

Product datasheet for **SC324350**

COMP (NM_000095) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COMP (NM_000095) Human Untagged Clone
Tag:	Tag Free
Symbol:	COMP
Synonyms:	CTS2; EDM1; EPD1; MED; PSACH; THBS5; TSP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_000095, the custom clone sequence may differ by one or more nucleotides

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ATGGTCCCGACACCGCCTGCGTTCTTCTGCTCACCTGGCTGCCCTCGGCGCGTCCGGACAGGGCCAGA
GCCCGTTGGGCTCAGACCTGGGCCCGAGATGCTTCGGGAAGTGCAGGAAACCAACCGCGCCTGCAGGA
CGTGCGGGAGCTGCTGCGGCAGCAGGTACGGGAGATCACGTTCTGAAAAACACGGTGATGGAGTGTGAC
GGTGCGGGATGCAGCAGTCACTACGCACCGCCCTACCCAGCGTGCGGCCCTGCTCCACTGCGCGCCCG
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CGCTGTATCAACACCAGCCCGGGTTCCGCTGCGAGGCTTGCCCGCCGGGTACAGCGGCCCCACCACC
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GCAACATAACTGCGTCCCAACTCCGTGTGCATCAACCCGGGGCTCCTCCAGTGCAGGCCGTGCCAG
CCCGGCTTCGTGGGCGACAGGCGTCCGGCTGCCAGCGGCGGCACAGCGCTTCTGCCCGACGGCTCGC
CCAGCGAGTGCCACGAGCATGCAGACTGCGTCCTAGAGCGCGATGGCTCGCGGTGCTGCGTGTGTCCGT
TGCTGGGCCGGCAACGGGATCCTCTGTGGTCCGGACACTGACCTAGACGGCTTCCCGGACGAGAAGCTG
CGCTGCCCGGAGCGCCAGTGCCGTAAGGACAACCTGCGTGACTGTGCCAAGTCCAGGCGAGGAGTGTGG
ACCGCGATGGCATCGGAGACGCCTGCGATCCGGATGCCGACGGGGACGGGGTCCCAATGAAAAGGACAA
CTGCCCGTGGTGCAGAACCCAGACCAGCGCAACACGGACGAGGACAAGTGGGGCGATGCGTGCGACAAC
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CTCGGGACAACGTCCCACGGTGCCTAACAGTGCCAGGAGGACTCAGACCAGATGGCCAGGGTATGC
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GGCCAGGAGGACGCGACAGGGACGGCGTGGGCGACGTGTGCCAGGACGACTTTGATGCAGACAAGTGG
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CGTGCTGGACCCGGAGGGTACGCGCAGATTGACCCCAACTGGGTGGTGTCAACCAGGGAAGGGAGATC
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GCAGTTCATGTGAACCGGTACGGATGACGACTATGCGGGCTTCATCTTTGGCTACCAGGACAGCTC
CAGCTTCTACGTGTCATGTGGAAGCAGATGGAGCAAACGTATTGGCAGGCGAACCCCTTCCGTGCTGTG
GCCGAGCTGGCATCCAACCAAGGCTGTGAAGTCTTCCACAGGCCCGGGGAACAGCTGCGGAACGCTC
TGTGGCATAACAGGAGACACAGATCCCAGGTGCGGCTGCTGTGGAAGGACCCGCGAAACGTGGGTTGGAA
GGACAAGAAGTCTATCGTTGGTTCCTGCAGCACCGGCCCAAGTGGGCTACATCAGGGTGCATTCTAT
GAGGGCCTGAGCTGGTGGCCGACAGCAACGTGGTCTTGACACAACCATGCGGGGTGGCCGCTGGGGG
TCTTCTGCTTCTCCAGGAGAACATCATCTGGGCCAACCTGCGTTACCGCTGCAATGACACCATCCCAGA
GGACTATGAGACCCATCAGCTGCGGCAAGCCTAG
    
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- Restriction Sites:** Please inquire
- ACCN:** NM_000095
- 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).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_000095.2</u> , <u>NP_000086.2</u>
RefSeq Size:	2471 bp
RefSeq ORF:	2274 bp
Locus ID:	1311
UniProt ID:	<u>P49747</u>
Cytogenetics:	19p13.11
Domains:	EGF_CA, tsp_3, EGF, EGF
Protein Families:	Druggable Genome, Secreted Protein
Protein Pathways:	ECM-receptor interaction, Focal adhesion, TGF-beta signaling pathway
Gene Summary:	The protein encoded by this gene is a noncollagenous extracellular matrix (ECM) protein. It consists of five identical glycoprotein subunits, each with EGF-like and calcium-binding (thrombospondin-like) domains. Oligomerization results from formation of a five-stranded coiled coil and disulfides. Binding to other ECM proteins such as collagen appears to depend on divalent cations. Contraction or expansion of a 5 aa aspartate repeat and other mutations can cause pseudoachondroplasia (PSACH) and multiple epiphyseal dysplasia (MED). [provided by RefSeq, Jul 2016]