

## Product datasheet for **MC215961**

### **Pou3f2 (NM\_008899) Mouse Untagged Clone**

#### **Product data:**

|                    |   |
|--------------------|---|
| Product Type:      | Expression Plasmids   |
| Product Name:      | Pou3f2 (NM_008899) Mouse Untagged Clone                       |
| Tag:               | Tag Free  |
| Symbol:            | Pou3f2  |
| Synonyms:          | 9430075J19Rik; A230098E07Rik; Brn-2; Brn2; oct-7; OTF-7; Otf7 |
| Vector:            | pCMV6-Entry (PS100001)  |
| E. coli Selection: | Kanamycin (25 ug/mL)  |
| Cell Selection:    | Neomycin  |



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**Fully Sequenced ORF:** >MC215961 representing NM\_008899  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGACCGCAGCGTCTAACCTACAGCCTGCTCACCTCCAGCGCCTCCATCGTACATGCCGAGCCGC  
 CTGGCGGCATGCAGCAGGGCGCAGGGGGCTACCGCGAGGCGCAGAGCCTGGTGCAGGGCGACTACGGCGC  
 GCTGCAGAGCAACGGGCACCCGCTCAGCCACGCTCACCAGTGGATCACCGCGCTGTCCACGGCGGGCGG  
 GGCGGGGGCGGGCGGGCGGTGGAGGAGGGGGAGGCGGGGGAGGCGGGGACGGCTCCCCGTGGT  
 CCACCAGCCCCCTAGGCCAGCCGACATCAAGCCCTCGGTGGTGGTACAGCAGGGTGGCCGAGGCGACGA  
 GCTGCACGGGCCAGGAGCGCTGCAGCAACAGCATCAACAGCAACAGCAACAGCAGCAGCAGCAGCAGCAG  
 CAGCAGCAGCAGCAACAGCAGCAGCAACAACAGCGACCGCCACATCTGGTGCACCAGCTGCCAACCACC  
 ATCCCGGGCCCGGGCATGGCGGAGTGGCGGGTGCAGCTCACCTCCCTCCCTCCATGGGAGCTTCCAA  
 CGGCGGTTTGCTCTATTCGAGCCGAGCTTACGGTGAACGGCATGCTGGGCGCAGGAGGCGAGCCGGCT  
 GGCTGCACCACCACGGCCTGAGGGACGCCACGATGAGCCACACCATGCAGACCACCACCGCATCCGC  
 ACTCTACCCACACCAGCAACCGCCCCGCCACCTCCCCACAAGGCCACCAGGGCCACCAGGCGCGCA  
 CCACGACCCGCACTCGGACGAGGACACGCCGACCTCAGACGACCTGGAGCAGTTCGCAAGCAATTAAG  
 CAGAGGCGGATCAAACCTCGGATTTACTCAAGCAGACGTGGGGCTGGCGCTTGGCACCCCTGTACGGCAACG  
 TGTTCTCGCAGACCACCTCTGCAGTTTGAGGCCCTGCAGCTGAGCTTCAAGAACATGTGAAGCTGAA  
 GCCTTTGTTGAACAAGTGGTTGGAAGAGGAGACTCATCTCGGGCAGCCCCACCAGCATAGACAAGATC  
 GCAGCGCAAGGGCGCAAACGGAAAAAGCGGACCTCCATCGAGGTGAGCGTCAAGGGGGCTCTGGAGAGCC  
 ATTTCTCAAATGCCCTAAGCCCTCGGCCAGGAGTACCTCCCTCGCGGACAGCTTACAGCTGGAGAA  
 GGAGTGGTGAGAGTTTGGTTTTGTAACAGGAGACAGAAAGAGAAAAGGATGACCCCTCCCGGAGGGACT  
 CTGCCGGGCGCCGAGGATGTGTATGGGGTAGTAGGGACACGCCACCACACCACGGGGTGCAGACGCCCG  
 TCCAGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_008899

**Insert Size:** 1338 bp

**OTI Disclaimer:** 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).

**Components:** 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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM\\_008899.2](#), [NP\\_032925.1](#)

RefSeq Size: 6272 bp

RefSeq ORF: 1338 bp

Locus ID: 18992

UniProt ID: [P31360](#)

Cytogenetics: 4 9.73 cM

**Gene 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]