

Product datasheet for **MG204278**

Tspan12 (NM_173007) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tspan12 (NM_173007) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Tspan12
Synonyms:	9030619E17; AI426782; AI663988; AW111457; Tm4sf12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204278 representing NM_173007 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGAGAAGATTCCGTGAAGTGGTTGCGCTGCTTGCTCTACGCCCTCAACCTGCTCTTTGGTTAA
TGTCCATCAGTGTCTTGGCAGTTTCTGCTTGGATGAGGGACTACCTGAATAATGTTTTGACTTTAACTGC
AGAAACAAGGGTAGAAGAAGCGGTCATCTTAACCTACTTCCCCGTGGTTCACCCCGTCATGATTGCTGTC
TGCTGCTTCTTATCATCGTGGGAATGCTGGGATACTGTGGAACGGTGAAAAGAAATCTGTTGCTTCTTG
CATGGTACTTCGGAACGTTACTCGTCATCTTCTGTGTAGAACTGGCTTGCCTGTGTGGACATACGAGCA
GGAGGTTATGGTGCCAGTACAGTGGTCAGATATGGTTACTTTGAAAGCCAGAATGACAAATTACGGCTTA
CCGAGGTATAGATGGCTTACACACGCTTGGAAATATTTTCAGAGAGAGTTAAGTGTGTGGAGTGGTGT
ACTTCACTGACTGGTTGGAAATGACAGAAATGGACTGGCCTCCCGACTCCTGCTGTGTGAGGGAGTTCCC
AGGGTGTCCAAGCAGGCTCACCAGGAAGATCTCAGTGACCTTTACCAAGAGGGTGTGGGAAGAAGATG
TATTCCTTTTGGAGGAACCAACAATTGCAAGTTCTAAGGTTTCTGGGAATCTCCATTGGTGTGACAC
AAATCCTGGCCATGATTCTCACCATTACTCTGCTCTGGGCTCTGTATTATGATAGAAGGGAGCCTGGAAC
AGACCAAAATGCTATCTCTGAAAAATGATACGCTCTCAGCACTTGTTCATGTCATTCTGTGGAAGTGTAAAA
CCAAGTCTTTCAAGGATCTTTGAGCATAACATCAATGGCAAACAGCTTCAATACACATTTTGAGATGGAAG
AATTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204278 representing NM_173007
 Red=Cloning site Green=Tags(s)

MAREDSVKLRCLLYALNLLFWLMSISVLAVSAWMRDYLNNVLTETAETRVEEAVILTYFPVHPVMIAV
 CCFLIIVGMLGYCGTVKRNLLLLAWYFGTLLVIFCVELACGVWVYEQEVMVPVQWSDMVLKARMTNYGL
 PRYRWLTHAWNYFQREFKCCGVVYFTDWLEMTMDWPPDSCCVREFPGCSKQAHQEDLSDLYQEGCGKKM
 YSFLRGTKQLQVLRFLGISIGVTQILAMILTITLLWALYYDRREPQDMLSLKNDTSQHLSCHSVELLK
 PLSRIFEHSTSMANSFNTHFEMEEL

TRTRPLE - GFP Tag - V

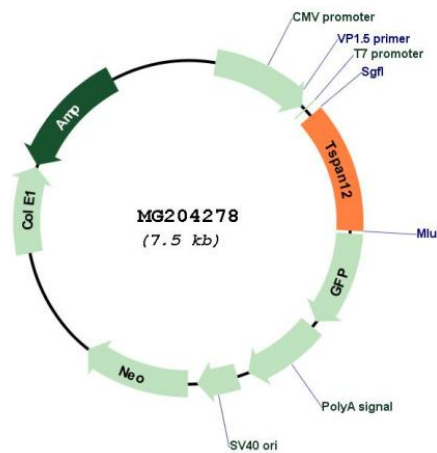
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_173007

ORF Size: 915 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:	<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:	NM_173007.4
RefSeq Size:	2491 bp
RefSeq ORF:	918 bp
Locus ID:	269831
UniProt ID:	Q8BKT6
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. Suprisingly, 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]