

Product datasheet for **RG215694**

POU3F3 (NM_006236) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POU3F3 (NM_006236) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POU3F3
Synonyms:	brain-1; BRN1; oct-8; OTF8; SNIBFIS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG215694 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**

ATGGCGACTGCTGCTAGTAACCCATACCTCCCGAAACAGTCTGCTGGCGGCCGGATCAATTGTACATAGTATGCAGCCGGCGCTGGTGGCGGGGAGGTGGGGCGGTGGGGGGGGGAGGAGGTGCCGGCGCGCGCGGGTGGGATGCAGCCGGATCCGCAGCCGTCACCTCCGGGCATATAGAGGAGATCCCTCTAGTGTCAAGATGGTGCAGAGCGACTTTATGCAGGGCGCTATGGCTGCCTCAAACGGTGGGCACATGCTCTCTCATGCTCATCAGTGGGTGACCGCTCTCCCCACGCAGCCGCTGCCGCCGCGGCCCGCGGCTGCCGCTGTGCAAGCAAGCTCACCTGGAGCGGTAGCGCAGTTGGCATGGCTGGCTCTCCACAGCAACCTCCTCAGCCCCCCCCCCCCCAAGGGCCAGATGTCAAGGGCGCGGGGAGAGACGACCTCCACGCTGGGACAGCCCTGCACCACCGGGTCCCCCACCTGGGCCCTCCTCCACCTCCACCCATCAGGGTACCCCCGGCGGGTGGGTGCTGCCGCTGCAGCCGAGCTGCCGAGCAGCAGCCGCTGCCGCGGCCACCTTCTTCCATGGCTGGTGGCCAGCAACCCCTCCACAATCTCTGTTGTACAGCCAGCCGGGGGTTTACAGTAAACGGAATGTGAGCGCACCTCCGGGCCCGGAGGAGGGGGCGGTGCCGTTGGGGTGCACAGTCTCTGGTGCATCCGGGGTGGTCAGGGCGATACGCTGAGCTGGCAGAATCATCATCACCACCACGCTCACCCACCCCCGACCCCATCATGCACAAGGGCCTCCCACACGAGGTGGCGGAGGTGGAGCCGGTCCCGGGCTGAATAGCCATGACCCGCACTCTGATGAGGACACCCACCTCCGACGATCTTGAGCAATTTGCAAAAGCAGTTCAAGCAGCGCGAATTAATTTGGGATTCACACAAGCCGACGTGGGCTCGCACTGGGCACCCTGTACGGCAACGTTTTTCTCAGACCACTATCTGTCGCTTTGAAGCCTGCAGCTGTCTTCAAGAATGTGCAAACTAAGCCACTCCTCAATAAGTGGCTGGAGGAAGCGGATTCATCCACGGTTCTCCTACAAGCATCGCAAAATCGCTGCACAGGGACGGAAGCGAAAAAACGGACCTCAATCGAAGTATCTGTAAGGGAGCTCTGGAAAGCCATTTCTCAAATGCCGAAACCGAGCGCCAGGAGATAACCAACCTGGCAGACAGTCTGAGCTCGAGAAGGAGTTGTTTCGGTTTTGTTTGTAAATCGCAGGCAGAAAGAGAAGCGGATGACTCCACAGGCATCCAGCAACAGACTCCCGATGATGTCTACTCCAGGTAGGACTGTTTCCGCCGACCCCCGCCCCACATCACGGCCTCCAGACATCCGTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG215694 representing NM_006236
 Red=Cloning site Green=Tags(s)

MATAASNPYLPGNSLLAAGSIVHSDAAGAGGGGGGGGGGGGAGGGGGMPPGSAAVTSGAYRGPSSV
 KMQSDFMQGAMAASNGGHMLSHAHQWVTALPHAAAAAAAAAAAAVEASSPWSGSVGMAGSPQQPPQPP
 PPPPQPDVKGAGRDDLHAGTALHHRGPPHLGPPPPPHQHPGGWAAAAAAAAAAAAAHLPSMA
 GGQPPPQSLLYSQPGFTVNGMLSAPPGPGGGGGAGGGAQSLVHPGLVRGDTPELAEHHHHHHHAHP
 HPPPHHAQPPHHGGGGGAGPLNSHDPHSDPTSDLEQFAKQFKQRRRIKLGFTQADVGLALGTL
 YGNVFSQTTICRFEALQLSFKNMCKLKPLLNKWLLEADSSTGSPTSIDKIAAQGRKRKRRTSIEVSVKGA
 LESHFLKCPKPSAQEITNLADSLQLEKEVVRVWFENRRQKEKRMTPPGIQQQTPDDVYSQVGTVSADTPP
 PHHGLQTSVQ

TRTRPLE - GFP Tag - V

Restriction Sites:

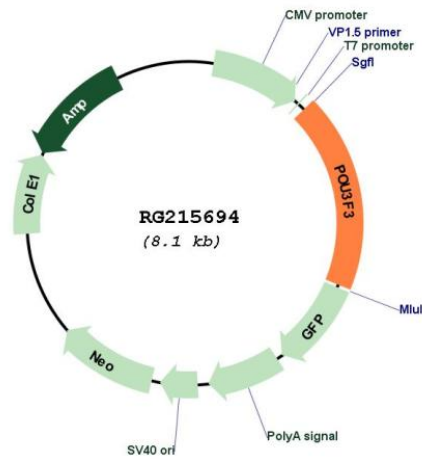
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



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:	<ol style="list-style-type: none">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 , NP_006227.1
RefSeq Size:	4525 bp
RefSeq ORF:	1503 bp
Locus ID:	5455
UniProt ID:	P20264
Cytogenetics:	2q12.1
Protein Families:	Transcription Factors
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]