

# **Product datasheet for RC235523**

# UCMA (NM 001303119) Human Tagged ORF Clone

**Product data:** 

**Product Type: Expression Plasmids** 

**Product Name:** UCMA (NM\_001303119) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: **UCMA** 

Synonyms: C10orf49; GRP; GRP/UCMA

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

**Cell Selection:** Neomycin

>RC235523 representing NM\_001303119 **ORF Nucleotide** Red=Cloning site Blue=ORF Green=Tags(s) Sequence:

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACTTGGAGACAGGCCGTCCTGCTGTCTTGCTTCTCCGCCGTGGTGCTCCTGTCTATGGAAAACAGGC GGAGGAACAAAACGATGAGCAGGAAGAGAGGCCGGGAGGCTGTGGAGCAGTGGCGCCAGTGGCACTAT

GACGGCCTGCACCCATCCTATCTCTACAACCGCCACCACACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

>RC235523 representing NM\_001303119 **Protein Sequence:** 

Red=Cloning site Green=Tags(s)

MTWRQAVLLSCFSAVVLLSMENRQKLRVDELRREYYEEQRNEFENFVEEQNDEQEERSREAVEQWRQWHY

DGLHPSYLYNRHHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-Mlul



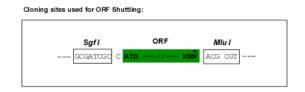
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

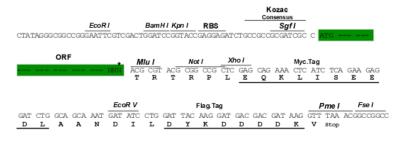
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



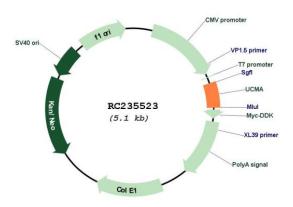
#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

## Plasmid Map:



**ACCN:** NM\_001303119

ORF Size: 252 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



### UCMA (NM\_001303119) Human Tagged ORF Clone - RC235523

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:** <u>NM 001303119.2</u>

RefSeq Size: 662 bp
RefSeq ORF: 255 bp
Locus ID: 221044
UniProt ID: Q8WVF2
Cytogenetics: 10p13

**Protein Families:** Secreted Protein

**MW:** 11 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]