

Product datasheet for **RN209564**

Osgepl1 (NM_001024787) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osgepl1 (NM_001024787) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Osgepl1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN209564 representing NM_001024787 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTAATGTTAAGTAAGACAGCAGGAGCTATTCCGAGACCACCAAGGAGTAACGTTCTGGATTATATA
GAAGATTTAATGTTCAACCTAGAGCACTTTTCATCATAAACTGGTGCTGGGAATTGAAACCAGCTGTGA
TGACACAGCAGCTGCTGTGGTGGATGAACTGGAAATGTGCTGGGAGAAGCACTGCACTCCCAGACGGAA
GTCCATCTGAAAACAGGTGGGATTGTTCTCCAGTCGCTCAACAGCTTCACAGAGAAAATATTCAGCGAA
TAGTAGAAGAAGCTCTTTCTGCCAGTGGGGTTGGCTTATCCTTTAGCGTACAGCTAGTAAATCAGTTTAAAAAG
ACCAGGACTGGCCCTAAGCCTGGGGTTGGCTTATCCTTTAGCGTACAGCTAGTAAATCAGTTTAAAAAG
CCATTTATCCCAATCCATCACATGGAGGCTCACGCGTGACTATTAGGCTGACCCACAAAGTCGGATTTTC
CTTTTTTAGTTCTTTTGATTTCTGGAGGCCACTGCCTGTTGGCGTTAGTTCAGAGTGTTTCAGATTTTCT
GCTCCTCGGGAAGTCCCTGGACATAGCGCCAGGCGACATGCTTGACAAGGTGGCAAGAAGACTTTCTTTA
ATCAAACATCCAGAATGTTCTACAATGAGTGGTGGGAAAGCTATAGAATTTGGCCAAAGAAGGAAATA
GATTCCACTTTACTATCAATCCACCATGCAGAATGCTAAGAAGTGTGATTTTCTTTACGGGACTTCA
ACATGTCACCGATAAGCTAATAACACACAAGGAAAAAGAAGGCATTGAGAAGGGGCAATCCTGTCA
TCAGCCGAGACATTGCTGCTGCGGTACAGCACGCAACAGCGTGCCACCTTGCGAAAAGAACACATCGTG
CTATTCTGTTTTGCCAGCAGAAAAATTTGCTATCTCCAGCTAACGCAATTAGTTGTGTCTGGAGGTGT
TGCAAGTAACCTGTACATCCGAAGAGCATTGGAATTGTAGCAAAATGCAACACAATGCACTTTGTTGTGT
CCCCCTCCGAGACTGTGCACTGACAATGGTATCATGATTGCATGGAATGGAATTGAAAGATTACGTGCTG
GCTTGGGCATTTTACATGATGTAGAAGACATCCGATACGAACCAAAATGTCCTCTCGGAATAGACATATC
CAGAGAAGTTGCAGAAGCTGCCATAAAAGTACCACGATTAATAATGACACTT**GA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001024787
Insert Size:	1245 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:	<u>NM_001024787.1, NP_001019958.1</u>
RefSeq Size:	1835 bp
RefSeq ORF:	1245 bp
Locus ID:	314548
UniProt ID:	<u>Q4V7F3</u>
Cytogenetics:	9q22
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]