

## Product datasheet for MR229781

### Osgepl1 (NM\_001285839) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Osgepl1 (NM_001285839) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Osgepl1
Synonyms:	2610001M19Rik; AA416452
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229781 representing NM_001285839 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCTAATGTTAAGAAGGACAGCAGGAGCTATCCCAAGCCCCAAAGAGTAAAGTTTATGGATTTTAA  
GAAGATTTAGTGTTTCATCCAGAACTCTCTTGTGCATAAACTGGTCTGGGAATTGAAACCAGCTGTGA  
TGACACAGGAGCGGCTGTGGTGGATGAACTGGGAATGTGCTGGGGGAAGCACTGCACTCCCAAACCTCAG  
GTTTCATCTGAAAACAGGTGGGATTGTTCTCCAGTAGCTCAACAACCTCAGAGAAAAATATTCAACGAA  
TAGTAGAAGAAACTTTTCTGCCTGTAGAATCACCCCAAGCGATCTCTCAGCAATTGCAACTACCATCAA  
ACCGGGACTGGCCCTAAGCTTGGGAGTTGGCTTATCCTTTAGCTTACAGCTAGTAAATCAGTTTAAAAAG  
CCATTCATCCCGATTTCATCACATGGAGGCTCACGCACTGACTATTAGGCTCACCAATAAAGTAGAATTTT  
CTTTTTAGTTCTTTGATTTCTGGCGGTCACTGCCTGTTGGCATTAGTCCAAGGTGTTCCGATTTCT  
GCTCCTTGGGAAGTCTTTGGACATAGCACCAGGCGACATGCTTGACAAGGTGGCAAGAAGACTTTCTTTA  
ATCAAACATCCAGAATGTTCTACAATGAGTGGTGGAAAAGCTATAGAACAGTTGGCCAAAGACGGAAATA  
GATTCATTTTACTATCAATCCACCTATGCAGAATGCTAAGAATTGCGATTTTCTTTTACGGGACTTCA  
ACATATTACTGATAAGCTAATAACACACAAGGAAAAAGAAGAAGCATTGAGAAGGGGCAAAATCCTGTCA  
TCAGCTGCAGACATTGCTGCTGCGGTACAGCATGCAACAGCGTGCCACCTTGCGAAAAGAACACATCGCG  
CTATTCTGTTTTGCAAGCAGAAAAATTTGCTCTCTCCAGCTAACGCAGTATTAGTTGTATCTGGAGGTGT  
TGCAAGTAACTGTACATCCGAAAAGCATTGGAATTTGCGCAAATGCAACGCAGTGCACGTTGTTGTGT  
CCACCTCAAGACTGTGCACTGACAATGGCATCATGATTGCATGGAATGGAATTGAAAGATTACGTGCTG  
GCTTGGGCGTTTTACATGATGTAGAAGACATCCGATATGAACCAAAATGTCCTCTTGGAGTAGACATATC  
CAGAGAAGTTGCAGAAGCTGCCATAAAAGTACCGGATTAATAATGGCACTT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR229781 representing NM\_001285839  
 Red=Cloning site Green=Tags(s)

MLMLRRTAGAIKPKPKSKVYGFLLRRFSVHPRTLCHKLVLGIETSCDDTGAADVDETNVLGEALHSQTQ  
 VHLKTGGIVPPVAQQLHRENIQRIVEETLSACRITPSDL SAIATTIKPGLALSLGVLSFSLQLVNFKK  
 PFIPIHMEAHALTIRL TNKVEFPFLVLLISGGHCLLALVQGVSDFLLLGKSLDIAPGMDLTKVARRLSL  
 IKHPECSTMSGGKAIEQLAKDGNRFHFTINPPMQNAKNCDFSFTGLQHI TDKLI THKEKEEGIEKGQILS  
 SAADIAAAVQHATACHLAKRTHRAILFCKQKNLLSPANAVLVVSGGVASNLYIRKALEIVANATQCTLLC  
 PPRRLCTDNGIMIANGIERLRAGLGVLDHVEDIRYEPKCPLGVDISREVAEAAIKVPRLKMAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001285839

**ORF Size:** 1242 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\\_001285839.1](#), [NP\\_001272768.1](#)

**RefSeq Size:** 1868 bp

**RefSeq ORF:** 1245 bp

**Locus ID:** 72085

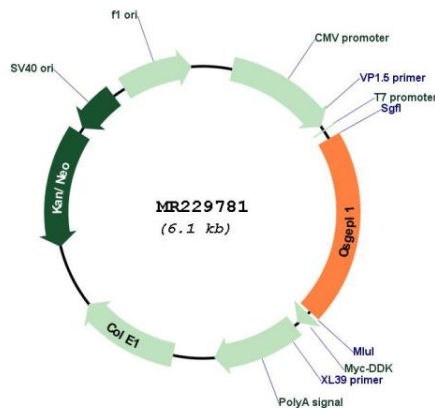
**UniProt ID:** [Q6PEB4](#)

**Cytogenetics:** 1 26.99 cM

**MW:** 44.9 kDa

**Gene Summary:** Required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in mitochondrial tRNAs that read codons beginning with adenine. Probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37. Involved in mitochondrial genome maintenance.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR229781