

## Product datasheet for **SC309359**

### ASTN2 (NM\_198186) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASTN2 (NM_198186) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASTN2
Synonyms:	bA67K19.1
Vector:	<u>pCMV6 series</u>

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_198186, the custom clone sequence may differ by one or more nucleotides

```

ATGGCCGCGCCGCGCCGCGCTCAGCCCCGGCCCCGGCTCGGGGCTCCGGGGCGGCCG
AGGCTCTGCTTCCACCCGGGCGCCGCACTGCTGCCGCTGCTGCTGTTCTGCTC
CTGCTGCCGCGCCGCGCTGCTGGCCGGCGCCACCGCCGCTGCCTCGCGGGAGCCCGAC
AGCCCGTGCCGGCTGAAGACCGTCACGGTGTCCACTGCCCGCCCTCGGGGAGAGCGAC
ATCGGTGGAGCGCGCCGCGCCGGGGCCGGGGCTGGGACCGGGGCGGAGCCCGCCG
GCCGCCGCGTCCCGGGCTCTCCTGGCTCTGCCGGCACCGCCCGGAGTCGCGCCTCTG
CTCTTTGTGCGTAACGAGCTGCCGGGGCGCATCGCGGTGCAGGACGACCTGGACAACACC
GAGCTGCCCTTCTCACCTGGAGATGTCTGGCACAGCGCGGACATCTCGCTGGTGCAC
TGGAGACAGCAGTGGCTGGAGAATGGCACCTTGTACTTCCACGTCTCCATGAGCAGCTCC
GGGCAGCTGGCCAAGCCACCGCCCCACTCTCCAGGAGCCCTCGGAGATTGTTGAGGAG
CAGATGCACATCTCCACATTTCTGTGATGGGTGGCCTCATCGCGCTGCTGCTGCTG
CTGGTGTTCACCGTGGCGCTGTACGCCAGCGACGTTGGCAGAAGCGTCGCCGCATCCCC
CAGAAGAGCGCAAGCACAGAAGCACTCATGAGATCCACTACATCCCATCTGTGCTGCTG
GGTCCCCAGGCGCGGGAGAGCTTCCGTTTCATCCCGGCTGCAAACCCACAATCCGTCA
CCACTAGGCGGGCCAACCATGTCTCCCGGAGGACGAGTTTGGCAGCCAGGTGACCCAC
ACTCTGGACAGTCTGGGACATCCAGGGGAAGAGAAGGTGGACTTTGAGAAGAAAGCAGCA
GCTGAGGCGACTCAGGAGACAGTGGAGTCCCTGATGCAGAAGTTCAAGGAGAGTTTCCGC
GCTAACACGCCCATCGAGATCGGTGAGTGCACCAACCCCTGCGCAGCACATCGGCAGGG
AAGAGGAAGCGGAGGAGCAAGTCTCGAGGAGGAATCAGCTTTGGGAGAGCAAGGGGACG
TCGGGCTCAGAGGACAGATGAAACTCAGCTGACATTCTACACGGAGCAGTACCGCAGT
CGCCGCCGAGCAAGGTTTGTGAAAAGCCCAGTGAACAAGACAGCCCTGACACTGATT
GCTGTGAGTTCCTGCATCTGGCCATGGTGTGTGGCAGCCAGATGCTTTGCCACTCACT
GTGAAGGTGACTCTGCATGTGCCGAGCACTTCATAGCAGATGGAAGCAGCTTCTGTGGT
AGTGAAGGGAGCTACCTGGACATCTCCGACTGGTTAAACCCGGCCAAGCTTTCCCTGTAT
TACCAGATCAATGCCACCTCCCCATGGGTGAGGGACCTCTGTGGACAAAGGACGACAGAT
GCCTGTGAGCAGCTCTGCGACCCAGAAACCGGAGAGTGCAGCTGTGATGAAGGCTATGCC
CCTGACCTGTTACAGACACCTGTGTGTGCGCAGTACTGGGGACAGAGTGAAGGACCT
TGGCCCTACACGACACTGAGAGGGGCTATGATCTGGTGCAGGGGAGCAAGCCCTGAA

