

Product datasheet for **MC206421**

Tspan12 (BC068240) Mouse Untagged Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Tspan12 (BC068240) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Tspan12 |
| Synonyms: | 9030619E17; AI426782; AI663988; AW111457; Tm4sf12 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | PCMV6-Kan/Neo (PCMV6KN) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



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Fully Sequenced ORF: >BC068240
 GGAAGACAAGGAAGCGTCTGCTGCTGGCGCCGATGCATCCCTTTGGCTCTCCGGGAGGAGCGTCCCTGCC
 CCGATGAGTGTCTGCTGTGTGTCCCGACTGTTCCCGGCAGGAGCGCAGCTCGAACGATCGCCGGGGCT
 CTGCCTGGACCAGTAGAATGTGGTGAGAGGATGGGGTTTCTCCCTCCAAGACTCACAATGGCCAGAGAA
 GATTCGGTGAAGTGTTCGCGTCTTGTCTACGCCCTCAACCTGCTCTTTGGTTAATGTCATCAGTG
 TCTTGGCAGTTTCTGCTTGGATGAGGGACTACCTGAATAATGTTTTGACTTTAACTGCAGAAACAAGGT
 AGAAGAAGCGGTATCTTAACTTACTTCCCGTGGTTCACCCCGTCATGATTGCTGTCTGCTGCTTCCCT
 ATCATCGTGGGAATGCTGGGATACTGTGGAACGGTGAAAAGAAATCTGTTGCTTCTGCATGGTACTTCG
 GAACGTTACTCGTCATCTTCTGTGTAGAACTGGCTTGGCGTGTGTGGACATACGAGCAGGAGTTATGGT
 GCCAGTACAGTGGTCAGATATGGTTACTTTGAAAGCCAGAATGACAAATTACGGCTTACCAGGTATAGA
 TGGCTTACACACGCTTGGAAATTTTTAGAGAGAGTTTAAAGTGTGTGGAGTGGTGTACTTCACTGACT
 GGTGGAAATGACAGAAATGGACTGGCCTCCCGACTCCTGCTGTGTGAGGGAGTCCAGGGTGTCCAA
 GCAGGCTACCAGGAAGATCTCAGTGACCTTTACCAAGAGGGTTGTGGGAAGAAGATGTATTCTTTTTG
 AGAGGAACCAACAATTGCAAGTCTAAGGTTTCTGGGAATCTCCATTGGTGTGACACAAATCTGGCCA
 TGATTCTACCATTACTCTGCTCTGGGCTGTATTATGATAGAAGGGAGCCTGGAACAGACCAAAATGCT
 ATCTCTGAAAAATGATAGTCTCAGCACTTGTCAATGTCATTCTGTGGAACGTTAAAACCAAGTCTTTCA
 AGGATCTTTGAGCATACATCAATGGCAAACAGCTTCAATACACATTTTGAGATGGAGAATTATGAAGAA
 TGTCAAAGAAGGAAATCACAACCTTGTGGGACTAGTGGGTTTTGGGTACACAGTTATCTATTTAGAAA
 TTTTAGACATATTAATATTCTGAAAAGGAATGTCTAAGAATTTCTACTCTTTAAAACAAGGTTCCA
 CATGGTAATACACAGACAATAATGGTGGCCTTCAAAATGCCGAACCCAGACATTATAACAACCTGTGTGT
 GCTTTCTTTCTTTCTTTTTCTGAGCACAATTATGTTTTGCAGTGATACAGTTTGACCAGCGTTTCT
 GCATCCATTACAGAAATGAACCGTCATGGTGGCACTGGAGCTGATATGAAGGTTAACTGACTCCTCTAA
 CTAACCTATAAACTATCCACTGACTGCTAACATAGGGATTTAGTGCTAAAGACCTTTATTAGCTGGTGAT
 GTATTGTTCTGATGAGGATTTGATTATATGCAAAAATCTTTCAAGATTGGTGACTACCTAAATATGATT
 TTTGTTGGTTACTAAAATAATCTTATTAATAACTTGTAAAGAGCTAACATGTTGTCTTAAACTTATCAG
 GGATATATATGTATAAAGTCTGTGCCGTGTGTATAATTAGTAGATTTAGTTTCTATAATATTATG
 AAAACAATATTTGAAAATGGCGAAAATGTCTTACACAGCACCATTACTTTGTCTCTTTCAGCAACAG
 AACTTTTAAATCCGTCTTGGTTCTGTACTATATCTATAACTGTTAATTTAAGTTGTTAACCCTAATTT
 TGGAAATTACCAGTTTGACACATAGGAATCTCTGTAAGTCTGCCTGCAGGAAGTATTAACCTCAGAATTT
 GCACATAGTTGATTCATCAAAAGTTCAGATTTTTCCCGCTCCCAATAAACCTTTGTCAAAGAGTGT
 TCATTTTTATTTAATGTTTTCATGTATTTTTTGCAATCAAGAATCAACAACCTGAAGTTGATGTAAT
 TTTCCAGAGAAACAACATTCTCTGAAGAGATGCTCATAGGAATCTCTAAAATAAGTGGTAGCCTAACCG
 AGAGAATTCTTGATTTCTTTCATCAATTAATACTGTAGCAAATGATACAGAATTAATTTTTTACAA
 GAGTAGAAGATATTTATTTGAAACGGGAAAAGTGCATTTTACTGTATCTTGTGCATTCTGTTCAATTTCT
 GGATTACAGAAAGAAAATTAATCAATAAATATTTTCTAGATCGTGAIAAAAAAAAAAAAAAAAAAAAAA AAAAAAA

Restriction Sites: RsrII-NotI

ACCN: BC068240

Insert Size: 918 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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: [BC068240](#), [AAH68240](#)

RefSeq Size: 2388 bp

RefSeq ORF: 918 bp

Locus ID: 269831

Cytogenetics: 6 A3.1

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]