

# Product datasheet for RC205431

## UCMA (NM\_145314) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

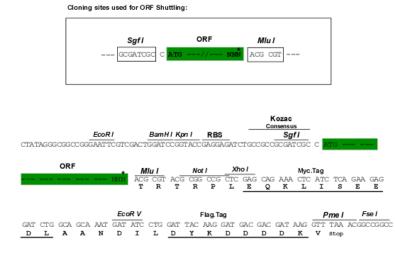
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	UCMA (NM_145314) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UCMA
Synonyms:	C10orf49; GRP; GRP/UCMA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC205431 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGACTTGGAGACAGGCCGTCCTGCTGTCTTGCTTCTCCGCCGTGGTGCTCCTGTCTATGCTGAGAGAGG GAACCAGTGTATCTGTGGGCACCATGCAGATGGCGGGGAGAAGAGGCGAGTGAAGATGCAAAACAGAAGAT TTTCATGCAGGAATCAGATGCCTCGAATTTCCTCAAGAGGCGCGGCAAGCGGTCCCCCAAGTCCCGAGAT GAGGTCAATGTGGAAAACAGGCAGAAGCTTCGGGTTGATGAGCTGCGGAGAGAATATTACGAGGGAACAAA GGAATGAATTTGAGAACTTCGTGGAGGAACAAAACGATGAGCAGGAAGAGAGAG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG <b>GTTTAA</b>
Protein Sequence:	<pre>&gt;RC205431 protein sequence Red=Cloning site Green=Tags(s)</pre>
	MTWRQAVLLSCFSAVVLLSMLREGTSVSVGTMQMAGEEASEDAKQKIFMQESDASNFLKRRGKRSPKSRD EVNVENRQKLRVDELRREYYEEQRNEFENFVEEQNDEQEERSREAVEQWRQWHYDGLHPSYLYNRHHT
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6240_d09.zip
<b>Restriction Sites:</b>	Sgfl-Mlul



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### **Cloning Scheme:**



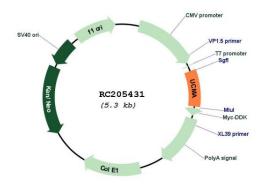
\* The last codon before the Stop codon of the ORF

ACCN:	NM_145314
ORF Size:	414 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. <u>More info</u>
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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	<u>NM 145314.1, NP 660357.2</u>
RefSeq Size:	840 bp
RefSeq ORF:	417 bp
Locus ID:	221044
UniProt ID:	Q8WVF2

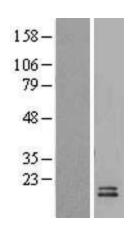
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	UCMA (NM_145314) Human Tagged ORF Clone – RC205431
Cytogenetics:	10p13
Protein Families:	Secreted Protein
MW:	16.6 kDa
Gene Summary:	This gene encodes a chondrocyte-specific, highly charged protein that is abundantly expressed in the upper immature zone of fetal and juvenile epiphyseal cartilage. The encoded protein undergoes proteolytic processing to generate a mature protein that is secreted into the extracellular matrix. The glutamic acid residues in the encoded protein undergo gamma carboxylation in a vitamin K-dependent manner. Undercarboxylation of the encoded protein is associated with osteoarthritis in humans. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2015]

### **Product images:**



Circular map for RC205431



Western blot validation of overexpression lysate (Cat# [LY407961]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205431 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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