OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RR213448

Oplah (NM_053904) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Oplah (NM_053904) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Oplah
Synonyms:	MGC105359
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213448 representing NM_053904 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGGCAGCCCAGAAGGGCGCTTCCATTTCGCCATCGACCGCGGTGGCACCTTCACAGATGTCTTTGCCC AGTGCCCTGGAGGGCATGTGCGTGTCCTGAAGCTGCTCTCAGAGGACCCTGCCAACTATCCAGATGCACC CACAGAGGGCATCCGCCGAATTCTAGAGCAGGAGGAGGGTGTGCTGCTGCCTCGAGGCCGACCGCTAGAC ACCAGTCGCATTGCCAGCATCCGCATGGGTACCACGGTGGCCACCAATGCACTGTTGGAACGACAGGGAG AACGGGTGGCACTGCTGGTGACTCGGGGTTTCCGAGACCTGCTGCATATTGGCACTCAGGCCCGCCCGGA CCTCTTTGACTTGGCTGTGCCCATGCCAGAGGTTCTGTATGAGGAAGTGCTGGAGGTAGATGAGCGAGTG GTGCTGTATCGCGGAGAACCAGGTGCCGGCTCTCCTGTCAAAGGCCGCACAGGGGACCTGCTAGAGATAC AGCAGCCTGTGGACCTGGAAGCCCTGCGTGGGAAGCTGGAGGGGCTCTTGTCTCGGGGCATTCACAGTCT GGCAGTGGTGCTCATGCATTCGTACACGTGGGCCCAGCATGAGCAGCAGGTGGGCACGCTGGCCCGGGAG CTGGGCTTCACGCACGTCTCCTTGTCCTCGGAAGTCATGCCCATGGTACGAATTGTTCCTCGGGGCCATA CAGCCTGTGCTGACGCTTACCTTACTCCCACCATCCAGCGCTATGTGCAGGGCTTCCGCCGAGGCTTCCA GGGCCAGCTAAAGAATGTGCAAGTTCTCTTCATGCGCTCTGATGGTGGCCTCGCACCCATGGATGCTTTC AGTGGTTCCCGGGCTGTGCTCTCTGGCCCTGCTGGGGGTGTGGTTGGCTACTCAGCTACCACCTACCATC TGGAAGGCGGTCAGCCTGTCATTGGCTTTGACATGGGAGGCACATCCACAGACGTGAGCCGCTATGCTGG AGAATTTGAGCATGTCTTTGAGGCTAGCACAGCAGGCGTTACCCTTCAGGCACCCCAGTTGGACATCAAC ACAGTGGCAGCTGGCGGGGGTTCCCGCCTCTTCTTCAGATCTGGCCTCTTTGTGGTTGGTCCAGAGTCAG CAGGTGCCCACCCAGGTCCTGCCTGCTACCGTAAAGGGGGTCCTGTGACAGTGACAGATGCTAATCTGGT CCTGGGTCGCCTGCTGCCTGCCTCCTTCCCCTGCATTTTTGGGCCAGGAGAAGACCAGCCACTGTCTCCT GAGGCTTCCCGAAAGGCTCTAGAGGCTGTGGCCATGGAGGTCAACAGTTTCTTGACCAATGGACCGTGCC CAGCTTCCCAACTAAGTCTGGAAGAGGTGGCCATGGGGTTTGTGCGTGTTGCCAATGAAGCCATGTGCCG GCCTATCCGTGCCCTCACACAGGCACGAGGCCATGACCCCTCAGCCCATGTATTGGCTTGCTTTGGAGGA GCTGGTGGGCAACACGCTTGTGCCATTGCCCGGGCCCTGGGGATGGATACTGTGCACATTCACAGGCACA

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Protein Sequence:

>RR213448 representing NM_053904
Red=Cloning site Green=Tags(s)

MGSPEGRFHFAIDRGGTFTDVFAQCPGGHVRVLKLLSEDPANYPDAPTEGIRRILEQEEGVLLPRGRPLD
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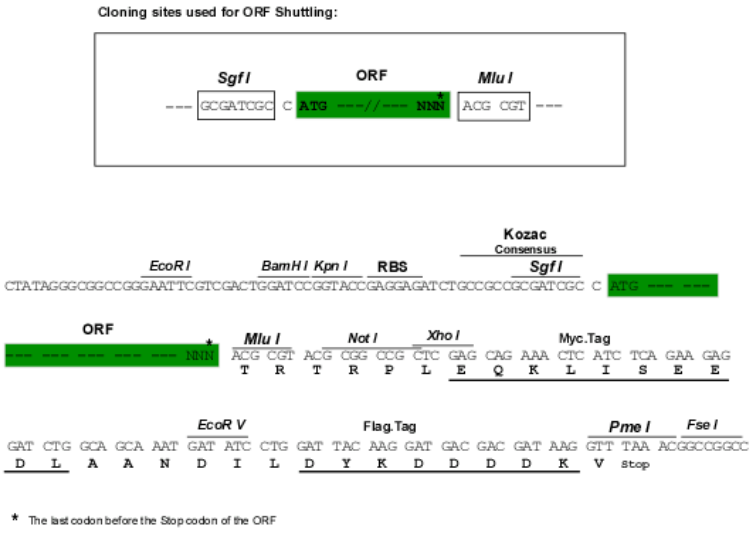
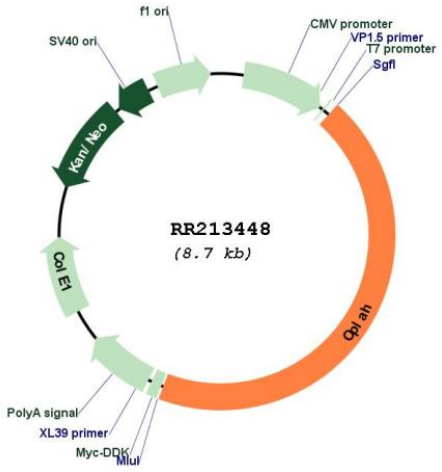
Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_053904
ORF Size:	3864 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_053904.1, NP_446356.1
RefSeq Size:	4003 bp
RefSeq ORF:	3867 bp
Locus ID:	116684
UniProt ID:	P97608
Cytogenetics:	7q34

MW:	137.7 kDa
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]