

Product datasheet for SC122238

Collagen IX (COL9A1) (BC015409) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Collagen IX (COL9A1) (BC015409) Human Untagged Clone
Tag:	Tag Free
Symbol:	Collagen IX
Synonyms:	alpha-1(IX) collagen chain; alpha 1 type IX collagen; cartilage-specific short collagen; collagen, type IX, alpha 1; collagen IX, alpha-1 polypeptide; DJ149L1.1.2; EDM6; FLJ40263; MED
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC015409 edited

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CCCTCACCGGGGCAGGAGGGACCAAGGCTGGGCCAGAACACATAGTCCTAGGGTAACA
GTGAAGGGGTCGTGAGGGGACAGTGACTCCCTTCCAACCCCTTTCATAGGGACTGTTG
GCAAACAAGAAAATCAACTGGGAAAATGAAGACCTGCTGGAAAATCCAGTTTTCTTCT
TTGTGTGCAGTTTCCCTGGAACCCCTGGGCATCTGCAGCTGTCAAAGCGTCGCCCCAGATTC
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CTGTTGATTTTCATACAAGGGACTGGATGGAAGTCTCCAAACAGCAGCCTTTTCGAATT
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TTGACATTGATGGCTTGTCTGTGCTGGGAAAATTCAGATAATCCTCAAGTTTTCTGTTC
CATTTGAACCTCAATGGATGCTGATCCATTGTGACCCCTGCGGCCAGGAGAGAAAATTC
GCCATGAGCTGCCAGCCAGAATAACGCCAGCCAGACCACCGACGAGAGAGGTCCCCCGG
GTGAGCAGGGTCTCCCGGGCTCCGGGCCCCCTGGAGTTCAGGCATCGATGGCATCG
ACGGTGACCGAGGTCTAAGGGCCCCCGGGCCCCCGGGTCTCAGGTGAACCGGGAA
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CCTGGAATATGAAGTGAAGTAAGAAATGGCGTCTGTTCTTAGCATACCATGGTGCATCAC
TCAAGTTACTCTCAAGTTACCACCTTTATGTGTTTTCCAAAAGTAAAGACTTTTTCTAAA
TGAAAAGAAAGCACTCGAAAACCTATAATTATGATTTCCAAAGATTTTTGACTACAGTTTA
AGACATATCCTTCATTTTAAAAGAAAAATAAATAACTGGATTTTTACTGTAAAAA
AAAAAA

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5' Read Nucleotide Sequence:	>OriGene 5' read for BC015409 unedited CCCCGATTAGGATTAGNANAACCACTTTATATAGGCGGCACGCGATTCCCGGGATATCGT CGACCCACGCGTCCGCCCTCACCAGGGGCGAGGAGGACCAAGGCTGGGCCAGAACACAT AGTCTAGGGTAACAGTGAAGGGGTCGTGAGGGGACAGTGACTCCCTTCCAACCCCTTCT TCATAGGGACTGTTGGCAAACAAGAAAATCAACTGGGAAAATGAAGACCTGTGGAAAA TTCCAGTTTTCTCTTTGTGTGCAGTTTCTGGAACCTGGGCATCTGCAGCTGTCAAGC GTCGCCCCAGATTCCCTGTCAATTCCAATTCTAATGGTGGAAAATGAACTGTGCCAAAGA TCAGGATTGGCCAAGATGACTTACCAGGGTTTGATCTGATCTCTCAGTTCCAGGTAGATA AAGCAGCATCTAGAAGAGCTATCCAGAGAGTAGTGGGATCAGCTACATTGCAGGTGGCTT ACAAGTTGGGAAATAATGTAGACTTCAGGATTCCAAGTATTTATATCCCAGTGGAC TGCCTGAAGAATACTCTTCTTGACGACGTTTCGAATGACTGGAAGCACTCTCAAAAAGA ACTGGAACATTTGGCAGATTGAGGATTCTCTGGGAAGGAGCAAGTTGGCATAAAGATTA ATGGCCAAACACAATCTGTTGTATTTTCATAACAAGGACTGGATGGAAGTCTCCAACAG CAGCCTTTTCGAATTTGCCTCCTTGTGTTGATTCCCAGTGGCATAAGATCATGATTGGCG TGGAGAGGAGTAGTGCTACTCTTTTGTGACTGCAACAGGATTGAATCTTTACCTATNA AGCCAAGAGGCCCAATTGACATTGATGGGCTTGCTGTGCTGGGAAAACCTGCAGANATCC TCAA
Restriction Sites:	Please inquire
ACCN:	BC015409
Insert Size:	1387 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).
Reconstitution Method:	<ol style="list-style-type: none">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:	<u>BC015409.1</u> , <u>AAH15409.1</u>
RefSeq Size:	1387 bp
Locus ID:	1297
Cytogenetics:	6q13
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes one of the three alpha chains of type IX collagen, which is a minor (5-20%) collagen component of hyaline cartilage. Type IX collagen is usually found in tissues containing type II collagen, a fibrillar collagen. Studies in knockout mice have shown that synthesis of the alpha 1 chain is essential for assembly of type IX collagen molecules, a heterotrimeric molecule, and that lack of type IX collagen is associated with early onset osteoarthritis. Mutations in this gene are associated with osteoarthritis in humans, with multiple epiphyseal dysplasia, 6, a form of chondrodysplasia, and with Stickler syndrome, a disease characterized by ophthalmic, orofacial, articular, and auditory defects. Two transcript variants that encode different isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]