

Product datasheet for **RG209871**

OSTM1 (NM_014028) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSTM1 (NM_014028) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OSTM1
Synonyms:	GIPN; GL; HSPC019; OPTB5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG209871 representing NM_014028 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAGCCGGGCCGACAGCCGCGCAGCGGAGGTGTTCTGTTGCCGCCGTGGCTGCCGCTGGGGCTGCTGC
TGTGGTCGGGGCTGGCCCTGGGCGCGCTCCCTTCGGCAGCAGTCCGCACAGGGTCTTCACGACCTCCT
GTCGGAGCAGCAGTTGCTGGAGGTGGAGGACTTGTCCTGTCCCTCCTGCAGGGTGGAGGGCTGGGGCT
CTGTCGCTGCCCCGGACCTGCCGATCTGGATCCTGAGTGCCGGGAGCTCCTGCTGGACTTCGCCAACA
GCAGCGCAGAGCTGACAGGGTGTCTGGTGCAGCGCCCGGCCGTGCGCCTCTGTCAGACCTGCTACCC
CCTCTTCCAACAGGTCTGTCAGCAAGATGGACAACATCAGCCGAGCCGCGGGAATACTTCAGAGAGTCAG
AGTTGTGCCAGAAGTCTCTTAATGGCAGATAGAATGCAATAGTTGTGATTCTCTCAGAATTTTTAATA
CCACATGGCAGGAGGCAAATTGTGCAAATTGTTTAACAAACAACAGTGAAGAATTATCAAACAGCACAGT
ATATTTCTTAATCTATTTAATCACACCTGACCTGCTTTGAACATAACCTTCAGGGGAATGCACATAGT
CTTTTACAGACAAAAATTATTCAGAAGTATGCAAACTGCCGTGAAGCATACAACTCTGAGTAGTC
TGTACAGTGAAATGCAAAAAATGAATGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
TGTGGAAGATGCAATGAACATCACTCGAAAATATGGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGT
GACACAGTGCCTGTAATTGCTGTTCTGTGTTCTATTCTTTCTACCTGTTGCTTCTACCTTAGTAGCT
TTCTTCACTCAGAGCAAAAGAAACGCAAACTCATTCTGCCAAACGTCTCAAGTCCAGTACCAGTTTGC
AAATATTCAGGAAAATTCAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG209871 representing NM_014028
 Red=Cloning site Green=Tags(s)

MEPGPTAAQRCSLPPWLPLGLLLWGLALGALPFGSSPHRVFHDLLSEQLLEVEDLSLSLLQGGGLGP
 LSLPPDLPDLPECRELLLDFASSAELTGCLVRSARPVRLCQTCYPLFQQVVSMDNISRAAGNTSESQ
 SCARSLLMADRMQIVVILSEFFNTTWQEAACANCLTNNSEELSNSTVYFLNLFNHTLTCEHNLQNAHS
 LLQTKNYSEVCKNCREAYKTLSSLYSEMCKMNELENKAEPGTHLCIDVEDAMNITRKLWSRTFNCSVPCS
 DTPVPIAVSVFILFLPVVYFLSSFLHSEKQKRKLILPKRLKSSTSFANIQENSN

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014028

ORF Size: 1002 bp

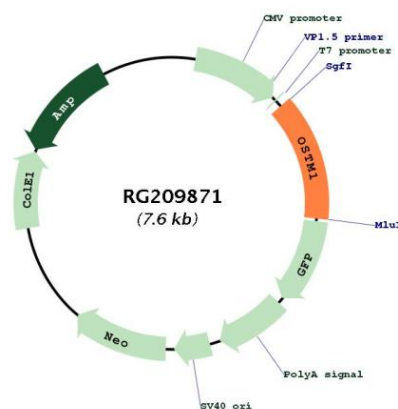
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_014028.4</u>
RefSeq Size:	4467 bp
RefSeq ORF:	1005 bp
Locus ID:	28962
UniProt ID:	<u>Q86WC4</u>
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]

Product images:



Circular map for RG209871