

Product datasheet for SC313289

ASTN2 (NM_198188) Human Untagged Clone

Product data:

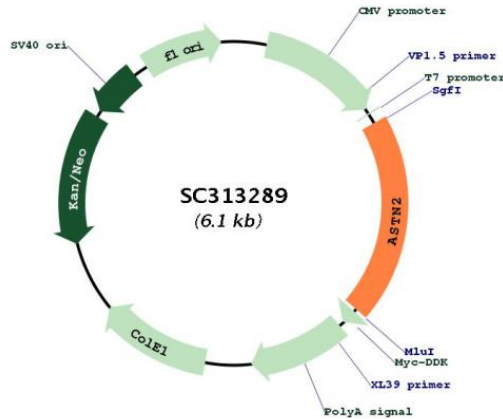
Product Type:	Expression Plasmids
Product Name:	ASTN2 (NM_198188) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASTN2
Synonyms:	bA67K19.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313289 representing NM_198188. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCCCTTCATCACCTACCTCTCAGTTTGTGACAGCCAGATGCTGTCAGATGACCAGCTCATTTCA
GGTGTGGAGATTCGCTGTGAGGAGAAGGGGCGCTGTCCATCTACCTGTCACCTTTGCCGCCGCCAGGC
AAGGAGCAGCTGAGCCCCACACCAGTGTGCTGGAATCAACCGTGTGGTCCACTTTATACCCTCATC
CAAGACAATGGCACAAGGAGGCCTTCAAGAGTGCAGTGTGAGTTCTACTGGTGTCTCAGGAAAGGG
GATGTGATCGATGACTGGTGCAGGTGTGACCTCAGCGCCTTTGATGCCAATGGGCTCCCCAACTGCAGC
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TGGGTGGATGTTAGCCAGCTATTGGGACCAAGGTCTCCGACTATATTCTGCAGCATAAGAAAGTGGAT
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TTCAAGTGTCTGGAGCCCGACGGTCTCTACAAGTTCACCTGTATGCTGTGGATACACGAGGGAGGCAC
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GCTGACAAGATCTACAATCTGTACAATGGGTACACAAGTGGAAAGGAGCAGCAGATGGCCTACAACACA
CTGATGGAGGTCTCAGCCTCGATGCTGTCCGAGTCCAGCACCCTCAACTCTCACTATGAAAAGTTT
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GAGAGGGTGAAGTACCCACTGCTCCAGCCTCTGCGGAGTGCCTACATCCAGAGCCCGTGGAAACAGTG
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ACCAAAATCACGTGTGAGGAGAAGATGGTGTCAATGGCCCGAAACACATATTATTTGACTCTATCAAAA
GTCTCTCCTTTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:


ACCN: NM_198188

Insert Size: 1188 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: [NM_198188.2](#)

RefSeq Size: 1799 bp

RefSeq ORF: 1188 bp

Locus ID: 23245

UniProt ID: [O75129](#)

Cytogenetics: 9q33.1

Protein Families: Transmembrane

MW: 44.6 kDa

Gene Summary: 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]
Transcript Variant: This variant (4) 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. This variant also lacks a segment in the 3' coding region compared to variant 1. The encoded isoform (d) has distinct N- and C-termini and is shorter than isoform a.