

## Product datasheet for RN201222

### Osgep (NM\_001100510) Rat Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: Osgep (NM\_001100510) Rat Untagged Clone  
 Tag: Tag Free  
 Symbol: Osgep  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Cell Selection: Neomycin  
 Fully Sequenced ORF: >RN201222 representing NM\_001100510  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCCCGCGTGTGGGGTTTGAAGGCAGCGCCAACAAGATTGGCGTGGGCGTGGTCCGCGACGGCACGG  
 TGCTGGCGAACCCGCGGCGCACATACGTCACGGCCCCGGGACCGGTTTCCTTCCAGGTGACACGGCCAG  
 GCACCACCGAGCTGTCATCCTAGACCTACTGCAGGAGCGCTAACAGAGGCAGGGTTAACCCCAAGGAC  
 ATCGATTGCATTGCTTACACCAAAGTCCCTGGCATGGGAGCCCCACTGGCTTCCGTAGCTGTTGTTGCC  
 GCACTGTGGCCAGTTGTGGAATAAGCCTTTGCTAGGCGTGAACCACTGCATAGGCCACATTGAAATGGG  
 CCGCCTCACTAGGAGCCGTCAACCAACTGTCTTGATGTCAGCGGAGGAAATACTCAGGTGATTTC  
 TACTCAGAACATCGTTACCGCATCTTTGGGAAACTATTGATATTGCTGTGGGAAATTGTTGGATCGTT  
 TTGCCCGGTGCTGAAGATTTCCAATGACCCAAGTCCAGGCTACAACATTGAGCAGATGGCAAAGCGAGG  
 CAAGAAGCTAGTGGAGCTGCCATACACCGTGAAGGGGATGGACGCTCTCGTTCTCAGGGATCCTGCCTTC  
 ATCGAGGATGCAGCACAGCGAATGCTGGCCACGGGAGAGTGTACTCTGAAGATCTGTGTTCTCCTTAC  
 AGGAGACTGTGTTGCAATGCTGGTGGAGATCACAGAGCGAGCCATGGCGCACTGTGGCTCCAAAGAAGC  
 CCTCATCGTCGGGGGAGTTGGATGTAACGTACGGCTGCAGGAGATGATGGCAACAATGTGCCAGGAGCGG  
 GGAGCCCAGCTCTTTGCAACAGATGAGAGTTCTGCATTGACAATGGAGCCATGATAGCACAAGCTGGCT  
 GGGAGATGTTTACGGCTGGGCACAGGACCCTCTCCAAGATTCTGGGATCACTCAGAGGTATAGGACAGA  
 TGAAGTAGAAGTGACGTGGAGGGACTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI  
 ACCN: NM\_001100510  
 Insert Size: 1008 bp



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001100510.1</a> , <a href="#">NP_001093980.1</a>
<b>RefSeq Size:</b>	1295 bp
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	290028
<b>UniProt ID:</b>	<a href="#">Q9WVS2</a>
<b>Cytogenetics:</b>	15p14
<b>Gene Summary:</b>	Component of the EKC/KEOPS complex that is required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in tRNAs that read codons beginning with adenine. The complex is probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37. OSGEP likely plays a direct catalytic role in this reaction, but requires other protein(s) of the complex to fulfill this activity.[UniProtKB/Swiss-Prot Function]