

## Product datasheet for **SC116330**

### 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:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC116330 sequence for NM\_000095 edited (data generated by NextGen Sequencing)

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ATGGTCCCCGACACCGCCTGCGTTCTTCTGCTCACCTGGCTGCCCTCGGCGCGTCCGGA
CAGGGCCAGAGCCCGTTGGGCTCAGACCTGGGCCCGCAGATGCTTCGGGAACTGCAGGAA
ACCAACCGGGCGCTGCAGGACGTGCGGGAGCTGCTGCGGCAGCAGGT CAGGGAGATCACG
TTCCTGAAAAACACGGTGATGGAGTGTGACGCGTGCGGGATGCAGCAGT CAGTACGCACC
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ATCAACGAGTGTGAGACCGGGCAACATAACTGCGTCCCCAACTCCGTGTGCATCAACACC
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GCAGACTGCGTCTAGAGCGCGATGGCTCGCGGTGCTGCGTGTGTGCCGTTGGCTGGGCC
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CGCTGCCCGGAGCGCCAGTGCCGTAAGGACA AACTGCGTGACTGTGCCAACTCAGGGCAG
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CGGGACA AACTGCCGCTGGTGCCTAACCCCGCCAGGAGGACGCGGACAGGGACGGCGTG
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TCCTATCGTTGGTTCTGCGACACCGGCCCAAGTGGGCTACATCAGGGTGCGATTCTAT
GAGGGCCCTGAGCTGGTGGCCGACAGCAACGTGGTCTTGGACACAACCATGCGGGGTGGC
CGCCTGGGGTCTTCTGCTTCTCCAGGAGAACATCATCTGGGCCAACCTGCGTTACCGC
TGCAATGACACCATCCAGAGGACTATGAGACCCATCAGCTGCGGCAAGCCTAG

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Clone variation with respect to NM\_000095.2

<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_000095 unedited          NGGGTTCAAATAGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGCCAGCT          CCCCGCCACCGCCATGGTCCCGACACCGCCTGCGTTCTTCTGCTCACCCTGGCTGCCCT          CGGCGCGTCCGGACAGGGCCAGAGCCCGTTGGGCTCAGACCTGGGCCCGCAGATGCTTCG          GGAAGTGCAGGAAACCAACGCGCGCTGCAGGACGTGCGGGAGCTGCTGCGGCAGCAGGT          CAGGGAGATCACGTTCTGAAAAACACGGTGATGGAGTGTGACGCGTGCGGGATGCAGCA          GTCAGTACGCACCGCCCTACCCAGCGTGGGCCCTGCTCCACTGCGCGCCCGGCTTCTG          CTTCCCCGGCGTGGCCTGCATCCAGACGGAGCGGCGCGCTGCGGCCCTGCCCCGC          GGGCTTACGGGCAACGGCTCGCACTGCACCGAGTCAACGAGTGAACGCCACCCCTG          CTTCCCCGAGTCCGCTGTATCAACACCAGCCGGGTTCCGCTGCGAGGCTTGCCCGCC          GGGGTACAGCGGCCACCCACCAGGGCGTGGGGCTGGCTTTCGCCAAGGCCAACAGCA          GGTTCGACGGACATCAACGAGTGTGAGACCGGGCAACATAACTGCGTCCCAACTCCGT          GTGCATCAACACCGNGCTCCTCCAGTGCGGCCGTGCCAGCCCGCTTCGTGGGCGA          CCAGGCGTCCGGTGCACGCGCGCGCACAGCGTTCTGCCCGACGGCTCGCCAGCGA          GTGCCACGAGCATGCAGACTGCGTCTANAGCGGATGGCTCGCGGTGCTGCGTGTGTGC          CGTTGGGCTGGCCGCAACGGGATCCTCTGTGGTGCAGACTGACCTANACGGCTTCCC          GACGAAAGCTGCGCTGCCCGGAGCGAG</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_000095 unedited          GGAAGTCCGCACTTTNATTCTGCTCTCTGGACCTTCTCACTTCCCCCTCAGGCGGC          CACCCCTTGGGGTGGTGCAGAGCCCCATCCAGCCCGGTGAGGGTGGCTGTCATCCG          GCGGGTCTCACCTGGTCCCTAGGCTTGCCGAGCTGATGGGTCTCATAGTCTCTGGG          ATGGTGTCAATGCAGCGTAACGCAGGTTGGCCAGATGATGTTCTCTGGGAGAAGCAG          AAGACCCAGGCGGCCACCCCGCATGGTTGTGTCCAAGACCACGTTGCTGTCGGCCACC          AGCTCAGGGCCCTCATAGAATCGCACCCCTGATGTAGCCACTTGGGGCCGGTGTGCAGG          AACCAACGATAGGACTTCTTGTCTTCCAACCCAGTTTCGCGGGTCTTCCACAGCAGC          CGCACCTGGGACTCTGTGTCTCTGTATGCCACAGAGCGTTCCGAGCTGTTCCCCGGGG          CCTGTGGAAGACTTACAGCCTTGTGTTGGATGCCAGGCTCGGCCACAGCACGGAAGGGG          TTCGCCTGCCAATACGTTTGTCTCATCTGCTTCCACATGACCACGTAGAAGCTGGAGCTG          TCCTGGTAGCCAAAGATGAAGCCCGCATAGTCGTATCCGTGACCGTGTTACATGGAAC          GTGCCCTCGAAGTCCACGCATTGAAGGCAAGTGAACCCACAGCCAGCCCTGGGTGCTG          TTCATTGTCTGCACGATCTCCCTTCCCTGGTTGAACACCACCCATTGGGGTCAATCTGCG          CGTTACCCCTCCGGTCCAAACCACTGTTTGGGAAGCCCTGAAGTCGGTGAGCGTGACT          TCAGCGTTTCTCCGACACAGTATCTTGTGTACCACCTTNTCTGCATAAAATCGGCCCC          GGACCCGTTGCCAGCCCGTCCCGGACCGTACTA</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_000095
<b>Insert Size:</b>	2620 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_000095.2</a> , <a href="#">NP_000086.2</a>
<b>RefSeq Size:</b>	2471 bp
<b>RefSeq ORF:</b>	2274 bp
<b>Locus ID:</b>	1311
<b>UniProt ID:</b>	<a href="#">P49747</a>
<b>Cytogenetics:</b>	19p13.11
<b>Domains:</b>	EGF_CA, tsp_3, EGF, EGF
<b>Protein Families:</b>	Druggable Genome, Secreted Protein
<b>Protein Pathways:</b>	ECM-receptor interaction, Focal adhesion, TGF-beta signaling pathway
<b>Gene Summary:</b>	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 pseudocondroplasia (PSACH) and multiple epiphyseal dysplasia (MED). [provided by RefSeq, Jul 2016]