

## Product datasheet for MR217826

### Ensa (NM\_019561) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ensa (NM_019561) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ensa
Synonyms:	1700020C18Rik; 2610007F17Rik; AI451924
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>&gt;MR217826 representing NM_019561            Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC            GCCCGCATCGCC</p> <p>ATGTCCAGAAACAAGAAGAAGAAAACCCTGCGGAGGAGACCGGCGAGGAGAAGCAGGATACACAGGAGA            AAGAAGGGATTCTCCCTGAGAAAGCTGAGGAGGCAAAGCTAAAGGCCAAATATCCAAGCCTAGGACAAAA            GCCTGGAGGCTCCGACTTCCTCATGAAGAGACTCCAGAAAGGGCAAAAGTACTTTGACTCAGGAGACTAC            AACATGGCCAAAGCCAAGATGAAGAACAAGCAGCTGCCAAGTGCAGGAGCAGACAAGAACCTGGTGACCG            GTGACCACATCCCACCCACAGGACCTGCCCCAGAGAAAGTCTCGCTCGTCACCAGCAAGCTTGCGGG            TGGCCAAGTTGAG</p> <p>ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT            ACAAGGATGACGACGATAAGGTTTAA</p>
Protein Sequence:	<p>&gt;MR217826 representing NM_019561            Red=Cloning site Green=Tags(s)</p> <p>MSQKQEEENPAEETGEEKQDTQEKEGILPEKAEEAKLKAKYPSLGQKPGGSDFLMKRLQKGQKYFDSGDY            NMAKAKMKNKQLPSAGADKNLVTGDHIPTPQDLPRKSSLVTSKLAGGQVE</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Restriction Sites:	SgfI-MluI


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## Cloning Scheme:



ACCN: NM\_019561

ORF Size: 363 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\\_019561.2](#), [NP\\_062507.1](#)

RefSeq Size: 1192 bp

RefSeq ORF: 366 bp

Locus ID: 56205

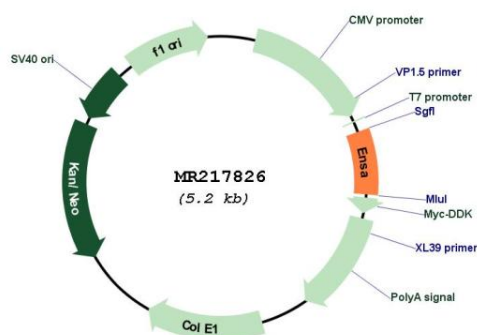
UniProt ID: [P60840](#)

Cytogenetics: 3 F2.1

MW: 13.8 kDa

**Gene Summary:** Protein phosphatase inhibitor that specifically inhibits protein phosphatase 2A (PP2A) during mitosis. When phosphorylated at Ser-67 during mitosis, specifically interacts with PPP2R2D (PR55-delta) and inhibits its activity, leading to inactivation of PP2A, an essential condition to keep cyclin-B1-CDK1 activity high during M phase. Also acts as a stimulator of insulin secretion by interacting with sulfonylurea receptor (ABCC8), thereby preventing sulfonylurea from binding to its receptor and reducing K(ATP) channel currents (By similarity). [UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MR217826