

## Product datasheet for **TP321645L**

### **BRN4 (POU3F4) (NM\_000307) Human Recombinant Protein**

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant protein of human POU class 3 homeobox 4 (POU3F4), 1 mg

**Species:** Human

**Expression Host:** HEK293T

**Expression cDNA Clone** >RC221645 representing NM\_000307

**or AA Sequence:** **Red**=Cloning site **Green**=Tags(s)

MATAASNYPYSILSSTSLVHADSAGMQQGSPFRNPQKLLQSDYLQGVPSNGHPLGHHWVTSLSDDGGPWSST  
LATSPLDQQDVKPGREDLQLGAIHHRSPhVAHHSPHTNHPNAWGASPAPNPSITSSGQPLNVYSQPGFT  
VSGMLEHGGLTPPPAAASAQSLHPVLRPPDHGELGSHHCQDHSDEETPTSDELEQFAKQFKQRRIKLGF  
TQADVGLALGTLYGNVFSQTTICRFEGLQLSFKNMCKLKPLLKNWLEEADSSTGSPTSIDKIAAQGRKRK  
KRTSIEVSVKGVLETHFLKCPKAAQEISSLADSLQLEKEVVRVWFCNRRRQKEKRMTPPGDQQPHEVYSH  
TVKTDTSCHDL

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

**Predicted MW:** 39.2 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

**Preparation:** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**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.

**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\\_000298](#)

**Locus ID:** 5456



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UniProt ID: [P49335](#), [A0A2R8Y739](#)

RefSeq Size: 1481

Cytogenetics: Xq21.1

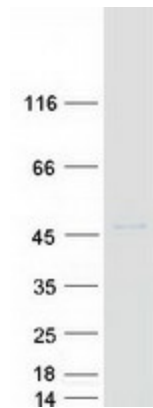
RefSeq ORF: 1083

Synonyms: BRAIN-4; BRN-4; BRN4; DFN3; DFNX2; OCT-9; OTF-9; OTF9

**Summary:** This gene encodes a member of the POU-III class of neural transcription factors. This family member plays a role in inner ear development. The protein is thought to be involved in the mediation of epigenetic signals which induce striatal neuron-precursor differentiation. Mutations in this gene are associated with X chromosome-linked nonsyndromic mixed deafness. [provided by RefSeq, Dec 2012]

**Protein Families:** Druggable Genome, Transcription Factors

### Product images:



Coomassie blue staining of purified POU3F4 protein (Cat# [TP321645]). The protein was produced from HEK293T cells transfected with POU3F4 cDNA clone (Cat# [RC221645]) using MegaTran 2.0 (Cat# [TT210002]).