

Product datasheet for **RG207089**

OSGEP (NM_017807) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSGEP (NM_017807) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OSGEP
Synonyms:	GAMOS3; GCPL1; KAE1; OSGEP1; PRSMG1; TCS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207089 representing NM_017807 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGCGGTGCTGGGTTTTGAAGGCAGCGCCAATAAGATTGGCGTGGGCGTGGTGCGGGATGGCAAGG
TGCTGGCGAACCCGCGGCGGACTTACGTCACGCCCTCTGGCACAGGATTCCTCCAGGTGATACAGCCAG
GCATCACCGAGCTGTTATCCTAGACCTGCTGCAGGAGGCACTAACAGAGTCTGGATTAACCTCCCAGGAT
ATCGACTGCATTGCATACACCAAGGGCCCTGGCATGGGTGCCCACTGGTTTCTGTGGCTGTTGTGGCC
GTACTGTGGCCCAACTGTGGAATAAGCCATTGGTGGGTGTGAACCACTGTATAGGCCACATTGAGATGGG
CCGCTCATCACTGGAGCCACCAGCCCAACCGTGTGTATGTGAGTGGAGGAAATACGCAGGTGATTGCA
TACTCGGAACATCGTTACCGTATCTTTGGGAAACCATCGATATTGCAGTGGTAATTGTCTGGATCGTT
TTGCTCGAGTGCCTGAAGATTTCTAACGACCCAAGTCCAGGATACAACATTGAACAGATGGCAAAGCGAGG
CAAGAAGCTAGTTGAGCTGCCATACACTGTAAAGGGGATGGACGTCTCATTCTCAGGGATCCTGTCTTTC
ATTGAGGATGTAGCCCATCGGATGCTGGCCACAGGCGAGTGTACTCCTGAGGATCTGTGTTTCTCCCTGC
AGGAACTGTGTTTGAATGCTGGTAGAGATCACAGAGCGAGCCATGGCACATTTGGCTCCCAGGAGGC
CCTCATTGTGGGAGGAGTGGGGTGAATGTGAGGCTACAGGAGATGATGGCAACAATGTGCCAGGAACGT
GGAGCCCGGCTTTTTGCTACAGATGAGAGATTCTGTATTGACAATGGAGCGATGATAGCCAGGCTGGCT
GGGAGATGTTTCGGGCTGGACACAGGACCCCACTCAGTATTCTGGGGTTACACAGAGGTATCGGACAGA
TGAAGTAGAGGTGACCTGGAGGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG207089 representing NM_017807
Red=Cloning site Green=Tags(s)

MPAVLGFEGSANKIGVGVVVDGKVLNPRRTYVTPPGTGFLPGDTRHHRVILDLLQEALTESGLTSQD
 IDCIAATKGPGMGAPLVSVAVVARTVAQLWNKPLVGVNHCIGHIEMGRLITGATSPTVL YVSGGNTQVIA
 YSEHRYRIFGETIDIAVGNCLDRFARVLKISNDPSPGYNIEQMAKRGKKLVLPYTVKGMVSVFSGILSF
 IEDVAHRMLATGECTPEDLCFSLQETVFAMLVEITERAMAHCGSQEALIVGGVGCNVRLQEMMATMCQER
 GARLFATDERFCIDNGAMIAQAGWEMFRAGHRTPLSDSGVTQRYRTDEVEVTWRD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_017807

ORF Size: 1005 bp

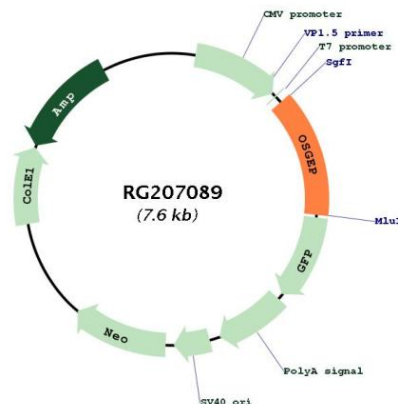
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_017807.4
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]

Product images:



Circular map for RG207089