

Product datasheet for **RC224885**

OSTF1 (NM_012383) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	OSTF1
Synonyms:	bA235O14.1; OSF; SH3P2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224885 representing NM_012383
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTCTGAAGCCGCCACCCAAACCACTCAAACCAAGGCAAGTTAAAGTCTTCAGAGCCCTGTATACGTTTG
AACCCAGAACTCCAGATGAATTATACTTTGAGGAAGGTGATATTATCTACATTACTGACATGAGCGATAC
CAATTGGTGGAAAGGCACCTCCAAAGGCAGGACTGGACTAATTCGAAGCACTATGTGGCTGAGCAGGCA
GAATCCATTGACAATCCATTGCATGAAGCAGCAAAAAGAGGCAACTTGAGCTGGTTGAGAGAGTGTGGG
ACAACAGAGTGGGTGTTAATGGCTTAGACAAAGCTGGAAGCACTGCCTTATACTGGGCTTGCCACGGGGG
CCACAAAGATATAGTGGAAATGCTATTTACTCAACCAATATTGAACTGAACCAGCAGAACAAAGTTGGGA
GATACAGCTTTGCATGCTGCTGCCTGGAAGGTTATGCAGATATCGTCCAGTTGCTTCTGGCAAAAGGTG
CTAGAACAGACTTAAGAAACATTGAGAAGAAGCTGGCCTTCGACATGGCTACCAATGCTGCCTGTGCATC
TCTCCTGAAAAAGAAACAGGGAACAGATGCAGTTCGAACATTAAGCAATGCCGAGGACTATCTCGATGAT
GAAGACTCAGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC224885 representing NM_012383

Red=Cloning site Green=Tags(s)

MSKPPPKPVKPGQVKVFRALYTFEPRTPELYFEEDIIYITDMSDTNWWKGTSGKRTGLIPSNYVAEQA
ESIDNPLHEAAKGNLSWLRECLDNRVGVNGLDKAGSTALYWACHGGHKDIVEMLFQPNIELNQNKLG
DTALHAAAWKGYADIVQLLLAKGARTDLRNIKKLAFDMATNAACASLLKKKQGTDAVRTLSNAEDYLDD
EDSD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

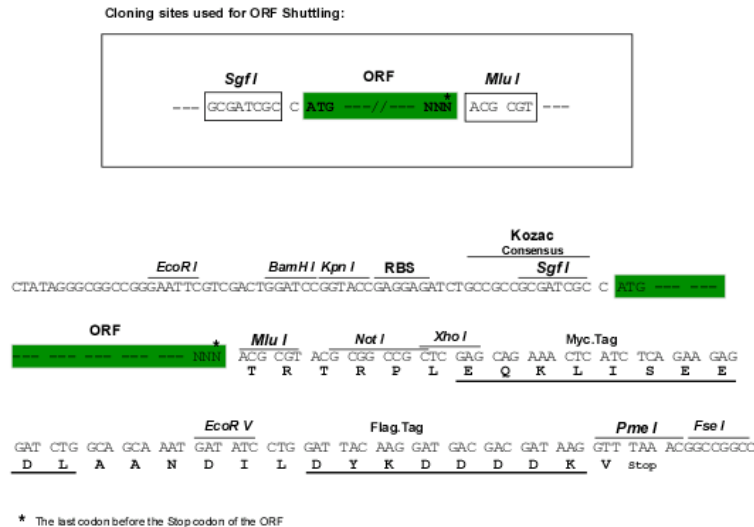
Chromatograms:

https://cdn.origene.com/chromatograms/mk6483_f04.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_012383

ORF Size:

642 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:

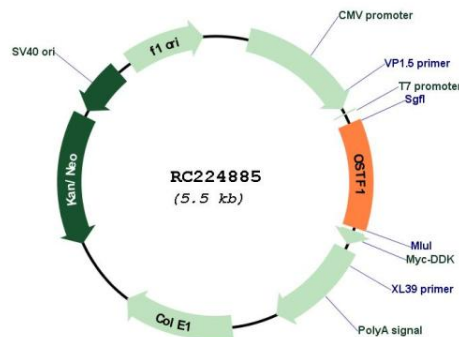
This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components:

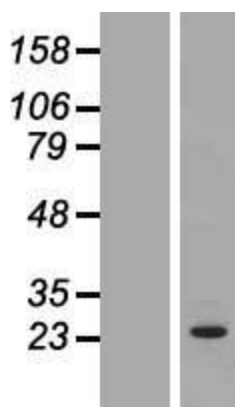
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_012383.5</u>
RefSeq Size:	901 bp
RefSeq ORF:	645 bp
Locus ID:	26578
UniProt ID:	<u>Q92882</u>
Cytogenetics:	9q21.13
Domains:	SH3, ANK
MW:	23.6 kDa
Gene Summary:	Osteoclast-stimulating factor-1 is an intracellular protein produced by osteoclasts that indirectly induces osteoclast formation and bone resorption (Reddy et al., 1998 [PubMed 10092216]).[supplied by OMIM, Mar 2008]

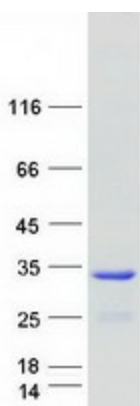
Product images:



Circular map for RC224885



Western blot validation of overexpression lysate (Cat# [LY415823]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224885 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OSTF1 protein (Cat# [TP324885]). The protein was produced from HEK293T cells transfected with OSTF1 cDNA clone (Cat# RC224885) using MegaTran 2.0 (Cat# [TT210002]).