

## Product datasheet for **SC105547**

### OSTM1 (BC016376) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	OSTM1 (BC016376) Human Untagged Clone
Tag:	Tag Free
Symbol:	OSTM1
Synonyms:	GIPN; GL; HSPC019; OPTB5
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for BC016376, the custom clone sequence may differ by one or more nucleotides

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GGGGGCGGAAACCGGAAGCGGGCTGTCCGGTGGCGGCTGGGGGCGGAGAGGCGGGCTGGGCTCCC  
TGGGGTGTGTGAGCCCGGTGATGGAGCCGGGCCGACAGCCGCGCAGCGGAGGTGTTCTGTGCCCGCTG  
GCTGCCGCTGGGGCTGCTGTGGTGGGGCTGGCCCTGGGCGGCTCCCCTTCGGCAGCAGTCCGCAC  
AGGGTCTTCCACGACCTCCTGTGGAGCAGCAGTTGCTGGAGGTGGAGGACTTGTCCCTGTCCCTCCTGC  
AGGGTGGAGGGCTGGGGCTCTGTGCTGCCCGGACCTGCCGGATCTGGATCTGAGTGCCGGGAGCT  
CCTGTGGACTTCGCCAACAGCAGCGCAGAGCTGACAGGGTGTCTGGTGCAGCAGCGCCGGCCCGTGC  
CTCTGTGACAGCTGTACCCCTCTTCCACAGGTCGTGACGAAGATGGACAACATCAGCCGAGCCGCG  
GGAATACTTCAGAGAGTCAGAGTTGTGCCAGAAGTCTCTTAATGGCAGATAGAATGCAAATAGTTGTGAT  
TCTCTCAGAAATTTTTAATACCACATGGCAGGAGGCAAATGTGCAAATGTTTAAACAACAACAGTGAA  
GAATTATCAAACAGCACAGTATATTTCTTAATCTATTTAATCACACCCTGACCTGCTTTGAACATAACC  
TTCAGGGGAATGCACATAGTCTTTTACAGACAAAAAATTATTCAGAAGTATGCAAAAATGCCGTGAAG  
CATACAAAATCTGAGTAGTCTGTACAGTGAAATGCAAAAATGAATGAACCTTGAGAATAAGGCTGAACC  
TGAACACATTTATGCATTGATGTGGAAGATGCAATGAACATCACTCGAAAATATGGAGTCGAACCTTC  
AACTGTTCACTCCCTTGCAGTGACACAGTGCTGTAATTGCTGTTTCTGTGTTTCTCTTTCTACCTG  
TTGTCTTCTACCTTAGTAGCTTTCTTCACTCAGAGCAAAAAGAAACGAAAATCATTCTGCCAAAACGCT  
CAAGTCCAGTACCAGTTTTGCAAAATTCAGGAAAATTCAAAATGAGACCTACAAAATGGAGAATTGACA  
TATCACGTGAATGAATGGTGAAGACACAACCTGGTTTCAGAAAGAAGATAAACTGTGATTTGACAAGTC  
AAGCTCTTAAGAAATACAAGGACTTCAGATCCATTTTTAAATAAGAATTTTCGATTTTCTTTCTTTTC  
CACTTCTTCTAACAGATTTGGATTTTTAATTTCCAGGCATAGCAATGTTATCTATTTAATGTGAT  
TTGTCAATAACAGAACATGCAAGAACAATCATTATTTTATTTATAGGCATTTGATTACTATTCTAGA  
CTTCTGGTATCTTCTACTAACATAAATATCTCAAGTAGAAAAGTTTTGAAAATAACATTTAAAAAAT  
AATCAGTTACAGTAAAGACTTTGAAAAGAAATGTAAGTGTAGGAAGTAGCTTAATTACCCCCATTGC  
AGTATTATTGTTATATATAGTTAATATGTTGTACATACAATAATATAAATTCAGTCTCTAGTTTCC  
CTAGAGTCATTTTGAACCACTGATTGCAACCTCCCTGACAATTTTAAAAGTAGTAAGCCACATTAC  
ATTTATCTTTGAAAAAGATTTATGGTAACTGGTTTCTACTTGACTTTTATAAATAGTATTTTACATCT  
TATTTTGCCTTTATTTTCATAAGTAATTTAAAAATCACTGGATTGCTTTATTATATTAGGGCAATATGG  
ATTATTTTATACCAAGGATTTGCATCGTGAATTACATTAAGTATTTGGCAATTTATAATTTTACTA  
CTTAAATCAAATGTAGCATTATCACACTGTATTTAAATTTGCATTTTTTAAAGGAATTTTTCTTCTTA  
