

Product datasheet for **MR226014**

Osm (NM_001013365) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Osm (NM_001013365) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Osm
Synonyms: OncoM
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR226014 representing NM_001013365
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCAGACACGGCTTCTAAGAACACTGCTCAGTTTGACCCTCAGTCTCCTCATCCTGAGCATGGCACTGG
CCAATCGTGGCTGCTCCAACCTCTCCTCTCAGCTCCTCAGCCAGCTGCAGAATCAGGCGAACCTCACGGG
GAACACAGAATCACTCTGGAGCCCTATATCCGCCTCCAAAACCTGAACACACCTGACCTGAGAGCTGCC
TGCACCCAGCACTCTGTGGCCTTCCCAGTGAGGACACACTCCGGCAACTGAGCAAGCCCTACTTCTGA
GCACTGTGTACACCACACTGGACAGAGTCTGTACCAACTGGATGCTTTAAGACAGAAAATTTCTGAAGAC
TCCGGCTTTTCCAAAGCTGGACAGTGCCCGGCACAATATCCTCGGCATAAGGAACAATGTTTTCTGCATG
GCCCGGCTGCTCAACCACTCCCTGGAGATACCTGAGCCCACACAGACAGACTCTGGGGCCTCACGGTCCA
CTACAACACCAGATGTCTTTAATACCAAGATAGGCAGCTGTGGCTTTCTCTGGGGATACCATCGCTTCAT
GGGCTCAGTGGGGAGGGTCTTCAGGGAATGGGACGATGGCTCCACACGCAGCCGGAGACAGACCCCGCTC
CGGGCCCGGCGCAAGGGAACCCGAGAATCCGGGTCCGGCACAAGGGAACCCGAGAATCCGGGTCCGGC
GCAAGGGAACCCGAGAATCTGGGTCCGGCGCAAGGGATCCCAGAAAATCAGACCTTCCAGGAGCACCCA
GAGCCCGACGACCAGGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR226014 representing NM_001013365
Red=Cloning site Green=Tags(s)

MQTRLLRLLSLTL SLLILSMALANRGCSNSSSQLLSQLQNQANLTGNTESLLEPYIRLQNLNTPDLRAA
 CTQHSAVFPSEDTLRQLSKPHFLSTVYTTLDRLVYQLDALRQKFLKTPAFPKLDSARHNILGIRNNVFCM
 ARLLNHSLEIPEPTQTDSGASRSTTTPDVFNKIGSCGFLWGYHRFMGSVGRVFRWDGSTRSRRQSP
 RARRKGTTRRIRVRHKGTTRRIRVRRKGTTRRIWVRRKGSRKIRPSRSTQSPTRRA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1441_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001013365

ORF Size: 789 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.

RefSeq: [NM_001013365.2](#), [NP_001013383.1](#)

RefSeq Size: 1907 bp

RefSeq ORF: 792 bp

Locus ID: 18413

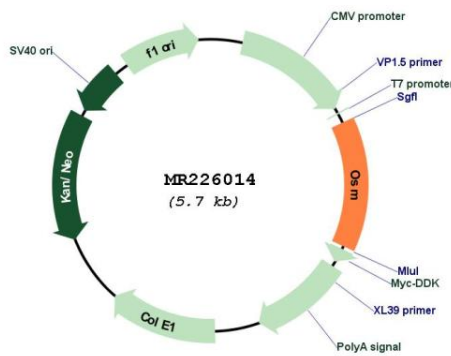
UniProt ID: [P53347](#)

Cytogenetics: 11 2.94 cM

MW: 30.6 kDa

Gene Summary: Growth regulator. Inhibits the proliferation of a number of tumor cell lines. It regulates cytokine production, including IL-6, G-CSF and GM-CSF from endothelial cells (By similarity). Uses only type II OSM receptor (heterodimers composed of OSMR and IL6ST). Involved in the maturation of fetal hepatocytes, thereby promoting liver development and regeneration (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226014