

Product datasheet for **RG214511**

ASTN2 (NM_198186) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASTN2 (NM_198186) 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:	>RG214511 representing NM_198186 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACACATTGCTCTGTAAAGGAATGTTTTGCCTACTCAGCTGGGAGGCCGACAGCAGAGGCAGACTTG
GGGAGTACACTCTGCAGCCCTGTCCCTGCAGACTGAAGAGACCACAGAGCTGGGCAGCAAGAAGGAGCT
CAAGTCCATGCCCTTCATCACCTACCTCTCAGGTTTGCTGACAGCCAGATGCTGTCAGATGACCAGCTC
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CAGGCAAGGAGCAGCTGAGCCCCACACAGTGCTGCTGGAATCAACCGTGTGGTCCACTTTATACCT
CATCCAAGACAATGGCACAAAGGAGGCCTTCAAGAGTGCAGTGTGAGTTCTACTGGTGTCTCAGGAAA
GGGGATGTGATCGATGACTGGTGCAGGTGTGACCTCAGCGCCTTTGATGCCAATGGGCTCCCCAACTGCA
GCCCCCTTCTGCAGCCGGTGTGCGGCTGTCCCCAACAGTGGAGCCCTCCAGTACTGTGGTCTCCTTGGA
GTGGGTGGATGTTTCAGCCAGCTATTGGGACCAAGGTCTCCGACTATATTCTGCAGCATAAGAAAGTGGAT
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CAAGTGTCTGGAGCCGACGGTCTCTACAAGTTCACTCTGTATGCTGTGGATACACGAGGGAGGCACTCA
GAGCTAAGCACGGTGACCCTGAGGACGGCCTGTCCACTGGTAGATGACAACAAGGCAGAGAAATAGCTG
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GGAGGTCTCAGCCTCGATGCTGTTCGAGTCCAGCACCCTACAACCTCTCACTATGAAAAGTTTGCGGAC
TTCGTCTGGAGAAGTGGAGTGTGCTGGGGCCAGGAAGGCCACCTGATTCTACGGCGACTGGAGAGGG
TGAGTAGCCACTGCTCCAGCCTCCTGCGGAGTGCCTACATCCAGAGCCGCGTGAAACAGTGCCCTATCT
TTTCTGCCGACGAGGAGGTCCGGCCTGCAGGCATGGTGTGGTATAGCATCTCAAGGACACCAAAATC
ACGTGTGAGGAGAAGATGGTGTCAATGGCCGAAACACGTACGGGGAGTCCAAGGGCCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG214511 representing NM_198186
 Red=Cloning site Green=Tags(s)

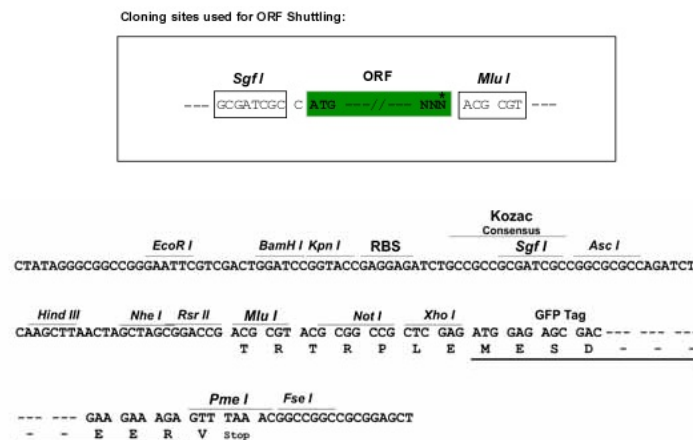
MNTLLCKGMFCLLSWEADSRGRLGEYTLQPLSLQTEETELGSKKELKSMPFITYLSGLLTAQMLSDDQL
 ISGVEIRCEEKGRCPSTCHLCRRPGKEQLSPTPVLLLEINRVVPLYTLIQDNGTKEAFKSALMSSYWCSGK
 GDVIDDWCRCDLSAFDANGLPNCSPLLQPVLRLSPTVEPSSTVVSLEWVDVQPAIGTKVSDYILQHKKVD
 EYTDLDLYTGEFLSFADDLLSGLGTSCVAAGRSHGEVPEVSIYSVIFKCLEPDGLYKFTLYAVDTRGRHS
 ELSTVTLRTACPLVDDNKAEIADKIYNLYNGYTSKGEQQMAYNTLMEVSASMLFRVQHYNHSHYEKFGD
 FVWRSEDELGPRKAHLILRRLERVSSHCSLLRSAYIQSRVETVPYLCRSEEVRPAGMVWYSILKDTKI
 TCEEKVMYSMARNTYGESKGR

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_198186

ORF Size: 1320 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_198186.3](#), [NP_937829.3](#)

RefSeq Size: 2369 bp

RefSeq ORF: 1323 bp

Locus ID: 23245

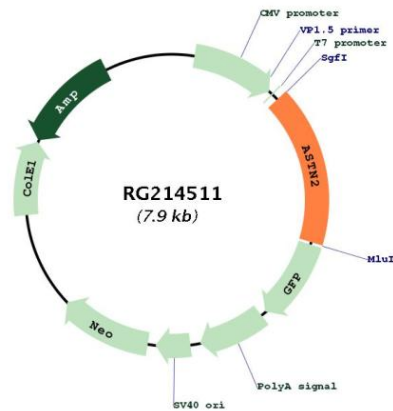
UniProt ID: [O75129](#)

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 RG214511