# Recombinant Full Length Human UCMA Protein, GST-tagged

**Cat. No.** UCMA-1700HF **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Human C10orf49 full-length ORF (AAH18068.2, 1 a.a. - 138 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Species** | Human |
| **Source** | In Vitro Cell Free System |
| **ProteinLength** | 138 amino acids |
| **Description** | 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. |
| **Form** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| **Molecular Mass** | 41.58 kDa |
| **AA Sequence** | MTWRQAVLLSCFSAVVLLSMLREGTSVSVGTMQMAGEEASEDAKQKIFMQESDAS NFLKRRGKRSPKSRDEVNVENRQKLRVDELRREYYEEQRNEFENFVEEQNDEQEE RSREAVEQWRQWHYDGLHPSYLYNRHHT |

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| **Storage** | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| **Storage Buffer** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

## GENE INFORMATION

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| **Gene Name** | UCMA upper zone of growth plate and cartilage matrix associated [ Homo sapiens ] |
| **Official Symbol** | UCMA |
| **Synonyms** | UCMA; upper zone of growth plate and cartilage matrix associated; C10orf49, chromosome 10 open reading frame 49; unique cartilage matrix-associated protein; Gla-rich protein; GRP; C10orf49 |
| **Gene ID** | 221044 |
| **mRNA Refseq** | NM_145314 |
| **Protein Refseq** | NP_660357 |
| **UniProt ID** | Q8WVF2 |

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