

Product datasheet for **SC128280**

OSTM1 (NM_014028) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSTM1 (NM_014028) Human Untagged Clone
Tag:	Tag Free
Symbol:	OSTM1
Synonyms:	GIPN; GL; HSPC019; OPTB5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC128280 sequence for NM_014028 edited (data generated by NextGen Sequencing)

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ATGGAGCCGGGCCGACAGCCGCGCAGCGGAGGTGTTTCGTTGCCCGCTGGCTGCCGCTG
GGGCTGCTGCTGTGGTCGGGCTGGCCCTGGGCGCGCTCCCTTTCGGCAGCAGTCCGCAC
AGGGTCTTCCACGACCTCCTGTGCGGAGCAGAGTTGCTGGAGGTGGAGGACTTGTCCCTG
TCCCTCCTGCAGGGTGGAGGGCTGGGGCTCTGTGCTGCCCGGACCTGCCGGATCTG
GATCCTGAGTGCCGGGAGCTCCTGCTGGACTTCGCCAACAGCAGCGCAGAGCTGACAGGG
TGTCTGGTGCGCAGCGCCCGCCGCTGCGCCTCTGTGACACTGCTACCCCTCTTCAA
CAGGTCGTCAGCAAGATGGACAACATCAGCCGAGCCGGGGAATACTTCAGAGAGTCAG
AGTTGTGCCAGAAGTCTTAAATGGCAGATAGAATGCAAATAGTTGTGATTCTCTCAGAA
TTTTTAAATACCACATGGCAGGAGGCAAATTTGTGCAAATGTTTAAACAAACAACAGTGAA
GAATTATCAAACAGCACAGTATATTTCTTAATCTATTTAATCACACCCTGACCTGCTTT
GAACATAACCTTCAGGGGAATGCACATAGTCTTTTACAGACAAAAAATTATTCAGAAGTA
TGCAAAAACTGCCGTGAAGCATACAAACTCTGAGTAGTCTGTACAGTGAAATGCAAAAA
ATGAATGAACTTGAGAATAAGGCTGAACCTGGAACACATTTATGCATTGATGTGGAAGAT
GCAATGAACATCACTCGAAAATATGGAGTCGAACTTTCAACTGTTTCAGTCCCTTGCACT
GACACAGTGCCTGTAATTGCTGTTTCTGTGTTTCATTCTCTTTCTACCTGTTGCTCTCTAC
CTTAGTAGCTTTCTTCACTCAGAGCAAAAAGAAACGAAACTCATTCTGCCCAAACGTCTC
AAGTCCAGTACCAGTTTTGCAAATATTCAGGAAAATTCAAACTGA
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Clone variation with respect to NM_014028.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014028 unedited</p> <pre>TAATACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGGGTGCCGGCTGGGGGCGG AGAGGGCGGCGGTGGGCTCCCTGGGGTGTGTGAGCCCGGTGATGGAGCCGGGCCGACAGC CGCGCAGCGGAGGTGTTTCGTTGCCCGCTGGCTGCCGCTGGGGCTGCTGCTGTGGTGGG GCTGGCCCTGGGCGCGCTCCCCTTCGGCAGCAGTCCGCACAGGGTCTTCCACGACCTCCT GTCGGAGCAGCAGTTGCTGGAGGTGGAGGACTTGTCCCTGTCCCTCCTGCAGGGTGGAGG GCTGGGGCCTCTGTGCTGCCCGGACCTGCCGGATCTGGATCCTGAGTGCCCGGAGCT CCTGCTGGACTTCGCCAACAGCAGCGCAGAGCTGACAGGGTGTCTGGTGCGCAGCGCCCG GCCCGTGCCTCTGTGACAGCTGCTACCCCTCTTCAAACAGGTCGTCAGCAAGATGGA CAACATCAGCCGAGCCGCGGGGAATACTTCAGAGAGTCAGAGTTGTCCAGAAGTCTCTT AATGGCAGATAGAATGCAAATAGTTGTGATTCTCTCAGAATTTTTAATACCACATGGCA GGAGGCAAATGTGCAAATGTTTAAACAAACAACAGTGAAGAATTATCAAACAGCACAGT ATATTTCTTAATCTATTTAATCACACCCTGACCTGCTTTGAACATAACCTTCAGGGGAA TGCACATAGTCTTTTACAGACAAAAATTATTCAGAAAGTATGCANAACTGCCGTGAAGCA TACAACTCTGAGTAGTGTACAGTGAATGCANAAATGAATGAACTGAGATAAGGCT GACCTGAACACATTATGCATGTTGGGGAAGAGCATGACATACTCGAAACTATGAGTCGAC TTCAACTGTCATNCTGANNGACANGCCGNATGCCNGNNTGGGTCATCTTTCCACT GTGGCTCACTT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' genomic read for NM_014028 unedited</p> <pre>AGGGCGCGGACCTCCGGGCCGGAAGGCACCGGGGAGGGGTACAGGGACGCCACCCGGGA TCTGTTCAAGAAACAGCTATGACCGCGCCGAATCTAGAGTCGAGTTTTTTTTTTTTTTT TTTTACAATCTCCTTATTTCTTTATTTAATGTGTCAAAAAACACCTAAAGATATTCT TGTAATACATATAAGCTGTGTCAACATTCAGTACTATGCAAATCATTTTTCAATATG ACAAAAAGAAAACTCACACACTTTAGGGTAGCGCTTAATACTTATCTTTGAAATCTATT GCTGATGCTAGGTCTAAAGAGCAATGACTCAACCAGAAAAATAGTAAAGGCTGCCTTTT CCTTTTTAAAGTGCTTATTAGCTTTATATCCAAAAACAATGGTTTTTACAAATACATAAT ACTGAAAGGTGCTCAAAAAGTCAACACTTACAGAATTGAACATGTCATTTTCTAACTCTG CACATGTAACCTGTTTTATCTGCATTAATGAAGATTGCTTCAAATGGCTCTCAATCATA TGCTTCAAATCAAGACAGTGTAAAGTCCAGCAGCATAAACAGTGACAGCAGAACAAACC CCAGCACATTTTCAGTGGATCACAGCAGATCAGAGAAAGTGTAAACAGCTTTTGAGTATGT TATACATCCAAGAGCCTTATATTTCACTCCACATAAACAGTAAACATAAAAGAAAAAAGA AACACTTTGTCTCCCTATAGAGCATTATAGTATAGGAAGGGATTCAAATTTCTTTTTT AACAAAATTTCTTTCTATATAGAGGAGATTTTATATTCTTAATGTTTACACAAGCCTA TTTCCACCAAAAAGCAGAGAAATAATAATGAATCCTGACTCTAAAACCTAAGAAATAAA ACTGTGAACAATTCTGAACGGGAGTGTTTTTTTCTAAGGCTA</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_014028
Insert Size:	3200 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:

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_014028.3](#), [NP_054747.2](#)

RefSeq Size: 4467 bp

RefSeq ORF: 1005 bp

Locus ID: 28962

UniProt ID: [Q86WC4](#)

Cytogenetics: 6q21

Protein Families: 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]