

Product datasheet for **RR213046**

Tspan5 (NM_001004090) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tspan5 (NM_001004090) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Tspan5
Synonyms: Tm4sf9; Tspan-5
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RR213046 representing NM_001004090
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCGGGAAGCACTACAAGGGTCTGAAGTCAGTTGTTGCATCAAATACTTCATTTTTGGCTTCAATG
TCATATTTGGTTTTGGGAATAACGTTTCTTGAATTGGACTGTGGCGTGGAATGAAAAGGTGTCTC
GTCCAATATCTCGTCCATCACCGACCTCGGTGGCTTTGACCCAGTCTGGCTTTTCTCGTGGTGGGAGGA
GTGATGTTCACTTGGGTTTGCAGGGTGCATCGGAGCACTGCGGAAAACACCTTCCTTCTCAAGTTTT
TTTCTGTGTTCTGGGAATTATTTCTTCTGGAACACTGCTGGGGTGTGGCATTGTTTTCAAAGA
CTGGATCAAAGACCAGCTGTATTTCTTTATTAACAACAACATCAGAGCCTACAGAGATGACATTGATCTG
CAGAACCCTCATAGACTTCACCCAGGAATACTGGCAGTGCTGCGGGCTTTTGGAGCTGACGATTGGAACC
TAAATATTTACTTCAACTGCACAGACTCCAATGCAAGCCGAGAGCGATGTGGTGTGCCATTCTCCTGCTG
CACTAAAGACCCCGGAAGACGTATCAACACTCAGTGTGGCTATGATGCCAGGCAAAAACCAGAAGTT
GACCAACAGATTGTGATCTACACAAAAGGCTGTGTGCCAGTTTGAAGTGGCTACAGGACAATTTAA
CCATTGTGGCTGGTATTTTCATAGGAATTGCACTGCTTCAGATTTTTGGGATATGCTGGCACAGAATTT
GGTGAGTGACATTGAAGCTGTCAAGGCTAGCTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR213046 representing NM_001004090
 Red=Cloning site Green=Tags(s)

MSGKHYKGPEVSCCIKYFIFGFNVIFWFLGITFLGIGLWAWNEKGLVSNISSITDLGGFDPVWFLVVG
 VMFILGFAGCIGALRENTFLLKFFSVFLGIFFLELTAGVLAFFVKDWIKDQLYFFINNNIRAYRDDIDL
 QNLIDFTQEYWQCCGAFGADDWNLNIYFNCTDSNASRERCVPFSCCTKDPaedVINTQCGYDARQKPEV
 DQQIVIYTKGCVPOFEKWLQDNL TIVAGIFIGIALLQIFGICLAQNLVSDIEAVRASW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001004090

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.

RefSeq: [NM_001004090.2](#), [NP_001004090.2](#)

RefSeq Size: 2877 bp

RefSeq ORF: 807 bp

Locus ID: 362048

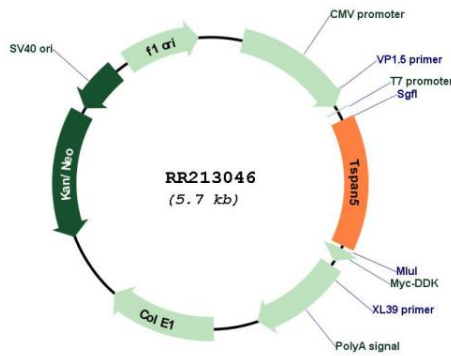
UniProt ID: [Q68VK5](#)

Cytogenetics: 2q44

MW: 30.3 kDa

Gene Summary: Regulates ADAM10 maturation and trafficking to the cell surface. Promotes ADAM10-mediated cleavage of CD44.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR213046