
Synonyms:	TSPYL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208456 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGAGCGGCTGGATGGGGTCAAGAGGACCACTCCCCTCCAAACCCACAGCATCATTATTCTGACCAAG
TCCCGAGCGACAGGACGCACACCAAGTACCTGAGGCTCCGCGACCAAGCGAGGCGACACAGGTGATGGC
GGAGCCGGGTGAGGGAGGCTCGGAGACCGTCGCGCTCCCGCTCCACCGCCTTCAGAGGAGGGGGCGTA
CCCCAGGATGCCCGGGCCGTGGCGTACTCCCGAGATCCGAGTTGTTGGGGTTCGCGGTATGTGGCGA
TCAAAGCCGGGAGGAAGAGGGCCAGCTCCCGCCGAAGGCCCTGGCAGCCGCTTCTGTGGTATGGCAGC
CGACCCGAGCCTGAAAAAGGGCGTTTCAAGGTGGAGAGAAGGCCCTAGAAATCTGTGGCGCCAGAGATCC
GCGTCTGAGCTGACGGCGGGGGCGGAGGCTGAGGCGGAGGAGGTGAAGACAGGAAAGTGCGCCACCGTCT
CAGCAGCCGTGGCTGAGAGGGAGAGCGCTGAGGTGGTGGTGAAGGAAGGCCTGGCGGAGAAGGAGTAAT
GGAGGAGCAGATGGAGGTAGAGGAGCAGCCGCAAGGTGAAGAAATAGAAGTGGCGGAGGAGGATAGA
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GTTTGGGCGGATGCGTCGACACTACCTGGAGCGGAGGAACATCATTCAGAATATCCCGGCTTCTGG
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ACATAACCAATTTAGAGGTGAAGGAACAGACACCTAGAACCGGTTGCAAGTTCAAGTTCTTCTTTAG
AAGAAACCCCTACTTCAGAAACAAGCTGATTGTCAAGGAATATGAGGTAAGATCCTCCGGCCGAGTGGTG
TCTCTTTCTACTCCAATTATATGGCGCAGGGGGCATGAACCCCACTCTTCATTGCGAGAAACCAAGACC
TCATCTGCAGCTTCTTCACTTGGTTTTTCAAGCACAGCCTTCCAGAGTCCGACAAAATTGCTGAGATTAT
TAAAGAGGATCTGTGGCCAAATCCACTGCAATACTACCTGTTGCGTGAAGGAGTCCGTAGAGCCCGACGT
CGCCCGCTAAGGGAGCCTGTAGAGATCCCCAGGCCCTTTGGGTTCCAGTCTGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208456 protein sequence
 Red=Cloning site Green=Tags(s)

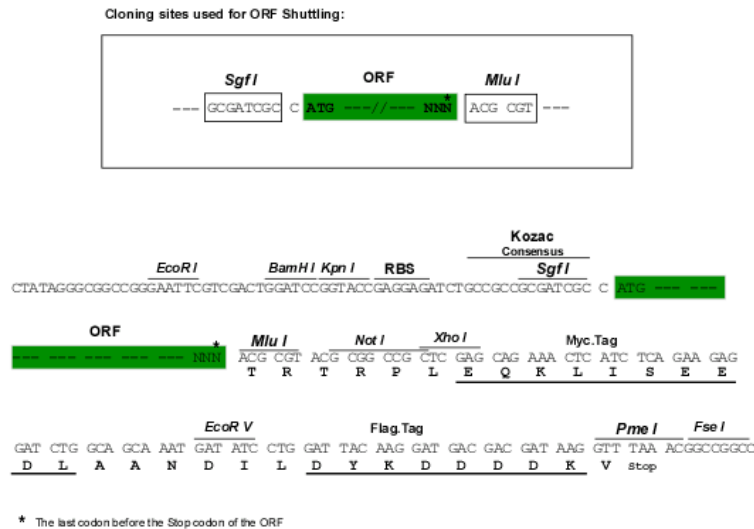
MSGLDGVKRTTPLQTHSIIISDQVPSDQDAHQYLRLRDQSEATQVMAEPGEGGSETVALPPPPSEEGV
 PQDAAGRGGTPQIRVVGGRGHVAIKAGQEEGQPPAEGLAAASVMAADRSLKKGVGGEKALEICGAQRS
 ASELTAGAEAEAEVKTGKCATVSAVAERESAEEVVVKEGLAEKEVMEEQMEVEEQPPEGEEIEVAEEDR
 LEEEAEEEEGPWPLHEALRMDPLEAIQLELDTVNAQADRAFQQLHKKFGRMRHYLERNNYIIQNIPGFW
 MTAFRNHQQLSAMIRGQDAEMLRYITNLEVKELRHPRTGCKFKFFRRNPYFRNKLIVKEYEVRSSGRV
 SLSTPIIWRRGHEPQSFIRRNQDLICSFFTWFSHSLPESDKIAEIIKEDLWPNPLQYYLLREGVRRARR
 RPLREPVEIPRPFQSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6346_d09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003309

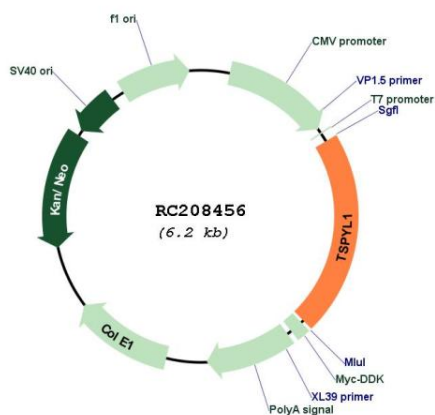
ORF Size: 1314 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

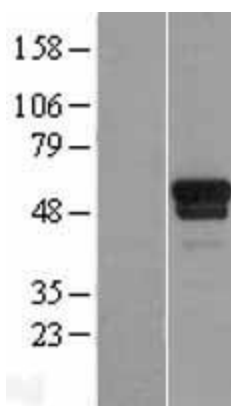
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_003309.4</u>
RefSeq Size:	5259 bp
RefSeq ORF:	1314 bp
Locus ID:	7259
UniProt ID:	<u>Q9H0U9</u>
Cytogenetics:	6q22.1
MW:	49.3 kDa
Gene Summary:	The protein encoded by this gene is found in the nucleolus and is similar to that of a family of genes on the Y-chromosome. This gene is intronless. Defects in this gene are a cause of sudden infant death with dysgenesis of the testes syndrome (SIDDT). [provided by RefSeq, Dec 2009]

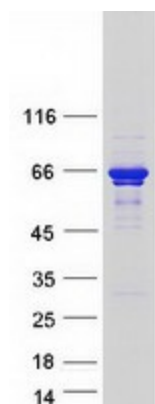
Product images:



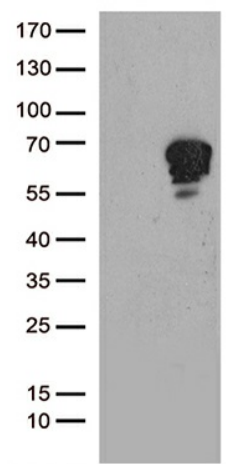
Circular map for RC208456



Western blot validation of overexpression lysate (Cat# [LY418771]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208456 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TSPYL1 protein (Cat# [TP308456]). The protein was produced from HEK293T cells transfected with TSPYL1 cDNA clone (Cat# RC208456) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY TSPYL1 (Cat# RC208456, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-TSPYL1 (Cat# [TA811400]). Positive lysates [LY418771] (100ug) and [LC418771] (20ug) can be purchased separately from OriGene.