

## Product datasheet for **SC121421**

### Oncostatin M (OSM) (NM\_020530) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Oncostatin M (OSM) (NM_020530) Human Untagged Clone
Tag:	Tag Free
Symbol:	Oncostatin M
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 sequence for NM\_020530 edited  
 GTCACCCCCAGCGGGCGCGGGCCGGAGCACGGGCACCCAGCATGGGGTACTGCTCACAC  
 AGAGGACGCTGCTCAGTCTGGTCTTGGACTCCTGTTTCCAAGCATGGCGAGCATGGCGG  
 CTATAGGCAGCTGCTCGAAAGAGTACCGCGTGTCTTGGCCAGCTCCAGAAGCAGACAG  
 ATCTCATGCAGGACACCAGCAGACTCCTGGACCCTATATACGTATCCAAGGCCTGGATG  
 TTCCTAAACTGAGAGAGCACTGCAGGGAGCGCCCGGGGCTTCCCCAGTGAGGAGACCC  
 TGAGGGGCTGGCAGGGGGGCTTCTGCAGACCCTCAATGCCACACTGGGCTCGCTCC  
 TGCACAGACTGGCCGACTTAGAGCAGCGCTCCCAAGGCCAGGATTTGGAGAGGCTCG  
 GGCTGAACATCGAGGACTTGAGAAAGCTGCAGATGGCGAGGCCGAACATCCTCGGCTCA  
 GGAACAACATCTACTGCATGGCCAGCTGCTGGACAACCTCAGACACGGCTGAGCCACGA  
 AGGCTGGCCGGGGGCTCTCAGCCGCCACCCCAACCCCTGCCTCGGATGCTTTTCAGC  
 GCAAGCTGGAGGGCTGCAGGTTCTGCATGGCTACCATCGCTTCATGCACTCAGTGGGGC  
 GGGTCTTCAGCAAGTGGGGGAGAGCCCGAACCGAGCCGGAGACACAGCCCCACCAGG  
 CCCTGAGGAAGGGGTGCGCAGGACCAGACCCTCCAGGAAAGGCAAGAGACTCATGACCA  
 GGGGACAGCTGCCCGGTAGCCTCGAGAGCACCCCTTGCCGGTGAAGGATGCGGCAGGTG  
 CTCTGTGGATGAGAGGAACCATCGCAGGATGACAGCTCCCGGGTCCCCAACCTGTTCCC  
 CTCTGCTACTAGCCACTGAGAAGTGCACTTTAAGAGGTGGGAGCTGGGCAGACCCCTCTA  
 CCTCTCCAGGCTGGGAGACAGAGTCAGGCTGTTGCGCTCCACCTCAGCCCCAAGTTCC  
 CCAGGCCCAGTGGGGTGGCCGGGCGGGCCACGCGGGACCGACTTTCATTGATTCAGGGG  
 TCTGATGACACAGGCTGACTCATGGCCGGGCTGACTGCCCCCTGCCTTGTCTCCCGAGG  
 CCTGCCGTCTTCCCTCATGACTTGCAGGGCCGTTGCCCCAGACTTCTCTTTTCC  
 GTGTTTCTGAAGGGGAGGTCACAGCCTGAGCTGGCCTCTATGCCTCATCATGTCCAAAA  
 CCAGACACTGGATGTCTGGGTGACCTCACTTTAGGCAGCTGTAAACAGCGGCAGGGTGT  
 CCAGGAGCCCTGATCCGGGGTCCAGGGAATGGAGCTCAGGTCCAGGCCAGCCCCGAAG  
 TCGCCACGTGGCCTGGGCGAGGTCACTTTACCTCTGTGGACCTGTTTTCTTTTGAAG  
 CTAGGGAGTTAGAGGCTGTACAAGGCCCCACTGCCTGTCGGTTGCTTGGATTCCCTGAC  
 GTAAGGTGGATATTAATAATCTGTAATCAGGACAGGTGGTGAAATGGCGCTGGGAGGT  
 GTACACGGAGGTCTCTGTAAGCAGACCCACCTCCAGCGCCGGGAAGCCCGTCTTGGG  
 TCCTCGTGTGGCTGCTCCCCGGTGGTGGATCCTGGAATTTTCTCACGCAGGAGCCA  
 TTGCTCTCTAGAGGGGTCTCAGAAACTGCGAGGCCAGTTCTTGGAGGGACATGACTA  
 ATTTATCGATTTTATCAATTTTATCAGTTTTATTTATAAGCCTTATTTATGATGTA  
 TATTTAATGTTAATATTGTGCAAACTTATATTTAAACTTGCCTGGTTTCTAAAAA  
 AAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_020530 unedited  
 GGTCAAACATTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGTCACCCC  
 AGCGGGCGCGGGCCNGACAGGGCACCCAGCATGGGGTACTGCTCACACAGAGGACGC  
 TGCTCAGTCTGGTCTTGCCTCTGTTTCCAAGCATGGCGAGCATGGCGGCTATAGGCA  
 GCTGCTCGAAAGAGTACCGCGTGTCTTGGCCAGCTCCAGAAGCAGACAGATCTCATGC  
 AGGACACCAGCAGACTCCTGGACCCTATATACGTATCCAAGGCCTGGATGTTCTAAAC  
 TGAGAGAGCACTGCAGGGAGCGCCCGGGGCTTCCCCAGTGAGGAGACCCTGAGGGGGC  
 TGGGCAGGCGGGGCTTCTGCAGACCCTCAATGCCACACTGGGCTGCGTCTGCACAGAC  
 TGGCCGACTTAGAGCAGCGCCTCCCAAGGCCAGGATTTGGAGAGGTCTGGGCTGAACA  
 TCGAGGACTTGGAGAAGCTGCAGATGGCGAGGCCGAACATCCTCGGGCTCAGGAACAACA  
 TCTACTGCATGGCCAGCTGTGGACAACCTCAGACACGGCTGAGCCACGAAGGCTGGCC  
 GGGGGGCTCTCAGCCGCCACCCCAACCCCTGCCTCGGATGCTTTTCAGCGCAAGCTGG  
 ANGGCTCAGGTTCTCTGCATGGTACCATCGCTTCATGCACTCAGTGGGGCGGGTCTTCA  
 GCAAGTGGGGGAGAGCCGACCCGACCGGAGACACAGCCCCACCAGGCCCTGAGGAA  
 GNGGGGTGCGCAGACCAGACCCTCCAGGAAAGGCAGAGACTCATGACCGGGGACAGCTGC  
 CCGGTAGCCTCGAGTTTTTTTTTTTTTTTTTTTCTTGGCCGTTCTTAATGGGGGAGGGCA  
 CAAGAAAAGCCTTCGCTCCCT

