

Product datasheet for **MC210738**

Ucma (NM_001165932) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ucma (NM_001165932) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ucma
Synonyms:	1110017I16Rik; AW121955; Grp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210738 representing NM_001165932 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCTGGAGACGGGTCACTCTCCTGTCATCTCTTGGCCCTGGTGCTCCTGTGTATGCTACAGGAGG
GGACCAGCGCTTCTGTGGGGAGCAGGCAGGCAGCTGCAGAGGGGTGCAGGAAGGTGTGAAACAGAAGAT
TTTCATGCAAGAATCTGATGCCTCCAATTTCTCAAGAGCGTGGCAAGCGGTCTCCTAAGTCCCGAGAT
GAAGTTAATGAGCAGGAAGAGAGGACCCGGGAGGCTGTGGAGCAGTGGCGCCAGTGGCATTATGATGGCC
TGTATCCTTCTACCTCTACAACCGCCAAAACATC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001165932
Insert Size:	318 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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).



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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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001165932.1](#), [NP_001159404.1](#)

RefSeq Size: 785 bp

RefSeq ORF: 318 bp

Locus ID: 68527

UniProt ID: [Q14BU0](#)

Cytogenetics: 2 A1

Gene Summary: This gene encodes chondrocyte-specific, highly charged proteins that are abundantly expressed during the early stages of chondrogenesis. 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. Despite the implied role in calcification and ossification, mice lacking the encoded protein do not display significant defects in the skeletal development. Alternative splicing results in multiple transcript variants encoding different isoforms that may undergo a similar proteolytic processing to generate mature proteins. [provided by RefSeq, Aug 2015]

Transcript Variant: This variant (3, also known as Ucma/GRP-F3) contains an alternate in-frame exon in the 5' coding region and lacks an in-frame exon in the 3' coding region, compared to variant 1. The encoded isoform (c) is shorter than isoform a. This isoform (c) may undergo proteolytic processing similar to isoform b.