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Product datasheet for MR215968

Tnn (NM_177839) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnn (NM_177839) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tnn
Synonyms:	tenascin-W; TN-W; Tnw
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR215968 representing NM_177839, codon optimized.
Due to the complexity of NM_177839, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGACTGTGGGGAATGCTCGCATTCCCCCTGGGCTTTTTGCTCGCCTCCGTGCTGCTTGTCGCCAGCG
CGCCCGCAACACCAGAATCTCCAGGCTGCTCCAACAAGGAGCAGCAGGTCACTGTGTCCCATACATACAA
GATAGATGTGCCTAAATCTGCCCTCGTGCAGGTTGAGACAGATCCTCAGAGTCTCAGTGACGACGGAACA
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CCGATTGCGATCAGCCAACATGCCCCGGGGCTTGCAACGGACACGGACGATGCGTCGATGGACAGTGCGT
GTGCGATGCTCCCTATGTAGGAGTGGACTGCGCTTACGCCGCGTGTCCCCAGGATTGTTCAGGGCATGGA
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TATCGTCACACTTCGAAACGTAAAGAAGGACATCAGCTCAAGTCCCCAGCACCTGCTGGCAACAACCGAT
CTCGCAGTCGTAGGCACCGCCTGGGTTAACGAAGAAACAGAAACTTCTCTTGACGTGGAATGGGAGAACC

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CACTTACGGAAGTCGACTATTATAAGCTCAGATATGGGCCCCTGACAGGCCAGGAAGTGACTGAAGTCAC
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Protein Sequence:

>MR215968 representing NM_177839
Red=Cloning site Green=Tags(s)

MGLWGMLAFPLGFLLASVLLVASAPATPESPGCSNKEQQVTVSHTYKIDVPKSALVQVETDPQSLSDDGT
SLLAPGEDGEEQNIIFRHNIRLQTPQKNCDLADSVQDLLARMKKLEEEMAELKEQCNTNRCCQGAADLSR
HCSGHGTFLPETCSCHCDQGWEGADCDQPTCPGACNGHGRCVDGQCVCDAPYVGVDCAYAACPQDCSGHG
VCVQGVCQCHEDFTAEDCSEQRCPGDCSGNGFCDTGECYCEMGFTGPDCSQVVAPQGLQLLKSTENSLLV
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DCSQVQQNTNAASGLYTIYLNGDASRPMQVYCDMDTDGGGWIVFQRRNTGQLDFFKRWRSYVEGFGDPMK
EFWLGLDKLHNLTTGTTTRYEVRADLQTFNESAYAVYDFFQVASSKERYKLSVGKYRGTAGDALTYHNGW
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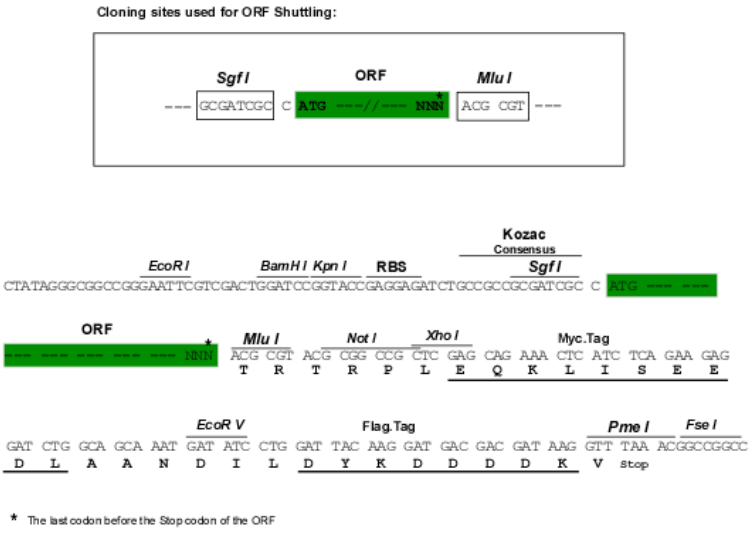
Restriction Sites: SgfI-MluI

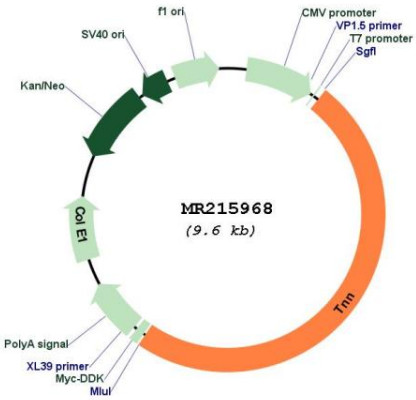
Cloning Scheme:



ACCN: NM_177839

ORF Size:	4680 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.
RefSeq:	NM_177839.1, NM_177839.2, NM_177839.3, NP_808507.2
RefSeq Size:	5825 bp
RefSeq ORF:	4683 bp
Locus ID:	329278
UniProt ID:	Q80Z71
Cytogenetics:	1 H2.1
MW:	173.1 kDa
Gene Summary:	Extracellular matrix protein that seems to be a ligand for ITGA8:ITGB1, ITGAV:ITGB1 and ITGA4:ITGB1 (By similarity) (PubMed:14709716). Involved in neurite outgrowth and cell migration in hippocampal explants (PubMed:12812753). During endochondral bone formation, inhibits proliferation and differentiation of proteoblasts mediated by canonical WNT signaling (PubMed:17395156). In tumors, stimulates angiogenesis by elongation, migration and sprouting of endothelial cells (By similarity). Expressed in most mammary tumors, may facilitate tumorigenesis by supporting the migratory behavior of breast cancer cells (PubMed:15592496).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215968