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Product datasheet for MR219966

Ucma (NM_001165932) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ucma (NM_001165932) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ucma
Synonyms:	1110017I16Rik; AW121955; Grp
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR219966 representing NM_001165932 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCCTGGAGACGGGTCATTCTCCTGTCATCTCTCTTGGCCCTGGTGCTCCTGTGTATGCTACAGGAGG GGACCAGCGCTTCTGTGGGGAGCAGGCAGGCAGCTGCAGAGGGGGTGCAGGAAGGTGTGAAACAGAAGAT TTTCATGCAAGAATCTGATGCCTCCAATTTCCTCAAGAGGCGTGGCAAGCGGTCTCCTAAGTCCCGAGAT GAAGTTAATGAGCAGGAAGAGAGGACCCGGGAGGCTGTGGAGCAGTGGCGCCAGTGGCATTATGATGGCC TGTATCCTTCCTACCTCTACAACCGCCAAAACATC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR219966 representing NM_001165932 Red=Cloning site Green=Tags(s) MSWRRVILLSSLLALVLLCMLQEGTSASVGSRQAAAEGVQEGVKQKIFMQESDASNFLKRRGKRSPKSRD EVNEQEERTREAVEQWRQWHYDGLYPSYLYNRQNI TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	SgfI-MluI

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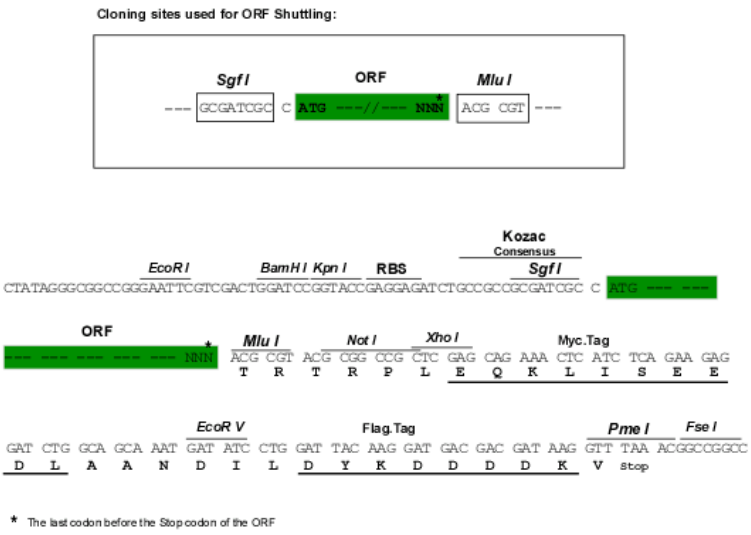
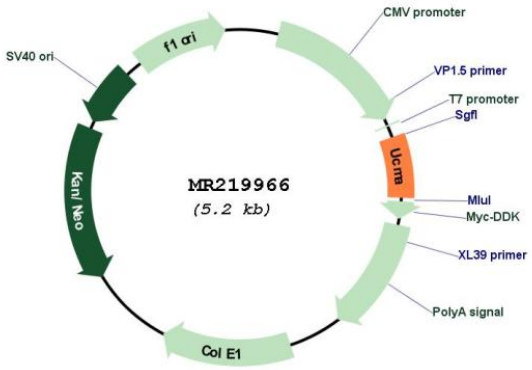
Cloning Scheme:



Plasmid Map:



ACCN: NM_001165932

ORF Size: 315 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:	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_001165932.1, NP_001159404.1
RefSeq Size:	785 bp
RefSeq ORF:	318 bp
Locus ID:	68527
UniProt ID:	Q14BU0
Cytogenetics:	2 A1
MW:	12.7 kDa
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]