

## Product datasheet for RN213448

### Oplah (NM\_053904) Rat Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Oplah (NM_053904) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Oplah
Synonyms:	MGC105359
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN213448 representing NM_053904 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGCAGCCCAGAAGGGCGCTTCATTCGCCATCGACCGGGTGGCACCTTCACAGATGTCTTTGCC  
AGTGCCCTGGAGGCATGTGCGTGTCTGAAGTGCTCTCAGAGGACCCTGCCAATCCAGATGCACC  
CACAGAGGCATCCGCCAATCTAGAGCAGGAGGAGGGTGTGCTGCTGCCTCGAGGCCACCGCTAGC  
ACCACTGCATTGCCAGCATCCGCATGGGTACCACGGTGGCCACCAATGCACTGTTGGAACGACAGGGAG  
AACGGGTGGCACTGCTGGTACTCGGGGTTCCGAGACCTGCTGCATATTGGCACTCAGGCCCGCCGGGA  
CCTCTTTGACTTGGCTGTGCCATGCCAGAGTTCTGTATGAGGAAGTGCTGGAGGTAGATGAGCGAGTG  
GTGCTGTATCGCGGAGAACCAGGTGCCGGCTCTCCTGTCAAAGGCCGACAGGGGACCTGCTAGAGATAC  
AGCAGCCTGTGGACCTGGAAGCCCTGCGTGGGAAGCTGGAGGGGCTCTTGTCTCGGGCATTACAGTCT  
GGCAGTGGTGTGCATGCATTCGTACACGTGGGCCAGCATGAGCAGCAGGTGGGCACGCTGGCCCGGGAG  
CTGGGCTTCACGCACGTCTCCTTGTCTCGGAAGTTCATGCCATGGTACGAATTGTTCTCGGGCCATA  
CAGCCTGTGCTGACGCTTACCTTACTCCACCATCCAGCGTATGTGCAGGGCTTCGCCGAGGCTTCCA  
GGCCAGCTAAAGAATGTGCAAGTCTCTTCAATGCGCTCTGATGGTGGCCTCGCACCCATGGATGCTTTC  
AGTGGTCCCGGCTGTGCTCTCTGGCCCTGCTGGGGTGTGGTTGGCTACTCAGCTACCACCTACCATC  
TGGAAGCGGTCAGCCTGTATTGGCTTTGACATGGGAGGCACATCCACAGACGTGAGCCCTATGCTGG  
AGAATTTGAGCATGTCTTTGAGGCTAGCACAGCAGGCGTTACCCTTCAGGCACCCAGTTGGACATCAAC  
ACAGTGGCAGCTGGCGGGGTTCCCGCCTCTTCTCAGATCTGGCCTCTTGTGGTTGGTCCAGAGTCAG  
CAGGTGCCACCCAGGCTCCTGCCTGCTACCGTAAAGGGGCTCTGTGACAGTGACAGATGCTAATCTGGT  
CCTGGGTGCCTGCTGCCTGCCTCCTTCCCTGCATTTTGGGCCAGGAGAAGACCAGCCACTGTCTCCT  
GAGGCTTCCCGAAAGGCTCTAGAGGCTGTGCCATGGAGGTCAACAGTTTCTTGACCAATGGACCGTGCC  
CAGCTTCCCAACTAAGTCTGGAAGAGGTGGCCATGGGGTTTGTGCGTGTGCCAATGAAGCCATGTGCCG  
GCATATCCGTGCCCTCACACAGGCACGAGGCCATGACCCCTCAGCCCATGTATTGGCTTGTGGAGGA  
GCTGGTGGCAACACGCTTGTGCCATTGCCGGCCCTGGGGATGGATACTGTGCACATTACAGGCACA



