

Product datasheet for MC224157

Astn1 (NM_007495) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Astn1 (NM_007495) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Astn1
Synonyms:	Astn; GC14; mKIAA0289
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC224157 representing NM_007495 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTTAGCCGGGCTCTGCGCCCTGTTGCGCTGCTGCTGGGGCCGGCTGCGGTGCTGGCCACAGCTG
CCGGCGACGTGGATCCATCCAAGGAGCTGGAGTGCAAGCTCAAGAGCATCACTGTGTCGGCACTGCCCTT
CCTGCGCGAGAACGACCTGAGCATCATGCACAGTCCCTCGGCCTCCGAACCAAGCTTCTCTTCTCCGTG
CGCAATGACTTCCCGGGAGAAATGGTCGTGGTGGACGACCTAGAGAACACGGAGCTACCCTATTTGCTGC
TGGAGATCTCAGGGAATACAGAAGACATCCCCCTGGTGCCTGGAGGCAGCAATGGCTGGAGAATGGCAC
TTTACTCTTTATATACCACCAAGATGGTGTCTCCAAGTCTCCCTGGACAAGACCAACTGAAGAACC
CAACATGAATCAGCAGAGGAAGAGCTGAGGATCCTGCACATCTCAGTCATGGGTGGCATGATCGCTCTGT
TGCTATCCATCTTGTGCCTGGTATGATCCTGTACACTCGCAGGCGCTGGTGCAAACGTGCGCCGGTTCC
CCAGCCCCAGAAGAGTGCCAGTGCAGAGGCAGCAATGAGATTCATACATCCCCTGTGCTGATTGGA
GGCCATGGGCGGAAAGCTTGCACATGCCCGTGTGCAGGGCCACAACCTCAGTGGCCTGAGCATTG
GGGAGACACCCATCCTGGATGGCTATGAGTATGACATCACAGACCTGCGTCACCACCTGCAAAGGGAGTG
TATGAATGGAGGGGAGGACTTTGCCAGTCAGGTCACACGCACTTTGGACTCCCTACAGGGATGCAATGAG
AAGTCTGGGATGGATCTAACACCAGGGAGTGACAAATGCCAAGCTTTCCCTGATGAACAAGTATAAAGACA
ATATCATAGCCACAAGCCCCGTGGATTCTAACACCAGCAAGCCACTCTGCTCTCCACACCTCCAGCAG
CCAGAGAAAGAGGATCAACAATAAAGCCAGAGCTGTTTCTGCCTTCTTGAACCTGAAGGGGACTCCAGC
ACAGAGGCCGAAAATGACCCACAGCTGACCTTCTACACAGACCCCTCTCGGAGCCGGAGGCGCAGTCGAG
TGGGCTCTCCCCGAAGTCTGTGAATAAGACCACCTTGACCCTGATCAGTGTACCAGCTGCGTGATTGG
CCTCGTGTCTTCTCATGTGCTGAGTCCCTCTTGTGTCAAGATCACCTACACGTCCCTGAGCACTTG
ATCGTGTATGGGAGCCGCTTTCATCTGCTGGAGGGGAGCCAGCTGGATGCCAGTACTGGCTGAACCTG
CCCAAGTGGTTCTTCTCTCAGCAGAATCCAGCGGGCCCTGGGCCATGGACCTCTGTGCCCGGGCT
CCTGGACCTTGTGAACCAATGTGACCCGAAACTGGGGAATGCCTGTGCTATGAAGGCTACATGAAG
GATCCTGTCCACAAGCACCTTTCATTCCGAATGAATGGGGGACCAACCAGGGGCTTGGCTTACACGA



