

Product datasheet for MR223104

Astn2 (NM_019514) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Astn2 (NM_019514) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Astn2
Synonyms:	1d8; Astnl; bM452j22.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR223104 representing NM_019514 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >MR223104 representing NM_019514
 Red=Cloning site Green=Tags(s)

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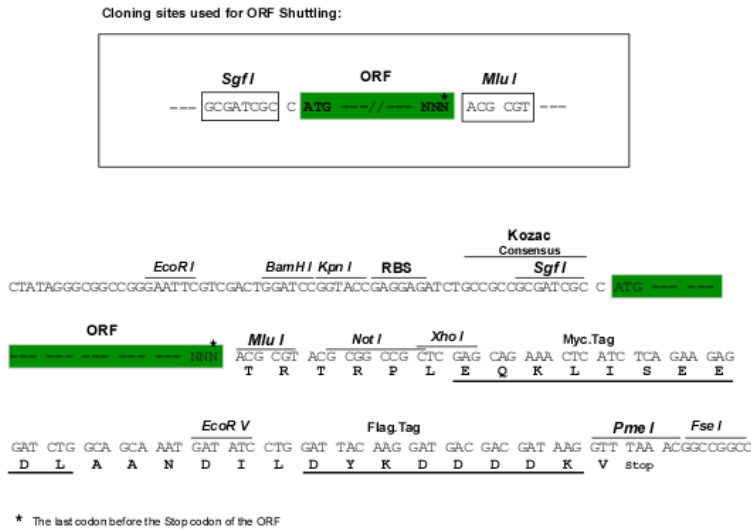
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Chromatograms: https://cdn.origene.com/chromatograms/mm9030_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

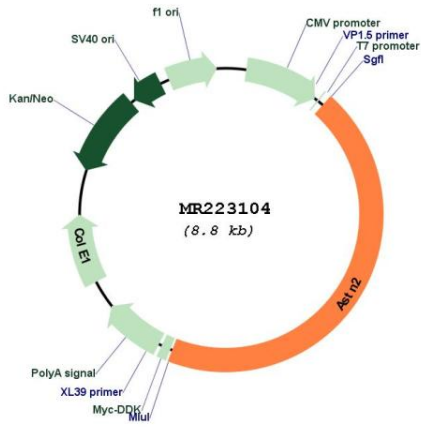


ACCN: NM_019514

ORF Size: 3900 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:	<ol style="list-style-type: none"> 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_019514.3 , NP_062387.2
RefSeq Size:	4675 bp
RefSeq ORF:	3903 bp
Locus ID:	56079
UniProt ID:	Q80Z10
Cytogenetics:	4 C1
MW:	144.1 kDa
Gene Summary:	Mediates recycling of the neuronal cell adhesion molecule ASTN1 to the anterior pole of the cell membrane in migrating neurons. Promotes ASTN1 internalization and intracellular transport of endocytosed ASTN1 (PubMed:20573900). Selectively binds inositol-4,5-bisphosphate, inositol-3,4,5-trisphosphate and inositol-1,3,4,5-tetrakisphosphate, suggesting it is recruited to membranes that contain lipids with a phosphoinositide headgroup (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR223104