AGATATATAGAGGATTTGGAGAAGAGACAGGAGGGTAAAACCAAGCTTAAGGTTTCAGCGAGCAGAAA  
GGGACCTGAGAGGATGCTCACTGTAAGACTGTTGGACAGTGGTGTGATTGAGGGGATGAATCGGAACGA  
TAGTCTCATGCAGAAAATAGTGAGATTAAGATCATCCTTATTGTTTCTAAATTTTCAATCAGATGAAA  
GTGATACGATTGAAATGAAATCACATAGTTCGTGCTCAGAAAATCTATTTGGTATGTTTGTATTAGCCT  
TTAGAAAAAACTCCGTTTCAGAATTGTTACAGTTTTATTTCTTAGGTTTTAGAGTTTCAGGATTTCA  
TTTATTAATTTCTTCTGCTTTTTGGTGGAAATAGGCTTTGTTGTAACATTAAGAATATAAAATCTCC  
TCTATATAGAAACAAGAATTTTGTAAAAAGAGAATTTGAATCCCTTCTATACTATAAAATGCTCTATA  
CGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC016376 unedited TTCATACCCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATA AGCAGAGCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCG CGAATTCGGCACCAGCTCGGCCTGCGCTCGCGAAACCGAAGCGGGCGCTGCCGCGGT GCCGGCTGGGGGCGGAGAGGGCGGCGTGGGCTCCCTGGGGTGTGTGAGCCCGGTGATGGA GCCGGGCCGACAGCCGCGCAGCGGAGGTGTTTCGTTGCCGCGTGGCTGCCGCTGGGGCT GCTGCTGTGGTCCGGGCTGGCCCTGGGCGCGCTCCCCTTCGGCAGCAGTCCGCACAGGGT CTTCCACGACCTCCTGTGCGAGCAGCAGTTGCTGGAGGTGGAGGACTTGTCCCTGTCCCT CCTGCAGGGTGGAGGGCTGGGGCTCTGTGCTGCCCGGACCTGCCGGATCTGGATCC TGAGTGCCGGGAGCTCCTGCTGGACTTCGCCAACAGCAGCGCAGAGCTGACAGGGTGTCT GGTGCGCAGCGCCCGGCCGTGCGCCTCTGTCAGACCTGTACCCCTCTTCCAACAGGT CGTCAGCAAGATGGACAACATCAGCCGAGCCGCGGGGAATACTTCAGAGAGTCAGAGTTG TGCCAGAAGTCTTTAATGGCAGATAGAATGCAAATAGTTGTGATTCTCTCAGAAATTTT TATACCACATGGCANGAGGCAAATGTGCAAATGTTTAAACAAACACAGTGAAGAATTA TCAAACAGCACAGTATATTTCTTAATCTATTTATCACACCCTGACCTGCTTTTGACATA CCCTNCAGGGGAATGCACATAGTCTTTTACAGACAAAAATTATTCAGAGTTTGCAAACT GCCGTGAAGCATACAACTCTGAGTAGTCTG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	BC016376
<b>Insert Size:</b>	3800 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="#">BC016376.1</a>
<b>RefSeq Size:</b>	2483 bp
<b>RefSeq ORF:</b>	2483 bp
<b>Locus ID:</b>	28962
<b>Cytogenetics:</b>	6q21
<b>Protein Families:</b>	Transmembrane

**Gene Summary:**

This gene encodes a protein that may be involved in the degradation of G proteins via the ubiquitin-dependent proteasome pathway. The encoded protein binds to members of subfamily A of the regulator of the G-protein signaling (RGS) family through an N-terminal leucine-rich region. This protein also has a central RING finger-like domain and E3 ubiquitin ligase activity. This protein is highly conserved from flies to humans. Defects in this gene may cause the autosomal recessive, infantile malignant form of osteopetrosis. [provided by RefSeq, Jul 2008]