```



[View online >](#)

```

AAGATTCTCAGCTTGGGCCAAGGCCTCTGGCTTCTGTGTCAGCAAAAGCTTTGTGGTTCCG
CCTGTGGAGCTGTCCATCAACCCCTGGCCAGCTGCAAGACCGATGTGCTCGTCACGGAA
GACCCTGCAGATGTCAGGGAAGAAGCGATGCTGTCCACATACTTTGAAACCATCAATGAC
CTGCTGTCTTCCCTTCGGGCCAGTTTCGTGACTGCTCTCGGAACAATGGGGGCTGCACTCGC
AACTTCAAGTGTGTGCTGACCGGCAGGTGGATTCTCGGGATGTGTGTGCCCTGAGGAG
CTGAAACCCATGAAGGATGGCTCTGGCTGCTACGACCACTCCAAGGCATTGACTGCTCT
GATGGCTTTAATGGCGGCTGTGAGCAGCTGTGCCTGCAGCAGACGCTGCCCTGCCCTAC
GATGCCACTTCGAGCACCATCTTCATGTTCTGCGGTTGCGTGGAGGAGTACAAACTGGCT
CCTGATGGAAAATCCTGTCTAATGCTCTCAGATGTCTGCGAGGGCCCAAGTGCCTCAA
CCTGACTCCAAATTCAATGATACCCTCTTTGGAGAGATGCTACATGGTTACAACAACCGG
ACCCAGCATGTGAACCAAGGCCAAGTCTTCCAGATGACCTTTAGGGAGAACAACCTCATC
AAGGACTTTCCCGAGCTGGCCGATGGGCTGTTGGTATCCCGCTGCCGGTGGAGGAGCAG
TGCCGGGGGGTCTCTCCGAGCCCCTCCGGACCTCCAAGTCTCACTGGAGATATCAGG
TATGATGAGGCCATGGGTTACCCATGGTGCAGCAGTGGCGGGTCCGGAGCAACCTTAC
CGTGTGAAGCTCAGCACCATCACCTCGCAGCAGGCTTACTAATGTTCTCAAGTCTCTG
ACCAAGGAGAGCAGTCCGGAGGAGCTGCTGCTTCCATCCAGCACTATGGCTCCCACTAC
ATCGCAGAGGCCCTCTATGGCTCAGAGCTCACCTGCATCATCCACTTTCCAGCAAGAAG
GTCCAGCAGCAGCTGTGGCTCCAGTATCAGAAAGAGACCAGAGCTGGGCAGCAAGAAG
GAGCTCAAGTCCATGCCCTTCATCACCTACCTCTCAGGTTTGGTGCAGAGCCAGATGCTG
TCAGATGACCAGCTCATTTCAAGTGTGGAGATTCGCTGTGAGGAGAAGGGGGCTGTCCA
TCTACCTGTACCTTTGCCGCCGCCAGGCAAGGAGCAGCTGAGCCCCACACCAAGTGTG
CTGAAATCAACCGTGTGGTGCCTTTATACCCTCATCAAGACAATGGCACAAGGAG
GCCTTCAAGAGTGCAGTATGAGTTCCTACTGGTCTCAGGAAAAGGGGATGTGATCGAT
GACTGGTGCAGGTGTGACCTCAGCGCCTTTGATGCCAATGGGCTCCCAACTGCAGCCCC
CTTCTGCAGCCGGTGTGCTGCGGCTGTCCCAACAGTGGAGCCCTCCAGTACTGTGGTCTCC
TTGGAGTGGTGGATGTTTCAGCCAGCTATTGGGACCAAGGTCTCCGACTATATTCTGCAG
CATAAGAAAGTGGATGAATACACAGACACTGACCTGTACACAGGAGAATTCCTGAGTTTT
GCTGATGACTTACTCTCTGGCCTGGGCACATCTTGTGTAGCAGCTGGTCGAAGCCATGGA
GAGGTCCCTGAAGTCAATCTACTCAGTCATCTTCAAGTGTCTGGAGCCCGACGGTCTC
TACAAGTTCACTCTGTATGCTGTGGATACACGAGGGAGGCACTCAGAGCTAAGCACGGTG
ACCCTGAGGACCGCCTGTCCACTGGTAGATGACAACAAGGCAGAAGAAATAGCTGACAAG
ATCTACAATCTGTACAATGGGTACACAAGTGGAAAGGAGCAGCAGATGGCTTACAACACA
CTGATGGAGGTCTCAGCCTCGATGCTGTTCCGAGTCCAGCACCATACTCTCACTAT
GAAAAGTTTGGCGACTTCGTCTGGAGAAGTGGAGTGGAGTGGGGCCAGGAAGGCCAC
CTGATTCTACGGCGACTGGAGAGGGTGGAGTGGCCACTGCTCCAGCCTCCTGCGGAGTGCC
TACATCCAGAGCCGCGTGGAAACAGTGCCTATCTTTCTGCCGAGCGAGGAGGTCGG
CCTGCAGGCATGGTGTGGTATAGCATCCTCAAGGACACCAAAATCACGTGTGAGGAGAAG
ATGGTGTCAATGGCCCGAACACGTACGGGGAGTCCAAGGGCCGGTGA
    
```

- Restriction Sites:** Please inquire
- ACCN:** NM\_198186
- 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_198186.2</a></u> , <u><a href="#">NP_937829.2</a></u>
<b>RefSeq Size:</b>	4756 bp
<b>RefSeq ORF:</b>	4008 bp
<b>Locus ID:</b>	23245
<b>UniProt ID:</b>	<u><a href="#">O75129</a></u>
<b>Cytogenetics:</b>	9q33.1
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	<p>This gene encodes a protein that is expressed in the brain and may function in neuronal migration, based on functional studies of the related astrotactin 1 gene in human and mouse. A deletion at this locus has been associated with schizophrenia. Multiple transcript variants encoding different proteins have been found for this locus. [provided by RefSeq, May 2010]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a.</p>