ASTL cDNA Clone – Astacin-Like Metallo-Endopeptidase (M12 Family) (Human)

PRODUCT OVERVIEW

Product Name	ASTL, cDNA Clone
Full Product Name	ASTL cDNA Clone
Product Gene Name	ASTL cdna clone
Sequence	ATGGAGGGTG TAGGGGGTCT CTGGCCTTGG GTGCTGGGTC TGCTCTCCTT GCCAGGTGTG ATCCTAGGAG CGCCCCTGGC CTCCAGCTGC GCAGGAGCCT GTGGTACCAG CTTCCCAGAT GGCCTCACCC CTGAGGGAAC CCAGGCCTCC GGGGACAAGG ACATTCCTGC AATTAACCAA GGGCTCATCC TGGAAGAAAC CCCAGAGAGC AGCTTCCTCA TCGAGGGGGA CATCATCCGG CCGAGTCCCT TCCGACTGCT GTCAGCAACC AGCAACAAAT GGCCCATGGG TGGTAGTGGT GTCGTGGAGG TCCCCTTCCT GCTCTCCAGC AAGTACGATG AGCCCAGCCG CCAGGTCATC CTGGAGGCTC TTGCGGAGTT TGAACGTTCC ACGTGCATCA GGTTTGTCAC CTATCAGGAC CAGAGAGACT TCATTTCCAT CATCCCCATG TATGGGTGCT TCTCGAGTGT GGGGCGCAGT GGAGGGATGC AGGTGGTCTC CCTGGCGCCC ACGTGTCTCC AGAAGGGCCG GGGCATTGTC CTTCATGAGC TCATGCATGT GCTGGGCTTC TGGCACGAGC ACACGCGGGC CGACCGGGAC CGCTATATCC GTGTCAACTG GAACGAGATC CTGCCAGGCT TTGAAATCAA CTTCATCAAG TCTCGGAGCA GCAACATGCT GACGCCCTAT GACTACTCCT CTGTGATGCA CTATGGGAGG CTTGCCTTCA GCCGGCGTGG GCTGCCCACC ATCACACCAC TTTGGGCCCC CAGTGTCCAC ATCGGCCAGC GATGGAACCT GAGTGCCTCG GACATCACCC GGGTCCTCCA ACTCTACGGC TGCAGCCCAA GTGGCCCCAG GCCCCGTGGG AGAGGGTCCC ATGCCCACAG CACTGGTAGG AGCCCCGCTC CGGCCTCCCT ATCTCTGCAG CGGCTTTTGG AGGCACTGTC GGCGGAATCC AGGAGCCCCG ACCCCAGTGG TTCCAGTGCG GGAGGCCAGC CCGTTCCTGC AGGGCCTGGG GAGAGCCCAC ATGGGTGGGA GTCCCCTGCC CTGAAAAAGC TCAGTGCAGA GGCCTCGGCA AGGCAGCCTC AGACCCTGGC TTCCTCCCCA AGATCAAGGC CTGGAGCAGG TGCCCCCGGT GTTGCTCAGG AGCAGTCCTG GCTGGCCGGA GTGTCCACCA AGCCCACAGT CCCATCTTCA GAAGCAGGAA TCCAGCCAGT CCCTGTCCAG GGAAGCCCAG CTCTGCCAGG GGGCTGTGTA CCTAGAAATC ATTTCAAGGG GATGTCCGAA GATTAA
Molecular Weight	45,936 Da
OMIM	608860
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for ASTL cdna clone	MBS1273515 is a cDNA clone targeting ASTL.
Other Notes	Small volumes of ASTL 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 ASTL. It may not necessarily be applicable to this product.

NCBI GI #	76828040
NCBI GeneID	431705
NCBI Accession #	BC107127
UniProt Secondary Accession #	Q3KNT0
UniProt Related Accession #	Q6HA08

NCBI Official Full Name	Homo sapiens astacin-like metallo-endopeptidase (M12 family), mRNA
NCBI Official Synonym Full Names	astacin like metalloendopeptidase
NCBI Official Symbol	ASTL
NCBI Official Synonym Symbols	SAS1B
UniProt Protein Name	Astacin-like metalloendopeptidase
UniProt Synonym Protein Names	Oocyte astacin; Ovastacin
Protein Family	Astacin-like metalloendopeptidase
UniProt Gene Name	ASTL
UniProt Entry Name	ASTL_HUMAN
NCBI Protein Information	astacin-like metalloendopeptidase
UniProt Comments for ASTL	ASTL: Oocyte-specific oolemmal receptor involved in sperm and egg adhesion and fertilization. Plays a role in the polyspermy inhibition. Probably acts as a protease for the post-fertilization cleavage of ZP2. Cleaves the sperm-binding ZP2 at the surface of the zona pellucida after fertilization and cortical granule exocytosis, rendering the zona pellucida unable to support further sperm binding. Belongs to the peptidase M12A family. Protein type: Protease; EC 3.4.-.- Chromosomal Location of Human Ortholog: 2q11.1 Cellular Component: cytoplasm; plasma membrane Molecular Function: metalloendopeptidase activity; peptidase activity Biological Process: cell adhesion; fertilization; proteolysis
Research Articles on ASTL	**1.** The SAS1B metalloproteinase is proposed as a prototype cancer-oocyte tumor surface neoantigen for development of targeted immunotherapeutics with limited on-target/off tumor effects predicted to be restricted to the population of growing oocytes.
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