

## Product datasheet for **MR204278**

### Tspan12 (NM\_173007) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Tspan12 (NM\_173007) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Tspan12  
**Synonyms:** 9030619E17; AI426782; AI663988; AW111457; Tm4sf12  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR204278 ORF sequence  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCAGAGAAGATTCCGTGAAGTGTGGCGCTGCTTACGCCCTCAACCTGCTCTTTGGTTAA  
TGTCCATCAGTGTCTGGCAGTTTCTGCTGGATGAGGGACTACCTGAATAATGTTTTGACTTTAACTGC  
AGAAACAAGGGTAGAAGAAGCGGTCATCTTAACCTACTTCCCGTGGTTCACCCCGTCATGATTGCTGTC  
TGCTGCTTCTTATCATCGTGGGAATGCTGGGATACTGTGGAACGGTGAAAAGAAATCTGTTGCTTCTTG  
CATGGTACTTCGGAACGTTACTCGTCATCTTCTGTGTAGAACTGGCTTGCCTGTGTGGACATACGAGCA  
GGAGGTTATGGTGCCAGTACAGTGGTCAGATATGGTACTTTGAAAGCCAGAATGACAAATTACGGCTTA  
CCGAGGTATAGATGGCTTACACACGCTTGGAAATATTTTCAGAGAGAGTTAAGTGTGTGGAGTGGTGT  
ACTTCACTGACTGGTTGGAAATGACAGAAATGGACTGGCCTCCCGACTCCTGCTGTGTGAGGAGTTCCC  
AGGGTGTCCAAGCAGGCTCACCAGGAAGATCTCAGTGACCTTTACCAAGAGGGTGTGGGAAGAAGATG  
TATTCCTTTTGGAGGAACCAACAATTGCAAGTTCTAAGGTTTCTGGGAATCTCCATTGGTGTGACAC  
AAATCTGGCCATGATTCTCACCATTACTCTGCTCTGGGCTCTGTATTATGATAGAAGGGAGCCTGGAAC  
AGACCAAAATGCTATCTGAAAAATGATACGCTCTCAGCACTTGTGCATGTCATTCTGTGGAAGTGTAAAA  
CCAAGTCTTTCAAGGATCTTTGAGCATAACATCAATGGCAAACAGCTTCAATACACATTTTGAGATGGAAG  
AATTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**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\\_173007.4](#)

**RefSeq Size:** 2490 bp

**RefSeq ORF:** 918 bp

**Locus ID:** 269831

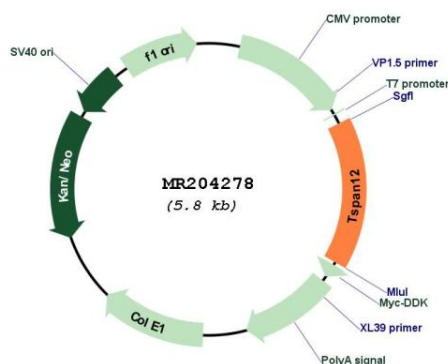
**UniProt ID:** [Q8BKT6](#)

**Cytogenetics:** 6 A3.1

**MW:** 35.4 kDa

**Gene Summary:** Regulator of cell surface receptor signal transduction. Acts as a regulator of membrane proteinases such as ADAM10 and MMP14/MT1-MMP. Activates ADAM10-dependent cleavage activity of amyloid precursor protein (APP). Activates MMP14/MT1-MMP-dependent cleavage activity (By similarity). Plays a central role in retinal vascularization by regulating norrin (NDP) signal transduction. Acts in concert with norrin (NDP) to promote FZD4 multimerization and subsequent activation of FZD4, leading to promote accumulation of beta-catenin (CTNNB1) and stimulate LEF/TCF-mediated transcriptional programs. Surprisingly, it only activate the norrin (NDP)-dependent activation of FZD4, while it does not activate the Wnt-dependent activation of FZD4, suggesting the existence of a Wnt-independent signaling that also promote accumulation the beta-catenin (CTNNB1).[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR204278