

Product datasheet for **MC221360**

Comp (NM_016685) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Comp (NM_016685) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Comp
Synonyms:	TSP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC221360 representing NM_016685
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCCCACTGCCTGCGTTCTAGTGCTCGCCCTGGCTATCCTGCGGGCGACAGGCCAGGGCCAGATCC
 CGCTGGGTGGAGACCTGGCCCCACAGATGCTGCGAGAACTTCAGGAGACTAATGCGGCGCTGCAAGACGT
 GAGAGAGCTGTTGCGACAGCAGGTCAAGGAGATCACCTTCCTGAAGAATACGGTGATGGAATGTGATGCT
 TGCGGAATGCAGCCCGCACGCACTCCAGGCCTGAGCGTGCGGCCAGTGCCGCTCTGCGCACCCGGCTCCT
 GCTTCCCCGGGTAGTCTGCTCCGAGACAGCTACGGGCGCGCTGCGGCCCTGCCCTCTGGCTACAC
 CGGCAACGGCTCGCACTGCACCGACGTTAATGAGTGCAATGCTCACCCCTGTTTCCCGCGGGTGCGGTGC
 ATCAATACCAGCCCTGGCTTTCCTGCGAAGCCTGTCCCCTGGGTTACGCGACCCACCCACGAGGGCG
 TGGGACTGACCTTCGTAAGTCCAACAACAAGTTTGACGGATATTAATGAGTGTGAGACCGGGCAGCA
 CAATTGGTTCCCACTCCGTGTGCGTCAACACCGGGGCTCCTCCAGTGCGGCCCTGCCAGCCGGT
 TTCGTGGGCGACCAAGCTCAGGCTGCCAGCGGCTGGGACGACTTCTGCCCGATGGGTCACCCAGCC
 CGTGCCATGAGAAAGCAAACGCGTCTGGAGCGGGATGGCTCGAGGTCTTGGTGTGTGCAATGGCTG
 GGCCGGCAACGGGCTCCTGTGCGGCCGCGACACGGACCTGGACGGTTTTCTGACGAGAAGCTTCGCTGC
 TCAGAGCGCCAGTGTGCAAGGACAACGCGTGACGGTGCCCAATTCGGGCGAGGAGATGTGGACCGGG
 ACGGCATCGGAGATGCTGTGACCCGGATGCGGACGGGATGGAGTCCCTAACGAGCAAGACAATTGCC
 GCTGGTTCGAAACCCAGACCAGCGTAACGCGACAGTATAAGTGGGAGATGCCTGCGACAACGCGG
 ATGGCGACCGAATACGAAATGTAGTGAACAAGTGTCCCAGGATGTTGACCAAGTGTGACAGTGA
 TGGTGTGGTGTGGGATGCCTGTGACAAGTGTCCCAGAAAGATAACCCAGACCAGAGGGATGTGGAC
 CACGACTTGTGGGTGATGCCTGTGATAGTGACCAAGACCAGGATGGGATGGTACCAGGACTCCCGGG
 ACAACTGCCCCACAGTACCCAACAGTGCACGACGAGTACTCAGATCATGATGGCAAGGGCGATGCCTGTGA
 TGACGATGATGACAATGACGGAGTTCCTGATAGCCGGGACAACGCGCTTGGTGCCTAACCCCTGGCCAA
 GAGGACAATGACCGGGATGGCGTGGGTGACGCGTGTGAGGTTGACTTCGATGCTGACAAGGTTATAGACA
 AGATCGATGTGTGCCCGAGAACGCGGAGTACCCTCACCGACTTCAGGGCTTCCAGACGGTTGTGTT
 GGACCCGAGGGTGTGCGCAGATCGATCCCAACTGGGTGGTGTCAATCAGGGAATGGAGATCGTTCAG
 ACCATGAACAGTGACCTGGCTGGCTGTGGGTTACACAGCCTTCAACGCGTGGACTTCGAGGGCACAT
 TCCATGTAACACCGCCACTGATGATGACTATGCTGGTTTCATCTTCGGTACCAAGACAGCTCCAGTTT
 CTACGTAGTCATGTGAAACAGATGGAGCAGACGTAAGTGGCAGGCCAATCCCTTCCGGGCTGTGGCTGAG
 CCAGGGATTCAGCTCAAGGCTGTCAAGTCTCTACAGGTCCCAGGGAAACAGCTCCGAAACGCACTGTGGC
 ACACGGGGGACACAGCATCCCAGGTGCGGCTGCTGTGGAAGGATCCTCGAAACGTTGGCTGGAAGGATAA
 AACATCCTACCGCTGGTTCCTGCAGCACCGGCTCAAGTTGGCTACATCAGGGTGCAGGTTCTATGAGGGT
 CCTGAGCTAGTAGCTGACAGCAATGTGGTGTGGACACGGCCATGCGTGGTGGCCGCTGGGTGTCTTCT
 GCTTCTCCAAGAGAACATCATCTGGGTAACCTGCGCTACCGTTGCAATGATACAATCCCTGAGGACTA
 CGAGAGTACCCGGCTGCAGAGATC**AG**

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII
ACCN: NM_016685
Insert Size: 2268 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:	NM_016685.2 , NP_057894.2
RefSeq Size:	2447 bp
RefSeq ORF:	2268 bp
Locus ID:	12845
UniProt ID:	Q9R0G6
Cytogenetics:	8 34.15 cM
Gene Summary:	May play a role in the structural integrity of cartilage via its interaction with other extracellular matrix proteins such as the collagens and fibronectin. Can mediate the interaction of chondrocytes with the cartilage extracellular matrix through interaction with cell surface integrin receptors. Could play a role in the pathogenesis of osteoarthritis. Potent suppressor of apoptosis in both primary chondrocytes and transformed cells. Suppresses apoptosis by blocking the activation of caspase-3 and by inducing the IAP family of survival proteins (BIRC3, BIRC2, BIRC5 and XIAP). Essential for maintaining a vascular smooth muscle cells (VSMCs) contractile/differentiated phenotype under physiological and pathological stimuli. Maintains this phenotype of VSMCs by interacting with ITGA7 (By similarity).[UniProtKB/Swiss-Prot Function]