Collagen Alpha-2 (XI) Chain (COL11A2) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Collagen alpha-2 (XI) chain (Col11a2), Recombinant Protein
Full Product Name	Recombinant Mouse Collagen alpha-2 (XI) chain (Col11a2) , partial
Product Gene Name	Col11a2 recombinant protein
Product Synonym Gene Name	Col11a2
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	162,072 Da
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q64739
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Col11a2 recombinant protein	This gene encodes one of the two alpha chains of type XI collagen, a minor fibrillar collagen. It is located on chromosome 6 very close to but separate from the gene for retinoid X receptor beta. Type XI collagen is a heterotrimer but the third alpha chain is a post-translationally modified alpha 1 type II chain. Proteolytic processing of this type XI chain produces PARP, a proline arginine-rich protein that is an amino terminal domain. Mutations in this gene are associated with type III Stickler syndrome, otospondylomegaepiphyseal dysplasia (OSMED syndrome), Weissenbacher-Zweymuller syndrome, autosomal dominant non-syndromic sensorineural type 13 deafness (DFNA13), and autosomal recessive non-syndromic sensorineural type 53 deafness (DFNB53). Alternative splicing results in multiple transcript variants. A related pseudogene is located nearby on chromosome 6.
Other Notes	Small volumes of Col11a2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for Col11a2 purchase	MBS1376545 is a recombinant protein targeting Col11a2. Also known as Recombinant Mouse Collagen alpha-2 (XI) chain (Col11a2) , partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Col11a2. It may not necessarily be applicable to this product.

NCBI GI #	959241449
NCBI GeneID	12815
NCBI Accession #	NP_001304651.1

UniProt Primary Accession #	Q64739
UniProt Secondary Accession #	Q61432; Q9Z1W0
UniProt Related Accession #	Q64739
GenBank Nucleotide #	NM_001317722.1
NCBI Official Full Name	collagen alpha-2(XI) chain isoform 1
NCBI Official Synonym Full Names	collagen, type XI, alpha 2
NCBI Official Symbol	Col11a2
UniProt Protein Name	Collagen alpha-2(XI) chain
Protein Family	Collagen
UniProt Gene Name	Col11a2
NCBI Protein Information	collagen alpha-2(XI) chain
NCBI Summary for Col11a2	This gene encodes the alpha-2 subunit of type XI collagen, one of the low abundance fibrillar collagens found in cartilage. The encoded protein, in association with other collagen subunits, forms a heterotrimeric type XI procollagen that may undergo proteolytic processing similar to the alpha-1 subunit. Mice lacking the encoded protein exhibit a mild phenotype similar to nonocular Stickler syndrome, otospondylomegaepiphyseal dysplasia (OSMED) as well as a nonsyndromic form of deafness called DFNA13. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2015]
UniProt Comments for Col11a2	May play an important role in fibrillogenesis by controlling lateral growth of collagen II fibrils.
Research Articles on Col11a2	**1.** The expression patterns suggest essential roles for Col11a1 and Col11a2 in the basilar or tectorial membranes.
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