

Product datasheet for **MG204973**

Osgep (BC002296) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Osgep (BC002296) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Osgep
Synonyms:	GCPL-1, PRSMG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204973 representing BC002296 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCGGGTGTGGGGTTTCAAGGCAGCGCCAACAAGATCGGCGTGGGCGTGGTCCGCGACGGCACGG
TGCTGGCGAACCCGCGGCGCACTTACGTCACGGCCCCGGGCACGGGATTCCTTCCAGGTGACACGGCCAG
GCACCATCGAGCTGTTATCCTAGACCTACTGCAGGAGGCGCTAGCAGAGGCAGGATTGACCTCCAAGGAC
ATTGATTGCATTGCTTTACCAAAGTCTGGCATGGGAGCCCCATTGGCTTCTGTAGCTGTTGTTGCC
GTACAGTGGCCAGTTGTGAATAAGCCTTTGCTTGGCGTGAACCACTGCATAGGCCACATTGAAATGGG
CCGTCTCATCACTGGAGCCGTTAACCCAACTGTCTGTATGTGAGCGGAGGAAATACCCAGGTGATTTCC
TACTCAGAACATCGTTATCGCATCTTTGGAGAACTATTGATATCGCCGTGGGAACTGCCTGGATCGTT
TTGCTCGGGTGTGAAGATTTCCAATGACCCCACTCCAGGCTACAACATTGAGCAGATGGCAAAGCGAGG
CAAGAAGCTAGTCGAGCTGCCATATACTGTAAAGGGGATGGATGTCTCGTTTTTCAGGGATTCTGTCTTTC
ATTGAGGATGCAGCGCAGCGAATGCTGGCCACTGGAGAGTGTACTCCTGAAGACCTGTGTTTCTCCTTAC
AGGAAACCGTGTGCAATGCTAGTGAAATCACGGAGCGAGCCATGGCACACTGTGGTCCAAGGAAGC
CCTCATCGTCGGAGGAGTTGGATGTAACCTGAGGCTGCAGGAGATGATGGGGACAATGTCCAGGAGCGG
GGAGCCCAGCTCTTTGCAACAGATGAGAGATTCTGCGTTGACAATGGAGCCATGATAGCACAAGCTGGTT
GGGAGATGTTTCAGGCTGGGCACAGGACTCCTCTCAAAGATTCTGCAATTACTCAGAGGTATAGGACAGA
TGAAGTGAAGTGACATGGAGGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204973 representing BC002296
 Red=Cloning site Green=Tags(s)

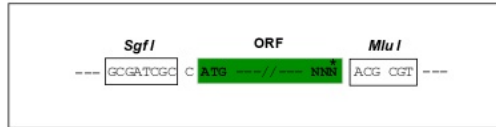
MPAVLGFEGSANKIGVGVVVDGTVLNPRRTYVTAPGTGFLPGDTRHHRVILDLLQEALAEAGLTSKD
 IDCIAFTKGPGMGAPLASVAVVARTVAQLWNKPLLGVNHCIGHIEMGRLITGAVNPTVLVYSGGNTQVIS
 YSEHRYRIFGETIDIAVGNCLDRFARVLKISNDPSPGYNIEQMAKRGKKLVLPYTVKGMVDSFSGILSF
 IEDAAQRMLATGECTPEDLCSLQETVFAMLVEITERAMAHCGSKEALIVGGVGCNLRQLQEMMGTMQER
 GAQLFATDERFCVDNGAMIAQAGWEMFQAGHRTPLKDSAITQRYRTDEVEVTWRD

TRTRPLE - GFP Tag - V

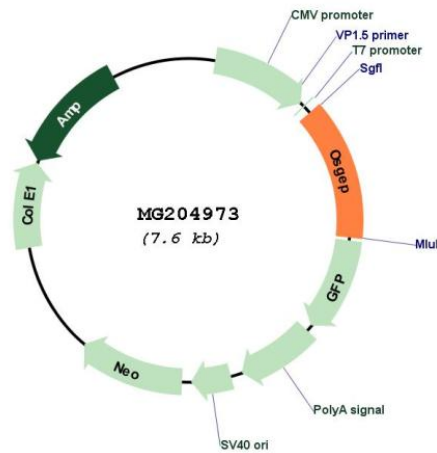
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: BC002296

ORF Size: 1007 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:	BC002296 , AAH02296
RefSeq Size:	1248 bp
RefSeq ORF:	1007 bp
Locus ID:	66246
Cytogenetics:	14 C1
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]