

Product datasheet for **MG203586**

Tspan14 (NM_145928) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tspan14 (NM_145928) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tspan14
Synonyms:	AA958793; D14Ertd226e; Tm4sf14; tspan-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG203586 representing NM_145928 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCACTATTATAGATACTCGAACGCCGAGGTCAGCTGCTGGTACAAGTACCTGCTCTTCAGCTACAATA
TCGTCTTTTGGCTGGCTGGAGTTGTCTTCCTTGGAGTCGGGCTGTGGGCATGGAGCGAAAAGGTGTGCT
GTCCGACCTACCAAGGTGACCCGGTTGCATGGAATCGACCCGTCGTGCTGGTCTTGATGGTGGGCGTG
GTGATGTTCACTGGGATTCGAGGCTGTGTCGGGGCCCTCCGAGAGAACATCTGCCTGCTCAAGTTTT
TCTGTGGGGCCATTGTGCTCATCTTCTTCCTGGAAGTGGCCGTGGCCGTGTTGGCCTTTTATTCCAAGA
CTGGGTGAGAGACCGTTCCGGGAATTCCTCGAGAGCAACATCAAGTCCTATCGGGATGACATCGACCTG
CAGAACCTCATTGACTCCCTTCAGAAAGCTAATCAGTGCTGCGGGGCTTACGGCCCTGAAGACTGGGACC
TCAATGTCTACTTCAACTGCAGTGGTGCCAGCTACAGCCGAGAGAAATGTGGGGTACCCTTCTCCTGCTG
TGTGCCAGATCCTGCACAAAAAGTCGTGAACACACAGTGTGGCTATGATGTCCGGATTGAGTGAAGAGC
AAGTGGGATGAGTTCATCTTTACAAAAGGATGCATCCAGGCTCTGGAAGGCTGGCTGCCAGGAACATCT
ACATTGGGCTGGTGTCTTCATTGCCATCTCACTGCTGCAGATTTTGGCATCTTCTGGCGAGGACCTT
GATCTCAGACATCGAGGCAGTGAAGGCAGGCCATCACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203586 representing NM_145928
Red=Cloning site Green=Tags(s)

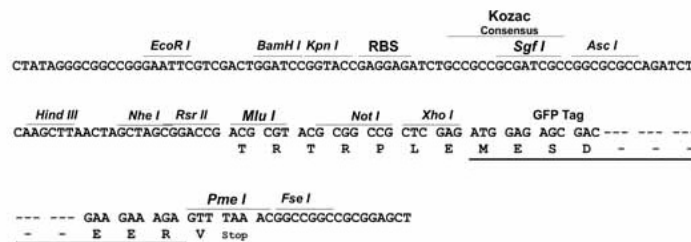
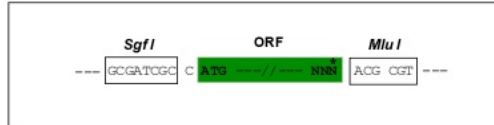
MHYRYSNAEVSCWYKYLFSYNIVFWLAGVVFLGVGLWAWSEKVLSDLTKVTRLHGIDPVVLVLMVG
VMFTLGFAGCVGALRENICLLKFFCGAIVLIFFLELAVAVLAFLFQDWVRDRFREFFESNIKSYYRDDIDL
QNLIDSLQKANQCCGAYGPEDWDLNVYFNCSGASYSREKCGVPFSCCVDPAPQKVNTQCGYDVRIQLKS
KWDEFIFTKGCIALEGWLPRIYIVAGVFIAISLLQIFGIFLARTLISDIEAVKAGHHF

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

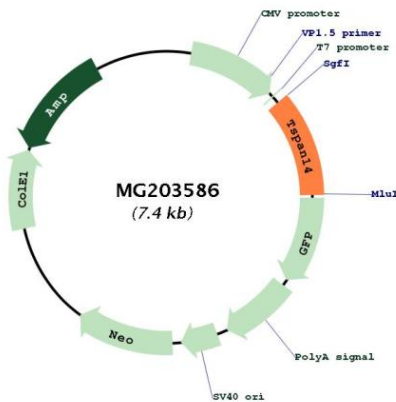
Locus ID: 52588

UniProt ID: [Q8QZY6](#)

Cytogenetics: 14 22.36 cM

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 MG203586