**Restriction Sites:** Please inquire

<b>ACCN:</b>	NM_020530
<b>Insert Size:</b>	2300 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_020530.3</a> , <a href="#">NP_065391.1</a>
<b>RefSeq Size:</b>	1880 bp
<b>RefSeq ORF:</b>	759 bp
<b>Locus ID:</b>	5008
<b>UniProt ID:</b>	<a href="#">P13725</a>
<b>Cytogenetics:</b>	22q12.2
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Secreted Protein, Stem cell relevant signaling - DSL/Notch pathway, Stem cell relevant signaling - JAK/STAT signaling pathway
<b>Protein Pathways:</b>	Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway
<b>Gene Summary:</b>	<p>This gene encodes a member of the leukemia inhibitory factor/oncostatin-M (LIF/OSM) family of proteins. The encoded preproprotein is proteolytically processed to generate the mature protein. This protein is a secreted cytokine and growth regulator that inhibits the proliferation of a number of tumor cell lines. This protein also regulates the production of other cytokines, including interleukin 6, granulocyte-colony stimulating factor and granulocyte-macrophage colony stimulating factor in endothelial cells. This gene and the related gene, leukemia inhibitory factor, also present on chromosome 22, may have resulted from the duplication of a common ancestral gene. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [provided by RefSeq, Jan 2016]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript and encodes the longer isoform (1).</p>