

## Product datasheet for **RG215652**

### ASTN2 (NM\_198188) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASTN2 (NM_198188) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ASTN2
Synonyms:	bA67K19.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215652 representing NM_198188 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCCTTCATCACCTACCTCTCAGTTTGCTGACAGCCAGATGCTGTCAGATGACCAGCTCATTTGAG  
GTGTGGAGATTCGCTGTGAGGAGAAGGGGCGCTGCCATCTACCTGTACCTTTGCCGCCGGCCAGGCAA  
GGAGCAGCTGAGCCCCACACCAGTGTCTGCTGAAATCAACCGTGTGGTCCACTTTATACCTCATCCAA  
GACAATGGCACAAGGAGGCCTCAAGAGTGCCTGATGAGTTCTACTGGTCTCAGGAAAGGGGATG  
TGATCGATGACTGGTGCAGGTGTGACCTCAGCGCCTTTGATGCCAATGGGCTCCCAACTGCAGCCCCT  
TCTGCAGCCGGTGTGCGGCTGTCCCAACAGTGGAGCCCTCCAGTACTGTGGTCTCCTTGAGTGGGTG  
GATGTTACGCCAGCTATTGGGACCAAGGTCTCCGACTATATTCTGCAGCATAAGAAAGTGGATGAATACA  
CAGACACTGACCTGTACACAGGAGAATTCCTGAGTTTTGCTGATGACTTACTCTCTGGCCTGGGCACATC  
TTGTGTAGCAGCTGGTCGAAGCCATGGAGAGGTCCCTGAAGTCAGTATCTACTCAGTCATCTTCAAGTGT  
CTGGAGCCCGACGGTCTCTACAAGTTCCTCTGTATGCTGTGGATACACGAGGGAGGCACTCAGAGCTAA  
GCACGGTGACCCCTGAGGACGGCCTGTCCACTGGTATGACAACAAGGCAGAAGAAATAGCTGACAAGAT  
CTACAATCTGTACAATGGGTACACAAGTGGAAAGGAGCAGCAGATGGCCTACAACACACTGATGGAGTCT  
TCAGCCTCGATGCTGTTCCGAGTCCAGCACCCTACAACCTCACTATGAAAAGTTGGCGACTTCGTCT  
GGAGAAGTGAGGATGAGCTGGGGCCAGGAAGGCCACCTGATTCTACGGCGACTGGAGAGGGTGAGTAG  
CCACTGCTCCAGCCTCCTGCGGAGTGCCTACATCCAGAGCCGCGTGGAAACAGTGCCTATCTTTCTGC  
CGCAGCGAGGAGGTCCGGCCTGCAGGCATGGTGTGGTATAGCATCCTCAAGGACACCAAAATCACGTGTG  
AGGAGAAGATGGTGTCAATGGCCGAAACACATATTATTTGACTTATCAAAAAGTCTCTCCTTTT

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG215652 representing NM\_198188  
Red=Cloning site Green=Tags(s)

MPFITYLSGLLTAQMLSDDQLISGVEIRCEEKGRCPSTCHLCRRPGKEQLSPTPVLLLEINRVVPLYTLIQ  
 DNGTKEAFKSALMSSYWCSGKGDVIDDWCRCDLSAFDANGLPNCSPLLQPVLRLSPTVEPSSTVVSLEWV  
 DVQPAIGTKVSDYILQHKKVDEYTDLDL YTFEFLSFADLLSGLGTSCVAAGRSHGEVPEVSIYSVIFKC  
 LEPDGLYKFTLYAVDTRGRHSELSTVTLRTACPLVDDNKAAEEIADKIYNLYNGYTSKGEQQMAYNTLMEV  
 SASMLFRVQHYNSHYEKFGDFVWRSEDELGPRKAHLILRRLERVSSHCSLLRSAYIQSRVETVPYLF  
 RSEEVPRAGMVWYSILKDTKITCEEKMSMARNTYYLTL SKVSPF

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_198188

**ORF Size:** 1185 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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](#), [NP\\_937831.1](#)

**RefSeq Size:** 1772 bp

**RefSeq ORF:** 1188 bp

**Locus ID:** 23245

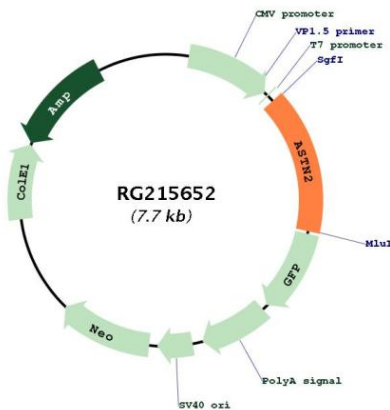
**UniProt ID:** [O75129](#)

**Cytogenetics:** 9q33.1

**Protein Families:** Transmembrane

**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]

### Product images:



Circular map for RG215652