

Product datasheet for **MR203586**

Tspan14 (NM_145928) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tspan14 (NM_145928) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tspan14
Synonyms:	AA958793; D14Ertd226e; Tm4sf14; tspan-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203586 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCACTATTATAGATACTCGAACGCCGAGGTCAGCTGCTGGTACAAGTACCTGCTCTTCAGCTACAATA
 TCGTCTTTTGGCTGGCTGGAGTTGTCTTCCTTGGAGTCGGGCTGTGGGCATGGAGCGAAAAGGTGTGCT
 GTCCGACCTACCAAGGTGACCCGGTTGCATGGAATCGACCCCGTCGTGCTGGTCTTGATGGTGGGCGTG
 GTGATGTTCACTGGGATTCGAGGCTGTGTCGGGGCCCTCCGAGAGAACATCTGCCTGCTCAAGTTTT
 TCTGTGGGGCCATTGTGCTCATCTTCTCCTGGAAGTGGCCGTGGCCGTGTTGGCCTTTTATTCCAAGA
 CTGGGTGAGAGACCGTTCCGGGAATTCCTCGAGAGCAACATCAAGTCCTATCGGGATGACATCGACCTG
 CAGAACCTCATTGACTCCCTTCAGAAAGCTAATCAGTGCTGCGGGGCTTACGGCCCTGAAGACTGGGACC
 TCAATGTCTACTTCAACTGCAGTGGTGCCAGCTACAGCCGAGAGAAATGTGGGGTACCCTTCTCCTGCTG
 TGTGCCAGATCCTGCACAAAAAGTCGTGAACACACAGTGTGGCTATGATGTCCGGATTACAGTGAAGAGC
 AAGTGGGATGAGTTCATCTTTACAAAAGGATGCATCCAGGCTCTGGAAGGCTGGCTGCCAGGAACATCT
 ACATTGTGGCTGGTGTCTTCATTGCCATCTCACTGCTGCAGATTTTGGCATCTTCTGGCGAGGACCTT
 GATCTCAGACATCGAGGCAGTGAAGGCAGGCCATCACTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >MR203586 protein sequence
 Red=Cloning site Green=Tags(s)

MHYRYSNAEVSCWYKYLFSYNIVFWLAGVFLGVGLWAWSEKGLSDLTKVTRLHGIDPVVLVLMVGVMFTLGFAGCVGALRENICLLKFFCGAIVLIFFLELAVAVLAFLFQDWVRDRFREFFESNIKSYRDDIDLQNLIDSLQKANQCCGAYGPEDWDLNVYFNCSGASYSREKCGVPPSCCVPDPAQKVNTQCGYDVRIQLKSKWDEFIFTKGCIALEGWLPRIYIVAGVFIAISLLQIFGIFLARTLISDIEAVKAGHHF

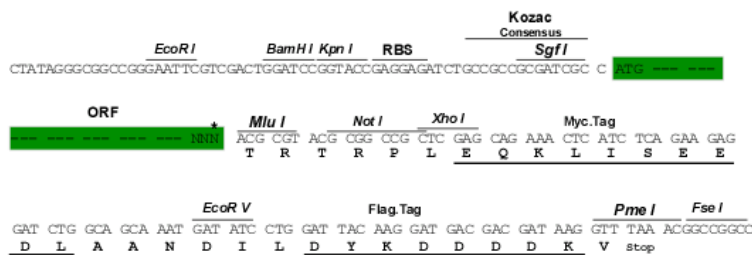
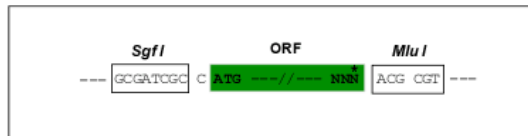
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_145928

ORF Size: 810 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_145928.2](#)

RefSeq Size: 2500 bp

RefSeq ORF: 813 bp

Locus ID: 52588

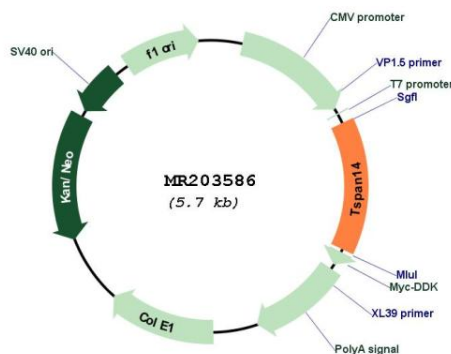
UniProt ID: [Q8QZY6](#)

Cytogenetics: 14 22.36 cM

MW: 30.7 kDa

Gene Summary: Regulates maturation and trafficking of the transmembrane metalloprotease ADAM10 (PubMed:26668317, PubMed:23035126). Negatively regulates ADAM10-mediated cleavage of GP6 (PubMed:26668317). Promotes ADAM10-mediated cleavage of CDH5 (PubMed:23035126).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203586