

Product datasheet for **SC300403**

ASTL (NM_001002036) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASTL (NM_001002036) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASTL
Synonyms:	SAS1B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_001002036 edited <pre> GCCACCATGGAGGGTGTAGGGGGTCTCTGGCCTTGGGTGCTGGGTCTGCTCTCCTTGCCA GGTGTGATCCTAGGAGCGCCCTGGCCTCCAGCTGCGCAGGAGCCTGTGGTACCAGCTTC CCAGATGGCCTCACCCCTGAGGGAACCCAGGCCTCCGGGGACAAGGACATTCTGCAATT AACCAAGGGCTCATCCTGGAAGAAACCCAGAGAGCAGCTTCTCATCGAGGGGGACATC ATCCGGCCGAGTCCCTTCGACTGCTGTGAGCAACCAGCAACAAATGGCCCATGGGTGGT AGTGGTGTGCTGGAGGTCCCCTTCTGCTCTCCAGCAAGTACGATGAGCCAGCCGCCAG GTCATCCTGGAGGCTCTTGCGGAGTTTGAACGTTCCACGTGCATCAGGTTTGTACCTAT CAGGACCAGAGAGACTTCATTTCCATCATCCCCATGTATGGGTGCTTCTCGAGTGTGGG CGCAGTGGAGGGATGCAGGTGGTCTCCCTGGCGCCACGTGTCTCAGAAGGGCCGGGGC ATTGTCTTCATGAGCTCATGCATGTGCTGGGCTTCTGGCACGAGCACACGCGGGCCGAC CGGACCGCTATATCCGTGTCAACTGGAACGAGATCCTGCCAGGCTTTGAAATCAACTTC ATCAAGTCTCAGAGCAGCAACATGCTGACGCCCTATGACTACTCTCTGTGATGACTAT GGGAGGCTCGCCTTCAGCCGGCGTGGGCTGCCACCATCACCACTTTGGGCCCCCAGT GTCCACATCGGCCAGCGATGGAACCTGAGTGCCTCGGACATCACCCGGGTCTCCAATC TACGGCTGCAGCCCAAGTGGCCCCAGGCCCCGTGGGAGAGGTCCCATGCCACAGCACT GGTAGGAGCCCCGCTCCGGCCTCCCTATCTCTGCAGCGGCTTTTGAGGCACTGTGGCG GAATCCAGGAGCCCCGACCCAGTGGTTCCAGTGCAGGAGGCCAGCCGTTCTCGAGGG CCTGGGGAGAGCCACATGGGTGGGAGTCCCCTGCCCTGAAAAGCTCAGTGCAGAGGCC TCGGCAAGGCAGCCTCAGACCCTGGCTTCTCCCAAGATCAAGGCCTGGAGCAGGTGCC CCCGGTGTTGCTCAGGAGCAGTCTGGCTGGCCGAGTGTCCACCAAGCCACAGTCCCA TCTTCAGAAGCAGGAATCCAGCCAGTCCCTGTCCAGGGAAGCCAGCTCTGCCAGGGGGC TGTGTACCTAGAAATCATTTCAAGGGGATGTCCGAAGATTAA </pre>

Restriction Sites:	Please inquire
ACCN:	NM_001002036



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Insert Size:	1400 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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	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>NM_001002036.2, NP_001002036.2</u>
RefSeq Size:	1296 bp
RefSeq ORF:	1296 bp
Locus ID:	431705
UniProt ID:	<u>Q6HA08</u>
Cytogenetics:	2q11.2
Protein Families:	Transmembrane
Gene Summary:	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 (By similarity).[UniProtKB/Swiss-Prot Function]