

Product datasheet for **RN200766**

Tspan12 (NM_001015026) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Tspan12 (NM_001015026) Rat Untagged Clone
Tag: Tag Free
Symbol: Tspan12
Synonyms: Tm4sf12
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN200766 representing NM_001015026
Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAGAAGATTCCGTGAAGTGTTTGCCTGCTTGTCTACGCCCTCAACCTGCTCTTCTGGTTAA
TGTCATCAGTGTCTTGGCAGTTTCTGCTTGGATGAGGGACTACCTGAATAACGTTTTGACTTTGACTGC
AGAGACAAGGGTAGAAGAGGCGGTCATCTTAACCTACTTCCCTGTGGTTCACCCCGTCATGATTGCTGTC
TGCTGTTTCCTTATCATCGTGGGAATGCTGGGATACTGTGGGACCGTGAAAAGGAATCTGTTGCTTCTTG
CATGGTACTTTGGAACCTTACTCGTGATCTTCTGCGTAGAACTGGCTTGTGGTGTGTGGACATACGAGCA
GGAAGTTATGGTGCCAGTACAGTGGTCAGATATGGTTACTTTGAAAGCCAGAATGACAAATTACGGCTTA
CCCAGGTATAGGTGGCTTACGCATGCTTGGAACTATTTTCAGAGAGAGTTTAAGTGCTGCGGAGTGGTCT
ACTTCACCGATTGGTTGGAAATGACAGAAATGGACTGGCCCCAGACTCCTGCTGTGTTAGGGAGTCCC
AGGATGCTCCAAGCAGGCTCACCAGGAAGACCTCAGTGACCTGTACCAAGAGGGTTGTGGGAAGAAAATG
TATTCCTTTTGGAGGAACCAACAATTGCAAGTACTAAGGTTTCTGGGGATCTCCATTGGTGTGACAC
AAATTCTAGCCATGATTCTCACCATTACTCTGCTCTGGGCTCTGTATTATGATAGAAGGGAGCCTGGGAC
AGACCAAAATGCTATCTCTAAAAAATGATGCGTCACAACACTTGTCTGTCACTCTGTGGAAGTGTAAAA
CCAAGCCTTTCTAGGATCTTTGAACATACATCAATGGCAAACAGCTTCAATACCCACTTTGAGATGGAAG
AATTATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001015026



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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:	<ol style="list-style-type: none"> 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:	<u>NM_001015026.1</u> , <u>NP_001015026.1</u>
RefSeq Size:	2563 bp
RefSeq ORF:	918 bp
Locus ID:	362326
UniProt ID:	<u>Q569A2</u>
Cytogenetics:	4q22
Gene Summary:	Regulator of cell surface receptor signal transduction. 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). 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).[UniProtKB/Swiss-Prot Function]