

Recombinant Mouse Pou3f2 Protein, Myc/DDK-tagged

Cat. No. Pou3f2-5020M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length POU domain, class 3, transcription factor 2 (Pou3f2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Transcription factor that plays a key role in neuronal differentiation Binds preferentially to the recognition sequence which consists of two distinct half-sites, ('GCAT') and ('TAAT'), separated by a non-conserved spacer region of 0, 2, or 3 nucleotides. Acts as a transcriptional activator when binding cooperatively with SOX4, SOX11, or SOX12 to gene promoters. The combination of three transcription factors, ASCL1, POU3F2/BRN2 and MYT1L, is sufficient to reprogram fibroblasts and other somatic cells into induced neuronal (iN) cells in vitro. Acts downstream of ASCL1, accessing chromatin that has been opened by ASCL1, and promotes transcription of neuronal genes
Molecular Mass	47.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name Pou3f2 POU domain, class 3, transcription factor 2 [*Mus musculus* (house mouse)]

Official Symbol Pou3f2

Synonyms POU3F2; POU domain, class 3, transcription factor 2; octamer-binding protein 7; brain-2 class III POU-domain protein; octamer-binding transcription factor 7; brain-specific homeobox/POU domain protein 2; nervous system-specific octamer-binding transcription factor N-Oct-3; Brn2; Otf7; Brn-2; OTF-7; oct-7; 9430075J19Rik; A230098E07Rik

Gene ID 18992

mRNA Refseq NM_008899

Protein Refseq NP_032925

UniProt ID P31360

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