

Product datasheet for **RR201222**

Osgep (NM_001100510) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osgep (NM_001100510) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Osgep
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201222 representing NM_001100510 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGCGTGTGGGGTTCGAAGGCAGCGCCAACAAGATTGGCGTGGGCGTGGTCCGCGACGGCACGG
TGCTGGCGAACCCGCGGCGCACATACGTCACGGCCCCGGGCACCGGTTTCCTTCCAGGTGACACGGCCAG
GCACCACCGAGCTGTATCCTAGACCTACTGCAGGAGCGCTAACAGAGGCAGGGTTAACCCCAAGGAC
ATCGATTGCATTGCTTACACCAAAGTCTGGCATGGGAGCCCCACTGGCTTCCGTAGCTGTTGTTGCC
GCACTGTGGCCAGTTGTGGAATAAGCCTTTGCTAGGCGTGAACCACTGCATAGGCCACATTGAAATGGG
CCGCTCATCACTGGAGCCGTCAACCAACTGTCTTGTATGTCAGCGGAGGAAATACTCAGGTGATTTC
TACTCAGAACATCGTTACCGCATCTTTGGGAAACTATTGATATTGCTGTGGGAAATTGTTGGATCGTT
TTGCCCGGTGCTGAAGATTTCCAATGACCAAGTCCAGGCTACAACATTGAGCAGATGGCAAAGCGAGG
CAAGAAGCTAGTGGAGCTGCCATACACCGTGAAGGGGATGGACGCTCTCGTTCTCAGGGATCCTGCCTTC
ATCGAGGATGCAGCACAGCGAATGCTGGCCACGGGAGAGTGTACTCTGAAGATCTGTGTTCTCCTTAC
AGGAGACTGTGTTGCAATGCTGGTGGAGATCACAGAGCGAGCCATGGCGCACTGTGGCTCCAAAGAAGC
CCTCATCGTCGGGGGAGTTGGATGTAACGTACGGCTGCAGGAGATGATGGCAACAATGTGCCAGGAGCGG
GGAGCCCAGCTCTTTGCAACAGATGAGAGTTCTGCATTGACAATGGAGCCATGATAGCACAAGCTGGCT
GGGAGATGTTTACAGGCTGGGCACAGGACCCTCTCCAAGATTCTGGGATCACTCAGAGGTATAGGACAGA
TGAAGTAGAAGTGACGTGGAGGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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ORF Size:	1005 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:	<ol style="list-style-type: none">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_001100510.1 , NP_001093980.1
RefSeq Size:	1295 bp
RefSeq ORF:	1008 bp
Locus ID:	290028
UniProt ID:	Q9WVS2
Cytogenetics:	15p14
MW:	36.4 kDa
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]