

## POU6F1 cDNA

Catalog Number: ATGD0487

### PRODUCT INFORMATION

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**Catalog number**

ATGD0487

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_002693.3

**Alternative Names**

BRN5, MPOU, TCFB1

**mRNA Refseq**

NM\_002702.3

**OMIM****Chromosome location**

12q13.13

### PRODUCT SPECIFICATION

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**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

906bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

POU6F1 belongs to the POU transcription factor family. This protein is transcription factor that binds

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preferentially to a variant of the octamer motif (5'-ATGATAAT-3'). In the embryo, it is expressed exclusively in the developing brain, whereas in the adult its expression is restricted to brain, heart, skeletal muscle and lung. In the brain, the highest expression levels are found in specific cell layers of the cortex, the olfactory bulb, the hippocampus and the cerebellum.

**DATA****Sequence nucleotides**

```
ATGCCAGGGATCAGCAGTCAGATCCTCACCAATGCTCAGGGACAGGTTATTGGAACCCCTCCATGGGTAGTGAACCTCAGCT
AGTGTGGCGGCCCCAGCACCAGCCCAAAGCCTGCAGGTCCAGGCCGTGACCCCCAGCTGTTGTTGAACGCCAGGGCCA
GGTGATTGCGACCCTGGCTAGCAGCCCCCTGCCTCCACCTGTGGCTGTCCGGAAGCCAAGCACACCTGAGTCCCCTGCTAA
GAGTGAGGTGCAGCCCATCCAGCCCACACCAACCGTGCCCCAGCCTGCTGTGGTCATTGCCAGCCCAGCTCCAGCCGCCA
AGCCATCTGCCTCTGCTCCTATCCCAATTACCTGCTCAGAGACCCCCACCGTCAGCCAGTTGGTGTCCAAGCCACATACTCC
AAGTCTGGATGAGGATGGGATCAACTTAGAAGAGATCCGGGAGTTTGCCTAAGAAGCTTTAAGATCCGGCGGCTCTCGCTGGG
CCTTACACAGACCCAGGTGGGTCAGGCTCTGACTGCAACGGAAGGTCCAGCCTACAGCCAGTCAGCCATCTGCCGGTTCGA
GAAGCTAGACATCACACCCAAGAGTGCCAGAAGCTAAAGCCGGTGCTGGAAAAGTGGCTAAACGAAGCTGAACCTGCGGA
ACCAGGAAGGCCAGCAGAACCTGATGGAGTTTGTGGGAGGCGAGCCCTCCAAGAAACGCAAACGCCGCACCTCCTTACC
CCCCAGGCCATAGAGGCTCTCAATGCCTATTTTGAAGAAGAACCCTGCCCCACAGGCCAGGAGATCACTGAAATTGCTAAG
GAGCTCAACTACGACCGTGAGGTAGTGCGGGTCTGGTTCTGCAATCGGCGCCAGACGCTCAAGAACACCAGCAAGCTGAA
CGTCTTTCAGATCCCTTAG
```

**Transaction Sequence**

```
MPGISSQILT NAQQQVIGTL PWVVNSASVA APAPAQSLQV QAVTPQLLN AQQQVIATLASSPLPPPVAV RKPSTPESPA
KSEVQPIQPT PTVPQPAVVI ASPAPAAKPS ASAPIPITCSETPTVSQLVS KPHTPSLDED GINLEEIREF AKNFKIRRLS
LGLTQTQVGQ ALTATEGPAYSQSAICRFEK LDITPKSAQK LKPVLEKWLN EAELRNQEGQ QNLMEFVGGE
PSKKRKRRTSFTPQAIEALN AYFEKNPLPT GQEITEIAKE LNYDREVVVRV WFCNRRQTLK NTSKLNQVFQIP
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