

Product datasheet for RC202123

TSPAN5 (NM_005723) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TSPAN5 (NM_005723) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	TSPAN5
Synonyms:	NET-4; NET4; TM4SF9; TSPAN-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202123 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCGGGAAGCACTACAAGGGTCTGAAGTCAGTTGTTGCATCAAATACTTCATATTTGGCTTCAATG
TCATATTTGGTTTTGGGAATAACATTTCTTGAATTGGACTGTGGCATGGAATGAAAAGGAGTTCT
GTCCAACATCTTCCATCACCGATCTCGGCGGCTTTGACCCAGTTGGCTTTCCTTGTGGTGGGAGGA
GTGATGTTCAATTTGGGATTTGCAGGGTGCATTGGAGCGCTACGGGAAAACACTTTCCTTCTCAAGTTTT
TTTCTGTGTTCTGGGAATTATTTCTTCTGGAGCTCACTGCCGGAGTTCTAGCATTTGTTTTCAAAGA
CTGGATCAAAGACCAGCTGTATTTCTTTATAAACAAACATCAGAGCATATCGGGATGACATTGATTTG
CAAACCTCATAGACTTCACCCAGGAATATTGGCAGTGCTGTGGGGCTTTTGGAGCTGATGATTGGAACC
TAAATATTTACTTCAATTGCACAGATTCCAATGCAAGTCGAGAGCGATGTGGCGTTCCATTCTCCTGCTG
CACTAAAGATCCCGCAGAAGATGTCATCAACACTCAGTGTGGCTATGATGCCAGGCAAAAACCAGAAGTT
GACCAGCAGATTGTAATCTACACGAAAGGCTGTGTGCCCCAGTTTGAGAAGTGTTGCAGGACAATTTAA
CCATCGTTGCTGGTATTTTCATAGGCATTGCATTGCTGCAGATATTTGGGATATGCTGGCCAGAATTT
GGTTAGCGATATCGAAGCTGTCAGGGCGAGCTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202123 protein sequence
 Red=Cloning site Green=Tags(s)

MSGKH YKGPEVSCCIKYIFGFNVIFWFLGITFLGIGLWAWNEKGVLSNISSITDLGGFDPVWFLVVG
 VMFILGFAGCIGALRENTFLLKFFSVFLGIFFLELTAGVLA FVKDWIKDQLYFFINNNIRAYRDDIDL
 QNLIDFTQEYWQCCGAFGADDWNLNIYFNCTDSNASRERCVPFSCCTKDP AEDVINTQCGYDARQKPEV
 DQQIVIYTKGCVPOFEKWLQDNL TIVAGIFIGIALLQIFGICLAQNLVSDIEAVRASW

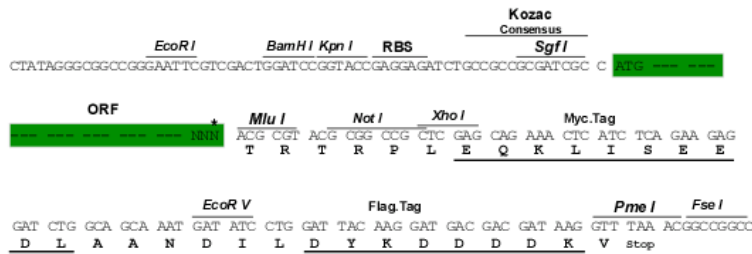
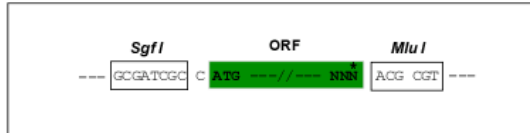
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6308_f08.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_005723

ORF Size: 804 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_005723.4](#)

RefSeq Size: 3406 bp

RefSeq ORF: 807 bp

Locus ID: 10098

UniProt ID: [P62079](#)

Cytogenetics: 4q23

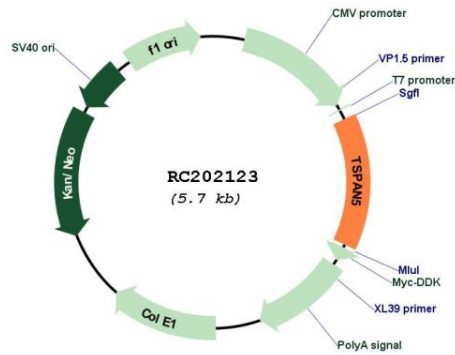
Domains: transmembrane4

Protein Families: Transmembrane

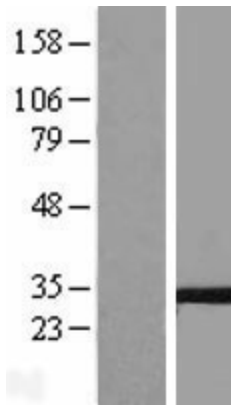
MW: 30.3 kDa

Gene Summary: 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. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202123



Western blot validation of overexpression lysate (Cat# [LY417104]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202123 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).