

Product datasheet for **TP525266**

Pou3f2 (NM_008899) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse POU domain, class 3, transcription factor 2 (Pou3f2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	A DNA sequence from Mouse cDNA ORF Clone, MR225266, encoding Mouse full-length Pou3f2.
Tag:	C-MYC/DDK
Predicted MW:	47.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_032925
Locus ID:	18992
UniProt ID:	P31360
RefSeq Size:	1338
Cytogenetics:	4 9.73 cM
RefSeq ORF:	1335
Synonyms:	9430075J19Rik; A230098E07Rik; Brn-2; Brn2; oct-7; OTF-7; Otf7



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Summary:

Transcription factor that plays a key role in neuronal differentiation (PubMed:24243019). 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 (By similarity). 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 (PubMed:20107439, PubMed:24243019, PubMed:27281220). Acts downstream of ASCL1, accessing chromatin that has been opened by ASCL1, and promotes transcription of neuronal genes (PubMed:24243019).[UniProtKB/Swiss-Prot Function]