

Product datasheet for **RG204231**

OSGEPL1 (NM_022353) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSGEPL1 (NM_022353) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	OSGEPL1
Synonyms:	OSGEPL; Qri7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204231 representing NM_022353 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTAATCTTGACTAAGACTGCAGGAGTTTTTTTTAAACCATCAAAAAGGAAAGTTTATGAATTTTTAA
GAAGTTTTAATTTTCATCCTGGAACACTATTTCTCATAAAATAGTATTGGGAATTGAACTAGTTGTGA
TGATACAGCAGCTGCTGTGGTGGATGAACTGGAAATGTGTTGGGAGAAGCAATACATCCCAAAGTAA
GTTCAATTAACAGAGTGGGATTGTTCTCCAGCAGCTCAACAGCTTACAGAGAAAATATTCAACGAA
TAGTACAAGAAGCTCTTCTGCCAGTGGAGTCTCTCCAAGTGACCTCTCAGCAATTGCACTACCATAAA
ACCAGGACTTGCTTTAAGCCTGGGAGTGGGCTTATCATTAGCTTACAGCTGGTAGGACAGTAAAAAAG
CCATTCATTCCCATTTCATCATATGGAGGCTCATGCACTTACTATTAGGTTGACCAATAAAGTAGAATTTT
CTTTTTAGTTCTTTGATTTCTGGAGGCTCACTGTCTGTTGGCATTAGTTCAAGGAGTTTCAGATTTTCT
GCTTCTTGAAAGTCTTTGGACATAGCACCAGGTGACATGCTTGACAAGGTGGCAAGAAGACTTTCTTTA
ATAAACATCCAGAGTGTCCACCATGAGTGGTGGAAAGCCATAGAACATTTGGCCAAACAAGGAAATA
GATTTCAATTTGACATCAACCTCCCTGCATCATGCTAAAAATTGTGATTTTCTTTACTGGACTTCA
ACACGTTACTGATAAAATAATAATGAAAAAGGAAAAAGGAAGTATTGAGAAGGGCAAACTCTGTCT
TCAGCAGCAGACATTGCTGCCACAGTACAGCACACAATGGCATGTCATCTGTGAAAAGAACACATCGGG
CTATTCTGTTTTGTAAGCAGAGAGACTTGTACCTCAAAATAATGCAGTACTGGTTGCATCTGGTGGTGT
CGCAAGTAACTTCTATATCCGCAGAGCTCTGAAATTTTAAACAAACGCAACACAGTGCACCTTTGTTGTG
CCTCTCCAGACTATGCACTGATAATGGCATTATGATTGCATGGAATGGTATTGAAAGACTACGTGCTG
GCTTGGGCATTTTACATGACATAGAAGGCATCCGCTATGAACCAAAATGCCTCTTGAGTAGACATATC
AAAAGAAGTTGGAGAAGCTTCCATAAAAGTACCACAATTAATAATGGAGATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG204231 representing NM_022353
 Red=Cloning site Green=Tags(s)

MLILTKTAGVFFKPSKRKYVEFLRSFNHPGTLFLHKIVLGIETSCDDTAAAVVDETGNVLGEAIIHSQTE
 VHLKTGGIVPPAAQQLHRENIQRIVQEAL SASGVSPSDL SAIATTIKPGLALSLGVLSFSLQLVGLK
 PFIPIIHMEAHALTIRL TNKVEFPFLVLLISGGHCLLALVQGVSDFLLLGKSLDIAPGMDLKDVARRLSL
 IKHPECSTMSGGKAIEHLAKQGNRFHFDIKPPLHHAKNCDFSFTGLQHVTDKIIMKKEKEEGIEKGQILS
 SAADIAATVQHTMACHLVKRTHRAILFCKQRDLLPQNNAVLVASGCVASNFYIRRALEILTNATQCTLLC
 PPRRLCTDNGIMIANGIERLRAGLGILHDIIEGIRYEPKCPLGVDISKEVGEASIKVPQLKMEI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_022353

ORF Size: 1242 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:

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_022353.2](#), [NP_071748.2](#)

RefSeq Size: 2339 bp

RefSeq ORF: 1245 bp

Locus ID: 64172

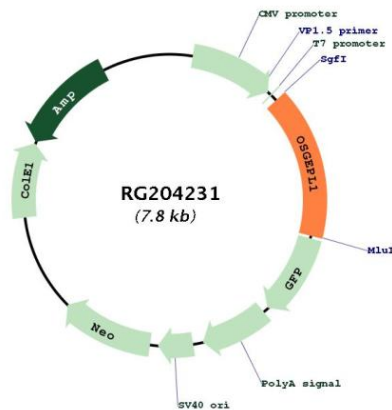
UniProt ID: [Q9H4B0](#)

Cytogenetics: 2q32.2

Protein Families: Druggable Genome, Protease

Gene Summary: Required for the formation of a threonylcarbamoyl group on adenosine at position 37 (t(6)A37) in mitochondrial tRNAs that read codons beginning with adenine. Probably involved in the transfer of the threonylcarbamoyl moiety of threonylcarbamoyl-AMP (TC-AMP) to the N6 group of A37. Involved in mitochondrial genome maintenance.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG204231