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GCGGGCTGCTGTGCTAGCACTAGGACTGGCCTTGGCAGATGTGGTTCACGAAGCACAGGAGCCCTGTTCCCT  
 GTCTTACACACCTGAAACCTTTGCACAACCTGGACCAGAGACTGAGCCGCCTGGAGGAGCAGTGTGTGGAT  
 GCCTTGCAGGTCCAGGGCTTCCCTAGGTCTCAGATCAGCACCCAGAGCTTCTGCATCTTCGCTACCAAG  
 GCACTGACTGCGCCCTAATGGTGTCTGCCATCAGCATCCGGCCACAGCCTGCTCACCCCGAGCTGGTGA  
 CTTTGGAGCCGCATTTGTGGAGAGGTACATGAGAGAGTTGGCTTATTATCCCCGAGCGGCCGGTGGT  
 GTAGATGATACGTGTGAGGGGAAGTGGCCGTAGTGGACTTCACTTTGAAGGGGTTATCAGGAGACTCCCCTGTA  
 CTGGACCTCCCCACGTGGAAAAGGTGACCCAGTCTACTTTGAAGGGGTTATCAGGAGACTCCCCTGTA  
 CCTTTTAGGAGAACTAGGCTACGGGCACCACTCCAAGGGCCCTGCCTTATCATCGACAACAACAGCACC  
 ATCCTTGTAGAACCGGGTTGCCAAGCAGAGGTGACTGATACAGGGGACATCCGCATTTCTGTGGGAGCTG  
 AGGGTCTAGTATGGCAGATACCAGGCTTGACCCCATCCAGCTGTCTATTTTCTCACACCCTTCATGAG  
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 TTCTCCTGTGCCCTTTTGGCCAGATGGGGCCCTCGTCTCCAATGCTCCCCACATTCTGTGCACCTGG  
 GTGCCATGCAAGAGACTGTACAGTTCAGATTGAGCACTTAGGAGCCGACCTCCATCCTGGTGATGTGT  
 GCTCAGCAACCATCCCAGCGCAGGGGGCAGCCATCTTCTGACCTGACTGTCATTACACCCGTGTTTTGG  
 CCAGGCCAGACGAGGCCGTGTGTTCTACGTGGCTAGCCGAGGGCACCACGCAGACATTGGAGGAATCACAC  
 CGGGCTCTATGCCGCCTCACTCCACCACCTGCAACAGGAGGGTGCCGTTTTTCTGTCTCAAACCTGGT  
 CCAGGGAGGGCTTCCAGGAAGAGGCAGTGACAGAGGCCCTACGGGCACCAGGCAAGATCTCTGGCTGT  
 AGTGGAACCAGGAACCTGCATGACAACCTGTGGATCTTCGTGCCAGGTGGCAGCTAACAGAAAGGCA  
 TCCAGCTGGTGGGAGAGCTGATCGGACAGTATGGCTTAGATGGTGCAGGCCTATATGGCCATATTCA  
 GGCGAATGCTGAGCTAGCAGTGAAGACATGCTCCGGGCTTTTGGAACTCCCAGGAGCCAGGGGGCCTG  
 CCCCTGGAGGTGTCTGCAGAGGATCACATGGATGATGGCTCTCCCATCTGTCTGCGTGTTCAGATCAACC  
 TGAGTCAGGGCAGTCCGGTATTTGACTTTACTGGTTCGGGTCTGAGGTGTTGGCAATCTCAATGCCCC  
 GAGAGCCATAAACAACCTGTCTGCTCATCTATTGCTTACGCTGTCTAGTGGGCCGTGACATCCCCTAAC  
 CAGGGTTGCCTGGCTCCTGTGCGTGTATAATTCCCAAAGGCTCCATATTGGATCCATCCCCAGAGGCAG  
 CAGTGGTTCGGCGCAACGTGCTCACATCTCAGCGAGTAGTGGATGTCATTCTGGGGGCTTTTGGGCCTG  
 TTCAGCCTCCCAGGGCTGCATGAACAATGTGACCTGGGCAATGCCCGTATGGGCTACTATGAGACAGTG  
 GCTGGTGGTGCCGGTGGGGCCCTGGCTGGCATGGGCGCAGTGGTGTACACAGTACATGACCAACACAC  
 GCATTACGGATCCAGAGATTCTGGAGAGTCGGTATCCAGTTATCCTGCGCCGCTTTGAGCTGAGGCCAGG  
 CTCGGGGGCGGAGTCCGCTTCCGGGGAGGTGATGGCGTAGTCCGAGAGCTGGTCTTTGGGAAGAGGGC  
 CTGTTGTCTGTGCTCACCAGCGCCGGCCTTCCAGCCTTACGGCCTCCACGGGGGAGAGCTGGTGGC  
 GTGGCTTAAACCTCCTGATCAGAAAAGATGGGCGCACAGTGAATTTGGGCGCAAGACATCTGTGACCGT  
 GTACCCCGGGGAGCTGTTCTGCCTCCACACGCCTGGGGGTGGGGGCTACGGAGACCCGGAGGATCCAGCG  
 CCACCACCAGGCTCGCCCCGCTATTTCCAGCCTTCCCCGAGCGCGCAGTGTATTTCGAGTACCCGCCG  
 CCCAGGAAGCCGTATGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:**

Sgfl-Mlul

**ACCN:**

NM\_053904

**Insert Size:**

3867 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\\_053904.1](#), [NP\\_446356.1](#)

**RefSeq Size:** 4003 bp

**RefSeq ORF:** 3867 bp

**Locus ID:** 116684

**UniProt ID:** [P97608](#)

**Cytogenetics:** 7q34

**Gene Summary:** catalyzes cleavage of 5-oxo-L-proline to form L-glutamate and is coupled to the hydrolysis of ATP to ADP and inorganic phosphate [RGD, Feb 2006]