

## Product datasheet for SC111335

### 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:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC111335 sequence for NM_017807 edited (data generated by NextGen Sequencing)

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ATGCCGGCGGTGCTGGGTTTTGAAGGCAGCGCCAATAAGATTGGCGTGGGCGTGGTGGCG
GATGGCAAGGTGCTGGCGAACCCGCGGCGACTTACGTACAGCCTCCTGGCACAGATTG
CTTCCAGGTGATACAGCCAGGCATCACCGAGCTGTTATCCTAGACCTGCTGCAGGAGGCA
CTAACAGAGTCTGGATTAACCTCCCAGGATATCGACTGCATTGCATACACCAAGGGCCCT
GGCATGGGTGCCCACTGGTTTTCTGTGGCTGTTGTGGCCGACTGTGGCCAGCTGTGG
AATAAGCCATTGGTGGGTGTGAACCACTGTATAGGCCACATTGAGATGGGCCGCCTCATC
ACTGGAGCCACCAGCCCAACCGTGTGTATGTGAGTGGAGGAAATACGCAGGTGATTGCA
TACTCGGAACATCGTTACCGTATCTTTGGGAAACCATCGATATTGCAGTGGGTAATTGT
CTGGATCGTTTTGCTCGAGTGTGAAGATTTCTAACGACCAAGTCCAGGATACAACATT
GAACAGATGGCAAAGCGAGGCAAGAAGCTGGTTGAGCTGCCATACACTGTAAAGGGGATG
GACGTCTCATTCTCAGGGATCCTGTCTTTCATTGAGGATGTAGCCCATCGGATGCTGGCC
ACAGGCGAGTGTACTCCTGAGGATCTGTGTTTCTCCCTGCAGGAAACTGTGTTTGAATG
CTGGTAGAGATCACAGAGCGAGCCATGGCACATTGTGGCTCCCAGGAGGCCCTCATTGTG
GGAGGAGTGGGTGTAATGTGAGGCTACAGGAGATGATGGCAACAATGTGCCAGGAACGT
GGAGCCCGGCTTTTTGCTACAGATGAGAGATTCTGTATTGACAATGGAGCGATGATAGCC
CAGGCTGGCTGGGAGATGTTTCGGGCTGGACACAGGACCCCACTCAGTGATTCTGGGGTT
ACACAGAGGTATCGGACAGATGAAGTAGAGGTGACCTGGAGGGACTAA

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Clone variation with respect to NM\_017807.3  
294 a=>g;570 a=>g



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_017807 unedited  
 TCATAATTGTATACGACTCACTATAGGCGGCCGCGATTCCGGCACGAGGGCTATCTGCAGG  
 CTGGCCAGCTTCTCTGCGCTCCGGAAGCTGCGGCCAGCGCGGACTAGTGAGGACCTCC  
 ACAGCTCTGACATTGCCAGGAGTCTGTGCGGCTTTTCTCCAGCTCCGCCATGCCGG  
 CGGTGCTGGGTTTTGAAGGCAGCGCCAATAAGATTGGCGTGGCGTGGTGCGGGATGGCA  
 AGGTGCTGGCGAACCCGCGCGGACTTACGTACGCCTCCTGGCACAGGATTCCTCCAG  
 GTGATACAGCCAGGCATCACCGAGCTGTTATCCTAGACCTGCTGCAGGAGGCACTAACAG  
 AGTCTGGATTAACCTCCCAGGATATCGACTGCATTGCATACACCAAGGGCCCTGGCATGG  
 GTGCCCACTGGTTTCTGTGGCTGTTGTGGCCCGTACTGTGGCCAGCTGTGGAATAAGC  
 CATTGGTGGGTGTGAACCACTGTATAGGCCACATTGAGATGGGCCGCTCATCACTGGAG  
 CCACCAGCCCAACCGTGTGTATGTGAGTGGAGGAAATACGCAGGTGATTGCATACTCGG  
 AACATCGTTACCGTATCTTTGGGAAACCATCGATATTGCAGTGGGTAATTGTCTGGATC  
 GTTTTGTCTGAGTGTGAAGATTCTAACGACCCAGTCCAGNATAACATTGAACAGA  
 TGGCANAGCGAGGCAAGAAAGCTGTTGAGCTGCCATACACTGTAAGGGGATGGAGCTCT  
 CATTCTCAGGGATCCTGTCTTTCAATTTGAGATGTAGCCATCGGATGCTGGGCCACAGCG  
 AGTGTACTCCCTGAGATCTGTGTTTCTCCCTTGACAGAACTGTGTTTGCAATGCTGGTAN  
 AGACACAGAGCGACCATGCACATTGTGGCTCCAGN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_017807 unedited  
 CCGCAATCTAGTGTGAGNTTTTTTTTTTTTTTTTTTTTTTTACCAAAAAACAAAATAT  
 TTTATTGCTGAGTCATCCTGGGGTTCATAAAGGACCCCAAGCCTTGCTTGGAGTCTATA  
 GCTTTGCTAGGACTCCCATGACATCAGGATAGAGATTGAGGCACGGGGTCTTTGGGTTC  
 CGATTAAGGAATATCTACTCTGATTCTGTTGATCTTATTAGTCCCTCCAGGTCACCTCT  
 ACTTCATCTGTCCGATACCTCTGTGTAACCCAGAACTCACTGAGTGGGGTCTGTGTCCA  
 GCCCGAAACATCTCCAGCCAGCCTGGGCTATCATCGCTCCATTGTCAATACAGAATCTC  
 TCATCTGTAGCAAAAAGCCGGGCTCCACGTTTCTGGCACATTGTTGCCATCATCTCCTGT  
 AGCCTCACATTACACCCACTCTCCCAATGAGGGCTCCTGGGAGCCACAATGTGCC  
 ATGGCTCGCTCTGTGATCTTACCAGCATTGCAAAACACAGTTTCTGCAGGGAGAAACAC  
 AGATCCTCAGGAGTACTCGCCTGTGGCCAGCATCCGATGGGCTACATCCTCAATGAAA  
 GACAGGATCCCTGAGAATGAGACGTCCATCCCCTTTACAGTGTATGGCAGCTCAACCAGC  
 TTCTTGCCTCGCTTGGCATCTGTTCAATGTTGATCCTGGACTAGGGTCTTAGAACATC  
 TTCAGCACTCGAGCAAAAACGATCCAGACATTTACCCACTGNCATATCGATGGTTTTCCCA  
 AAGATAACCGTAACGATGTTCCGAGTATGCAATCACCTGCGTATTTCTCCACNACATACA  
 ACACGTTGGGCTGGTGGCTCCATGATGATGCGGCCCTCTCATGTGNCATACAGGGGTCA  
 CACCACCATGGCTATTCCAGCTGGGCCAGTACGGCCACACACCACAAATCAATGGGCC  
 ACCTGCCAGGCCCTGTGTTGCATGCATCCATTC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_017807

**Insert Size:**

1440 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:** [NM\\_017807.2](#), [NP\\_060277.1](#)

**RefSeq Size:** 1547 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 55644

**UniProt ID:** [Q9NPF4](#)

**Cytogenetics:** 14q11.2

**Domains:** Peptidase\_M22

**Protein Families:** Druggable Genome, Protease

**Gene Summary:** 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]