AHSG cDNA Clone – Alpha-2-Hs-Glycoprotein (Human)

PRODUCT OVERVIEW

Product Name	AHSG, cDNA Clone
Full Product Name	AHSG cDNA Clone
Product Gene Name	AHSG cdna clone
Sequence	atgaagtccc tcgtcctgct cctttgtctt gctcagctgt ggggctgcca ctcagcccca catggcccag ggctgattta tagacaaccg aactgcgatg atccagaaac tgaggaagca gctctggtgg ctatagacta catcaatcaa aaccttcctt ggggatacaa acacaccttg aaccagattg atgaagtaaa ggtgtggcct cagcagccct ccggagagct gtttgagatt gaaatagaca ccctggaaac cacctgccat gtgctggacc ccacccctgt ggcaagatgc agcgtgaggc agctgaagga gcatgctgtc gaaggagact gtgatttcca gctgttgaaa ctagatggca agttttccgt ggtatacgca aaatgtgatt ccagtccaga ctcagccgag gacgtgcgca aggtgtgcca agactgcccc ctgctggccc cgctgaacga caccagggtg gtgcacgccg cgaaagctgc cctggccgcc ttcaacgctc agaacaacgg ctccaatttt cagctggagg aaatttcccg ggctcagctt gtgcccctcc caccttctac ctatgtggag tttacagtgt ctggcactga ctgtgttgct aaagaggcca cagaggcagc caagtgtaac ctgctggcag aaaagcaata tggcttttgt aaggcaacac tcagtgagaa gcttggtggg gcagaggttg cagtgacctg cacggtgttc caaacacagc ccgtgacctc acagccccaa ccagaaggtg ccaatgaagc agtccccacc cccgtggtgg acccagatgc acctccgtcc cctccacttg gcgcacctgg actccctcca gctggctcac ccccagactc ccatgtgtta ctggcagctc ctccaggaca ccagttgcac cgggcgcact acgacctgcg ccacaccttc atgggtgtgg tctcattggg gtcaccctca ggagaagtgt cgcacccccg gaaaacacgc acagtggtgc agcctagtgt tggtgctgct gctgggccag tggttcctcc atgtccgggg aggatcagac acttcaaggt ctag
Molecular Weight	39,325 Da
OMIM	138680
Vector	pENTR223.1
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for AHSG cdna clone	MBS1276013 is a cDNA clone targeting AHSG.
Other Notes	Small volumes of AHSG cdna clone 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.

ADDITIONAL DETAILS

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

NCBI GI #	30851644
NCBI GeneID	197
NCBI Accession #	BC052590
UniProt Secondary Accession #	O14961; O14962; Q9P152; A8K9N6; B2R7G1
UniProt Related Accession #	P02765; AAB29984
NCBI Official Full Name	Homo sapiens alpha-2-HS-glycoprotein, mRNA
NCBI Official Synonym Full Names	alpha 2-HS glycoprotein
NCBI Official Symbol	AHSG
NCBI Official Synonym Symbols	AHS; A2HS; HSGA; FETUA
UniProt Protein Name	Alpha-2-HS-glycoprotein

UniProt Synonym Protein Names	Alpha-2-Z-globulin; Ba-alpha-2-glycoprotein; Fetuin-A
Protein Family	Alpha-2-HS-glycoprotein
UniProt Gene Name	AHSG
UniProt Synonym Gene Names	FETUA
UniProt Entry Name	FETUA_HUMAN
NCBI Protein Information	alpha-2-HS-glycoprotein
NCBI Summary for AHSG	Alpha2-HS glycoprotein (AHSG), a glycoprotein present in the serum, is synthesized by hepatocytes. The AHSG molecule consists of two polypeptide chains, which are both cleaved from a proprotein encoded from a single mRNA. It is involved in several functions, such as endocytosis, brain development and the formation of bone tissue. The protein is commonly present in the cortical plate of the immature cerebral cortex and bone marrow hemopoietic matrix, and it has therefore been postulated that it participates in the development of the tissues. However, its exact significance is still obscure. [provided by RefSeq, Jul 2008]
UniProt Comments for AHSG	FETUA: Promotes endocytosis, possesses opsonic properties and influences the mineral phase of bone. Shows affinity for calcium and barium ions. Alpha-2-HS glycoprotein derives from this precursor, when the connecting peptide is cleaved off. The two chains A and B are held together by a single disulfide bond. Synthesized in liver and selectively concentrated in bone matrix. Secreted in plasma. It is also found in dentin in much higher quantities than other plasma proteins. Belongs to the fetuin family. Protein type: Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 3q27 Cellular Component: extracellular matrix; extracellular region; extracellular space Molecular Function: endopeptidase inhibitor activity Biological Process: acute-phase response; negative regulation of bone mineralization; platelet degranulation; positive regulation of phagocytosis; regulation of inflammatory response
Research Articles on AHSG	**1.** Data suggest that serum fetuin-A (FETUA/AHSG) concentrations are signi fi cantly positively associated with serum VEGFA (vascular endothelial growth factor A) levels in patients with newly diagnosed type 2 diabetes.
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