

OriGene Technologies, Inc.

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Product datasheet for TP525368

Pou4f1 (NM_011143) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse POU domain, class 4, transcription factor 1 (Pou4f1), with C- terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR225368 representing NM_011143 Red=Cloning site Green=Tags(s)
	MMSMNSKQPHFAMHPTLPEHKYPSLHSSSEAIRRACLPTPPLQSNLFASLDETLLARAEALAAVDIAVSQ GKSHPFKPDATYHTMNSVPCTSTSTVPLAHHHHHHHHHQALEPGDLLDHISSPSLALMAGAGGAGAAGGG GGAHDGPGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	43.2 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:	<u>NP 035273</u>



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	Pou4f1 (NM_011143) Mouse Recombinant Protein – TP525368
Locus ID:	18996
UniProt ID:	<u>P17208</u>
RefSeq Size:	3801
Cytogenetics:	14 E2.3
RefSeq ORF:	1263
Synonyms:	Brn-3; Brn-3.0; Brn3; Brn3.0; Brn3a; E130119J07Rik
Summary:	Multifunctional transcription factor with different regions mediating its different effects (PubMed:10640682, PubMed:8621561, PubMed:9694219, PubMed:9722627). Acts by binding (via its C- terminal domain) to sequences related to the consensus octamer motif 5'-ATGCAAAT-3' in the regulatory regions of its target genes (PubMed:8621561, PubMed:17668438). Regulates the expression of specific genes involved in differentiation and survival within a subset of neuronal lineages. It has been shown that activation of some of these genes requires its N-terminal domain, maybe through a neuronal-specific cofactor (PubMed:12934100). Ativates BCL2 expression and protects neuronal cells from apoptosis (via the N-terminal domain) (PubMed:9722627). Induces neuronal process outgrowth and the coordinate expression of genes encoding synaptic proteins (PubMed:8972215). Exerts its major developmental effects in somatosensory neurons and in brainstem nuclei involved in motor control. Stimulates the binding affinity of the nuclear estrogene receptor ESR1 to DNA estrogen response element (ERE), and hence modulates ESR1-induced transcriptional activity (PubMed:9448000). May positively regulate POU4F2 and POU4F3 (PubMed:8876243). Regulates dorsal root ganglion sensory neuron specification and axonal projection into the spinal cord (PubMed:22326227). Plays a role in TNFSF11-mediated terminal osteoclast differentiation (PubMed:17668438). Negatively regulates its own expression interacting directly with a highly conserved autoregulatory domain surrounding the transcription initiation site (PubMed:12441296).[UniProtKB/Swiss-Prot Function]

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