

## Product datasheet for **RC202014**

### **TSPAN6 (NM\_003270) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TSPAN6 (NM_003270) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TSPAN6
Synonyms:	T245; TM4SF6; TSPAN-6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202014 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGTCCCCGTCTCGGAGACTGCAGACTAAACCAGTCATTACTTGTTCAGAGCGTTCTGCTAATCT  
ACACTTTTATTTCTGGATCACTGGCGTTATCCTTCTTGCACTTGGCATTGGGGCAAGGTGAGCCTGGA  
GAATTACTTTCTCTTTAAATGAGAAGGCCACCAATGTCCCTTCGTGCTCATTGCTACTGGTACCGTC  
ATTATTCTTTGGGCACCTTTGGTTGTTTGTCTACCTGCCGAGCTTCTGCATGGATGCTAAACTGTATG  
CAATGTTTCTGACTCTCGTTTTTTGGTCGAAGTGGTCGCTGCCATCGTAGGATTTGTTTCAGACATGA  
GATTAAGAACAGCTTTAAGAATAATTATGAAAAGGCTTTGAAGCAGTATAACTCTACAGGAGATTATAGA  
AGCCATGCAGTAGACAAGATCCAAAATACGTTGCATTGTTGTGGTGTACCGATTATAGAGATTGGACAG  
ATACTAATTATTACTCAGAAAAAGGATTTCTTAAGAGTTGCTGTAACTTGAAGATTGTAAGTCCACAGAG  
AGATGCAGACAAAGTAAACAATGAAGTTGTTTATAAAGGTGATGACCATTATAGAGTCAGAAATGGGA  
GTCGTTGCAGGAATTTCTTTGGAGTTGCTTCCAAGTATTGGAATCTTTCTCGCTACTGCCTCT  
CTCGTGCCATAACAAATAACCAGTATGAGATAGT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC202014 protein sequence  
 Red=Cloning site Green=Tags(s)

MASPSRRLQTKPVITCFKSVLLIYTFIFWITGVILLAVGIWGVSLNYSLLNEKATNPVFLIATGTV  
 IILLGTGFCFATCRASAWMLKLYAMFLTLVFLVELVAAIVGVFRHEIKNSFKNNYEKALKQYNSTGDYR  
 SHAVDKIQNTLHCCGVTDYRDWTDNYYSEKGFPSCKLEDCTPQRDADKVNNEGCFIKVMTIIESEMG  
 VVAGISFGVACFQLIGIFLAYCLSRAITNNQYEIV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6011\\_b04.zip](https://cdn.origene.com/chromatograms/mk6011_b04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_003270

**ORF Size:** 735 bp

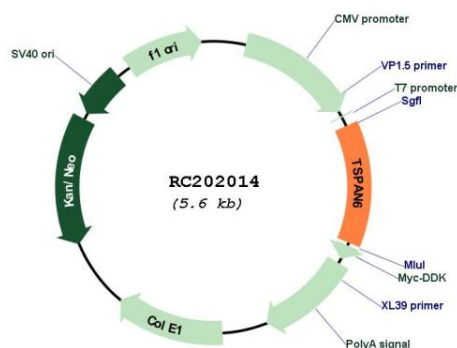
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

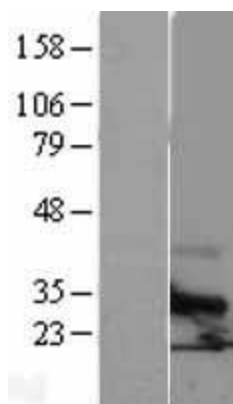
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_003270.4</a></u>
<b>RefSeq Size:</b>	3833 bp
<b>RefSeq ORF:</b>	738 bp
<b>Locus ID:</b>	7105
<b>UniProt ID:</b>	<u><a href="#">O43657</a></u>
<b>Cytogenetics:</b>	Xq22.1
<b>Domains:</b>	transmembrane4
<b>Protein Families:</b>	Transmembrane
<b>MW:</b>	27.6 kDa
<b>Gene Summary:</b>	<p>The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. Most of these members are cell-surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. The protein encoded by this gene is a cell surface glycoprotein and is highly similar in sequence to the transmembrane 4 superfamily member 2 protein. It functions as a negative regulator of retinoic acid-inducible gene I-like receptor-mediated immune signaling via its interaction with the mitochondrial antiviral signaling-centered signalosome. This gene uses alternative polyadenylation sites, and multiple transcript variants result from alternative splicing. [provided by RefSeq, Jul 2013]</p>

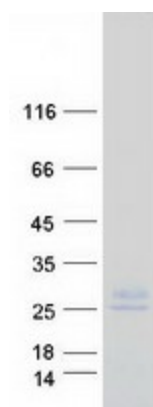
## Product images:



Circular map for RC202014



Western blot validation of overexpression lysate (Cat# [LY401128]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202014 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TSPAN6 protein (Cat# [TP302014]). The protein was produced from HEK293T cells transfected with TSPAN6 cDNA clone (Cat# RC202014) using MegaTran 2.0 (Cat# [TT210002]).