

Product datasheet for **RG235654**

UCMA (NM_001303118) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: UCMA (NM_001303118) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: UCMA
Synonyms: C10orf49; GRP; GRP/UCMA
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235654 representing NM_001303118.
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTTGAGACAGGCCGCTCTGCTGTCTTGCTTCTCCGCGTGGTGTCTCTATGCTGAGAGAG
GGAACAGTGTATCTGTGGCACCATGCAGATGGCGGGAAGAGGCGAGTGAAGTGAAAAACAGGCAG
AAGCTTCGGTTGATGAGCTGCGGAGAGAATATTACGAGGAACAAAGGAATGAATTTGAACTTCGTG
GAGGAACAAAACGATGAGCAGGAAGAGAGGAGCCGGGAGGCTGTGGAGCAGTGGCCAGTGGCACTAT
GACGGCTGCACCCATCCTATCTCTACAACCGCCACCACACC
ACGCGTACGCGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235654
Blue=ORF Red=Cloning site Green=Tag(s)

```
MTWRQAVLLSCFSAVVLLSMLREGTSVSVGTMQMAGEEASEVENRQKLRVDELRRYYEEQRNEFENFV
EEQNDEQEERSREAVEQWRQWHYDGLHPSYLYNRHHT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: SgfI-MluI



Cloning Scheme:


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).

RefSeq: [NM_001303118.2](#)

RefSeq Size: 728 bp

RefSeq ORF: 321 bp

Locus ID: 221044

UniProt ID: [Q8WVF2](#)

Cytogenetics: 10p13

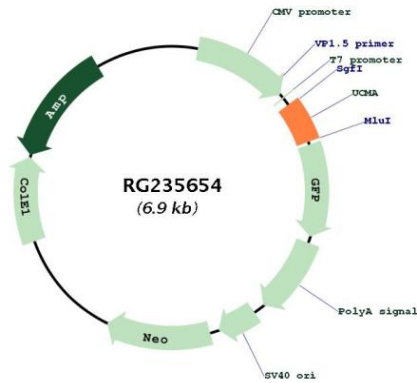
Protein Families: Secreted Protein

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]

Product images:



Circular map for RG235654