

## Product datasheet for **SC300044**

### BRN4 (POU3F4) (NM\_000307) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** BRN4 (POU3F4) (NM\_000307) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** BRN4  
**Synonyms:** BRAIN-4; BRN-4; BRN4; DFN3; DFNX2; OCT-9; OTF-9; OTF9  
**Mammalian Cell Selection:** None  
**Vector:** [pCMV6-XL5](#)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_000307 edited  
GCCACCATGGCCACAGCTGCCTCGAATCCCTACAGCATTCTCAGTTCCACCTCCCTAGTC  
CATGCGGACTCTGCGGGCATGCAGCAGGGGAGTCCTTTCCGCAACCCTCAGAACTTCTC  
CAAAGTGATTACTTGACAGGGAGTTCCAGCAATGGGCATCCCCTCGGGCATCACTGGGTG  
ACCAGTCTGAGCGACGGGGGCCATGGTCTCCACACTGGCCACCAGCCCCCTGGACCAG  
CAGGACGTGAAGCCCGGGCGCAAGACCTGCAACTGGGTGCGATCATCCATCACCCTCG  
CCACACGTAGCCACCACTCACCGCACACTAACCACCCCAACGCCTGGGGGCCAGCCCG  
GCACCGAACCCTCTATCACGTCAAGCGGCCAACCCTCAACGTGTACTCGCAGCCTGGC  
TTCACCGTGAGCGGCATGCTGGAACACGGGGACTCACCCACCTCCAGCTGCCGCCTCT  
GCACAGAGCCTGCACCCGGTCTCCGAGAGCCCCGGATCACGGCGAACTGGGCTCGCAC  
CATTGCCAGGATCACTCCGACGAGGAGACGCCAACCTCTGATGAGTTGGAACAGTTGCC  
AAACAATCAAACAAGAAGAATCAAGTTGGGCTTACGCAAGCCGACGTGGGGTTGGCG  
CTGGGCACACTGTATGGTAACGTGTTCTCGCAGACCACCTCTGCAGTTTGAAGCTTG  
CAGCTGAGCTTCAAAAATATGTGCAAGCTGAAGCCCTGCTGAACAAGTGGCTGGAGGAG  
GCGGATTCGTCCACAGGGAGCCCGACCAGCATTGACAAGATCGCTGCACAGGGCCGCAAG  
CGCAAGAAGCGGACCTCCATCGAGGTGAGTGTCAAGGGCGTACTGGAGACGCATTTCTC  
AAGTGTCCAAGCCTGCCGCGCAGGAGATCTCCTCGTGGCAGACAGCCTCCAGTTGGAG  
AAGGAAGTGGTGCCTGTCTGGTTCTGTAATCGAAGACAAAAGAGAAAAGAATGACTCCG  
CCAGGGGATCAGCAGCCGCATGAGGTTTATTTCGCACACCGTGAACACAGACACATCTTGC  
CATGATCTCTGA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_000307  
**Insert Size:** 1100 bp



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<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_000307.1</a></u> , <u><a href="#">NP_000298.1</a></u>
<b>RefSeq Size:</b>	1481 bp
<b>RefSeq ORF:</b>	1086 bp
<b>Locus ID:</b>	5456
<b>UniProt ID:</b>	<u><a href="#">P49335</a></u>
<b>Cytogenetics:</b>	Xq21.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	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]