

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
ORF Nucleotide Sequence: >RC235523 representing NM_001303119
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGACTTGGAGACAGGCCGCTCTGCTGTCTTCTCCGCCGTGGTCTCTGTCTATGGAAAACAGGC
AGAAGCTTCGGTTGATGAGCTGCGGAGAGAATATTACGAGGAACAAAGGAATGAATTTGAGAACTTCGT
GGAGGAACAAAACGATGAGCAGGAAGAGAGAGCCGGGAGGCTGTGGAGCAGTGGCGCCAGTGGCACTAT
GACGGCCTGCACCCATCCTATCTCTACAACCGCCACCACACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235523 representing NM_001303119
Red=Cloning site Green=Tags(s)

MTWRQAVLLSCFSAVVLLSMENRQKLRVDELRRYYEEQRNEFENFVEEQNDEQEERSREAVEQWRQWHY
DGLHPSYLYNRHHT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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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:	NM_001303119.2
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]