

Product datasheet for **RC215694**

POU3F3 (NM_006236) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POU3F3 (NM_006236) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POU3F3
Synonyms:	brain-1; BRN1; oct-8; OTF8; SNIBFIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC215694 ORF sequence, **codon optimized**.
 Due to the complexity of NM_006236, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**

ATGGCGACTGCTGCTAGTAACCCATACCTCCCGAAACAGTCTGCTGGCGGCCGGATCAATTGTACATAGTATGCAGCCGGCGCTGGTGGCGGGGAGGTGGGGCGGTGGGGGGGGGAGGAGGTGCCGGCGCGCGCGGGTGGGATGCAGCCGGATCCGCAGCCGTCACCTCCGGGCATATAGAGGAGATCCCTCTAGTGTCAAGATGGTGCAGAGCGACTTTATGCAGGGCGCTATGGCTGCCTCAAACGGTGGGCACATGCTCTCTCATGCTCATCAGTGGGTGACCGCTCTCCCCACGCAGCCGCTGCCGCCGCGGCCCGCGGCTGCCGCTGTCTGAGCAAGCTCACCTGGAGCGGTAGCGCAGTTGGCATGGCTGGCTCTCCACAGCAACCTCCTCAGCCCCCCCCCCCCCAAGGGCCAGATGTCAAGGGCGCGGGGAGAGACGACCTCCACGCTGGGACAGCCCTGCACCACCGGGTCCCCCACCTGGGCCCTCTCCACCTCCACCCATCAGGGTACCCCCGGCGGGTGGGTGCTGCCGCTGCAGCCGAGCTGCCGAGCAGCAGCCGCTGCCGCGGCCACCTTCTTCCATGGCTGGTGGCCAGCAACCCCTCCACAATCTCTGTTGTACAGCCAGCCGGGGGGTTTACAGTAAACGGAATGTGAGCGCACCTCCGGGCCCGGAGGAGGAGGGGGCGGTGCCGGTGGGGTGCACAGTCTCTGGTGCATCCGGGGCTGGTCAGGGCGATACGCTGAGCTGGCAGAATCATCATCACCACCACCGCTCACCCACCCCCGACCCCATCATGCACAAGGGCCTCCCACACGAGGTGGCGGAGGTGGAGCCGGTCCCGGGCTGAATAGCCATGACCCGCACTCTGATGAGGACACCCACCTCCGACGATCTTGAGCAATTTGCAAAAGCAGTTCAAGCAGCGCGAATTAATTTGGGATTCACACAAGCCGACGTGGGCTCGCACTGGGCACCCTGTACGGCAACGTTTTTCTCAGACCACTATCTGTCGCTTTGAAGCCTGCAGCTGTCTTCAAGAATGTGCAAACTAAGCCACTCTCAATAAGTGGCTGGAGGAAGCGGATTCATCCACGGTTCTCTACAAGCATCGCAAAATCGCTGCACAGGGACGGAAGCGAAAAAACGGACCTCAATCGAAGTATCTGTAAGGGAGCTCTGGAAAGCCATTTCTCAAATGCCGAAACCGAGCGCCAGGAGATAACCAACCTGGCAGACAGTCTGAGCTCGAGAAGGAGTGTTCGGGTTTGGTTTTGTAATCGCAGGCAGAAAGAGAAGCGGATGACTCCACAGGCATCCAGCAACAGACTCCCGATGATGTCTACTCCAGGTAGGACTGTTTCCGCCGACCCCGCCCCACATCACGGCCTCCAGACATCCGTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC215694 representing NM_006236
 Red=Cloning site Green=Tags(s)

MATAASNPYLPGNSLLAAGSIVHSDAAGAGGGGGGGGGGGAGGGGGMPPGSAAVTSGAYRGPDPSSVKMVQSDFMQGAMAASNGGHMLSHAHQWVTALPHAAAAAAAAAAAAAVEASSPWGSAVGMAGSPQPPQPPPPPPQGPVKGGRDDLHAGTALHHRGPPHLGPPPPPHQHPGGWAAAAAAAAAAAAAAAAAHLPSMAGGQPPPPQSLLYSQPGFTVNGMLSAPPGPGGGGGAGGGAQSLVHPGLVRGDTPELAEHHHHHHHHAHPHPPPHHAQGPPIHGGGGGAGPGLNSHDPHSDPTPTSDLEQFAKQFKQRRIKLGFTQADVGLALGTLYGNVFSQTTICRFEALQLSFKNMCKLKPLLNKWLLEADSSTGSPTSIDKIAAQGRKRKRRTSIEVSVKGALESHFLKCPKPSAQEITNLADSLQLEKEVVRVWFENRRQKEKRMTPPGIQQQTPDDVYSQVGTVSADTPPHHGLQTSVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_006236

ORF Size: 1500 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_006236.1](#), [NM_006236.2](#), [NP_006227.1](#)

RefSeq Size: 4525 bp

RefSeq ORF: 1503 bp

Locus ID: 5455

UniProt ID: [P20264](#)

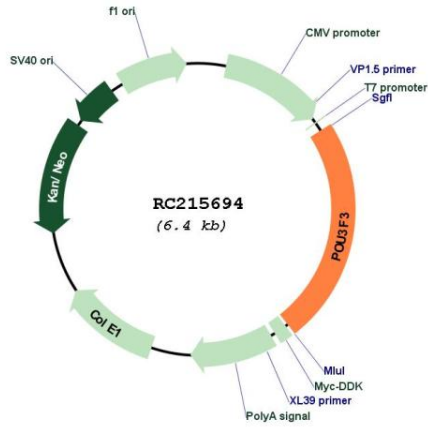
Cytogenetics: 2q12.1

Protein Families: Transcription Factors

MW: 50.3 kDa

Gene Summary: This gene encodes a POU-domain containing protein that functions as a transcription factor. The encoded protein recognizes an octamer sequence in the DNA of target genes. This protein may play a role in development of the nervous system. [provided by RefSeq, Apr 2015]

Product images:



Circular map for RC215694