TATTTTCAGCGAGGCTTTGACCTGGTTTTGGGAGAGCAACCCTCTGATAAGATATTCAGATTCACCTATAC
 CCTCGGGGAAGGCATGTGGTTACCCCTCAGTAAGAGCTTTGTGATTCCACCAGCCGAAGTACCCATCAAT
 CCATCAGCAAAGTGAAGACGGATATGACTGTGATGGAAGATGCTGTAGAGGTCAGAGAGGAGCTGATGA
 CATCATCATCCTTTGACAGCCTGGAGGTCTATTAGACTCCTTTGGGCCAGTGCCTGATTGCAGCAAAGA
 TAACGGAGGCTGCAGTAAGAATTTTCGCTGCATTTAGATCGCAAGTTGGACTCTACTGGTTGTGTGTGT
 CCTTCAGGACTCAGCCCTATGAAGGACAGCTCAGGCTGCTATGATCGCCATATCGGAGTGGACTGCTCAG
 ATGGTTTCAACGCGCGCTGCGAACAGCTGTGTCTCCAGCAGATGGCGCCGTTCCAGAGGACCCACCTT
 GTACAACATCCTTATGTTCTGCGGGTGTATCGAAGACTACAAGCTTGGTGTGGATGGACGCTCTTGCCAA
 CTTGTCACTGAGACCTGCCAGAGGGAGGTGACTGTGGGAAAGCAGAGAGGTTCCCATGAACCAGACTC
 TCTTTGGAGAAATGTTCTTTGGCTACAACAACCAAGTCCAAGGAAGTAGCCACTGGACAGGTGCTAAAAGG
 AACATTGACAGAGAACAACCTTTGCTCGTGGTTTAGACCAGCAACTGCCGGATGGTCTTGTGGTTGCCTCT
 GTCCCACTGGAGAATCAGTGCCTAGAGGAAATCTCAGAGCCACCCAGACCCTGACTTCTTGACTGGGA
 TGGTGAACCTCAGTGAAGTGTCTGGATACCCGGTGTGCAGCACTGGAAGTTCCGGTCTGTGATGTACCA
 CATCAAACCAAGCAGCCATCTCGCAGGCCCTCAGCAATGCTCTTCACTCCTTGGATGGGGCTACA
 TCTCGTGCAGATTTTGTGGCTTTGTTGGATCAGTTTGGAAACCATTACATCCAGGAAGCTGTCTACGGCT
 TTGAGGAATCCTGTTCTATATGGTACCCAAACAAGCAAGTCCAGCGGAGACTCTGGCTGGAATATGAAGA
 CATCAGTAAAGGCAACTCTCCATCTGATGAGTCCGAGGAGCGGGAAAGGGATCCCAAGGTGCTGACATTC
 CAGAATACATCGCTAGCCTGTCAGACTCTGGCACAAGCGAATGGCAGCTGGAGTCCGGATGGAGTGC
 AGAGCAAGGGACGGTGTCCCTCATCCTGTCTTTATGTCATGTGACATCCAGCCCTGAAACCCCTGCTGA
 GCCAGTTCTACTGGAAGTGACCAGAGCATCCCCATCTATGAACTGGTGACCAATAACCAGACCCAGAGG
 CTCTTACAGGAAGCCACCATGAGCTCTCTCTGGTGTTCAGGGACCGGAGATGTCATTGAGGACTGGTGCC
 GATGCGACTCGACTGCTTTTGGAGCAGATGGACTTCTACCTGTGCACCCCTCCACAGCCTGTGCTGAG
 ACTTTCCACAGTACACGAGCCAGCAGTAACCTCGTGGTCTGGAGTGGGAACATTACAGAGCCGCCAATT
 GGGGTGCAGATTGTAGACTACCTGATCCGGAAGAGAAAGTCACTGACCGGATGGACCACCTCCAAAGTAG
 AGACGGAAACAGTGTGAGCTTTGTAGACGACATCATCTCTGGAGCAAAGGCTCCATGTGCCATGCCGTC
 TCAGGTGCCAGACAAACAGCTCACCACGATTTCTCTCATCATCCGATGCCTGGAACCTGACACCATTTAC
 ATGTTACCCCTCTGGGAGTAGATAACACAGGGCGACGTTCCAGGCCAAGTATGATGTGATTGTGAAGACCC
 CATGTCCTGTGGTGGATGATGTCAAAGCCCAAGAAATAGCAGACAAGATCTACAATCTCTCAATGGCTA
 CACCAGTGGAAAGGAGCAACAGACTGCCTACAACACCCTTCTGGATCTGGGTTCTCCACTTTGCACCGA
 GTCCTCTACCACTATAACCAGCACTATGAGAGTTTTGGGGAATCACCTGGCGGTGTGAAGATGAGTTAG
 GACCCAGGAAAGCAGGCCTCATCTTTCCAGCTTGGAGATCTGAGCAGCTGGTGAATGGACTCCTTCA
 GGAGCCCAAGATAAGCTTGAGGCGTGGTCACTCAAGTACCTGGGCTGCCGCTACAGTGAGATCAAACCC
 TATGGACTGGACTGGTCAAGACTCAGTCCGGACCTCAGGAAGACATGTGAAGAACAGACCCTGAGTGTCC
 CCTACAATGACTACGGGGACAGCAAAGACATCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_007495
- Insert Size:** 3885 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).
- 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_007495.4](#), [NP_031521.2](#)

RefSeq Size: 7217 bp

RefSeq ORF: 3885 bp

Locus ID: 11899

UniProt ID: [Q61137](#)

Cytogenetics: 1 H1

Gene Summary: Neuronal adhesion molecule that is required for normal migration of young postmitotic neuroblasts along glial fibers, especially in the cerebellum. Required for normal rate of migration of granule cells during brain development and for normal cerebellum development.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) uses an alternate in-frame splice site in the central coding region, compared to variant 1. This results in a shorter protein (isoform 2), compared to isoform 1.