

Product datasheet for **RC235654**

UCMA (NM_001303118) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UCMA (NM_001303118) 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
ORF Nucleotide Sequence: >RC235654 representing NM_001303118
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACTTGGAGACAGGCCGTCCTGCTGTCTTGCTTCTCCGCCGTGGTCTCCTGTCTATGCTGAGAGAGG
GAACCACTGTATCTGTGGCACCATGCAGATGGCGGGAGAAGAGCGAGTGAAGTGGAAAACAGGCAGAA
GCTTCGGGTTGATGAGCTGCGGAGAGAATATTACGAGGAACAAAGGAATGAATTTGAGAACTTCGTGGAG
GAACAAAACGATGAGCAGGAAGAGAGGACCCGGGAGGCTGTGGAGCAGTGGCCAGTGGCACTATGACG
GCCTGCACCCATCCTATCTCTACAACCGCCACCACACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235654 representing NM_001303118
Red=Cloning site Green=Tags(s)

MTWRQAVLLSCFSAVVLLSMLREGTSVSVGTMQMAGEEASEVENRQKLRVDELRRREYEEQRNEFENFVE
EQNDEQEERSREAVEQWRQWHYDGLHPSYLYNRHHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

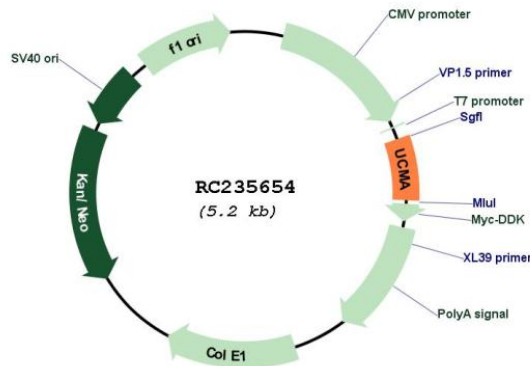


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Cloning Scheme:



Plasmid Map:



ACCN:

NM_001303118

ORF Size:

318 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:	<ol style="list-style-type: none">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_001303118.2</u>
RefSeq Size:	728 bp
RefSeq ORF:	321 bp
Locus ID:	221044
UniProt ID:	<u>Q8WVF2</u>
Cytogenetics:	10p13
Protein Families:	Secreted Protein
MW:	13.3 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]