

## Product datasheet for **SC324299**

### OSGEP (NM\_017807) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** OSGEP (NM\_017807) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** OSGEP  
**Synonyms:** GAMOS3; GCPL1; KAE1; OSGEP1; PRSMG1; TCS3  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_017807.2  
GCTCGCGGGAGTCCGCGGTGCTTTCCAGTGCTATCTGCAGGCTGGCCAGCTTCTCT  
GCGCTCCGAAAGCTGCGGCCAGCGCGGACTAGTGAGGACCTCCACAGCTCCTGACATT  
GCCAGGAGTCTGTGCGGTTTTCTCCAGCCTCCGCCATGCCGCGGTGCTGGGTTTTG  
AAGGCAGCGCAATAAGATTGGCGTGGGCGTGGTGCAGGATGGCAAGGTGCTGGGAACC  
CGCGGCGGACTTACGTACGCCTCCTGGCACAGGATTCCTTCCAGGTGATACAGCCAGGC  
ATCACCGAGCTGTATCCTAGACCTGCTGCAGGAGGCACTAACAGAGTCTGGATTAACCT  
CCCAGGATATCGACTGCATTGCATACACCAAGGGCCCTGGCATGGGTGCCCACTGGTTT  
CTGTGGCTGTTGTGGCCGACTGTGGCCCACTGTGGAATAAGCCATTGGTGGGTGTA  
ACCACTGTATAGCCACATTGAGATGGGCCGCTCATCACTGGAGCCACCAGCCCAACCG  
TGTTGTATGTGAGTGGAGAAATACGCAGGTGATTGCATACTCGGAACATCGTTACCGTA  
TCTTTGGGAAACCATCGATATTGCAGTGGTAATTGTCTGGATCGTTTTGCTCGAGTGC  
TGAAGATTTCTAACGACCAAGTCCAGGATACAACATTGAACAGATGGCAAGCGAGGCA  
AGAAGCTAGTTGAGCTGCCATACACTGTAAAGGGGATGGACGTCTCATTCTCAGGGATCC  
TGTCTTTCATTGAGGATGTAGCCATCGGATGTGGCCACAGGCGAGTGTACTCTGAGG  
ATCTGTGTTTTCTCCCTGCAGGAACTGTGTTTGAATGCTGGTAGAGATCACAGAGCGAG  
CCATGGCACATTGTGGCTCCCAGGAGGCCCTCATTGTGGGAGGAGTGGGTGTAATGTGA  
GGCTACAGGAGATGATGGCAACAATGTGCCAGGAACGTGGAGCCCGGCTTTTTGCTACAG  
ATGAGAGATTCTGTATTGACAATGGAGCGATGATAGCCAGGCTGGCTGGGAGATGTTTC  
GGGCTGGACACAGGACCCCACTCAGTGATTCTGGGGTTACACAGAGGTATCGGACAGATG  
AAGTAGAGGTGACCTGGAGGGACTAATAAGATCAACAGAATCAGAGTAGATAGTTCCTTA  
ATCGGAACCCAAAGGACCCCGTGCCTCAATCTCTATCCTGATGTCATGGGAGTCTAGCA  
AAGCTATAGACTCCAAGCAAGGCTTGGGGTCTTTATGGAACCCAGGATGACTCAGCAA  
TAAATATTTTTGGTTTTTTGGTTTTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
AA

**Restriction Sites:** Please inquire



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<b>ACCN:</b>	NM_017807
<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>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_017807.2</a></u> , <u><a href="#">NP_060277.1</a></u>
<b>RefSeq Size:</b>	1547 bp
<b>RefSeq ORF:</b>	1008 bp
<b>Locus ID:</b>	55644
<b>UniProt ID:</b>	<u><a href="#">Q9NPF4</a></u>
<b>Cytogenetics:</b>	14q11.2
<b>Domains:</b>	Peptidase_M22
<b>Protein Families:</b>	Druggable Genome, Protease
<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]