

Product datasheet for **MG226821**

Pou3f3 (NM_008900) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou3f3 (NM_008900) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pou3f3
Synonyms:	Brn-1; Brn1; HST011; Otf8; Skin1; urehr2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226821 representing NM_008900
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCACGGCGGCTTCTAACCCCTACCTGCCGGGAACAGCCTGCTCACGGCCGGCTCCATTGTGCACT
 CGGACCGCGCCGGGGCGGCGCGCGGAGGGGGCGGCGCGCGCGCGCGGGGGCGGGGGCGGCGG
 CGGCGGCATGCAGCCGGGAAGCGCCGCCGTGACCTCGGGCGCCTACCGGGGGGACCCGTCCTCGGTCAAG
 ATGGTCCAGAGCGACTTCATGCAGGGGGCCATGGCCGCCAGCAACGGCGGCCATATGCTGAGCCACGCGC
 ACCAGTGGGTACCGCCCTGCCACGCTGCCGCCGCTGCCGCCGCTGCTGCCGCCGCTGCCGTGGAAGC
 CAGCTCACCGTGGTGGGCAGTGCAGTGGGCATGGCCGGCAGCCCCAGCAGCCGCCACAGCCGCCGCC
 CCGCCGCTCAGGGCCCCGACGTGAAGGGAGGCGCTGGACCGAAGACCTGCACGCCGTACCGCGCTGC
 ATCACCGCGACCGCCACCTCGGCCCCCGCCGCCCCCTACCAAGGACACCTGGGGGCTGGGG
 GGCCGACCGCGCCGCGCTGCCGCCGAGCCGCCCGCTGCCGCTCACCTCCGTCATGGCGGGT
 GGCAGCAGCCGCGCCGAGAGTCTGCTGTACTCGCAGCCCGAGGCTTACCGTGAACGGCATGCTGA
 GCGCGCCCCGGGGCCGGCGGTGGCGCGGTGGAGCGGGCGGTGGAGCCAGAGCCTGGTTACCCCGG
 GCTAGTGCAGGGGACACGCCCGAGTTGGCGGAGCATCATCACCACCATCACCACCACGCGCACCCGCAC
 CCGCCGACCCCGACACGCGCAGGACCCCGCATCACGGCGCGGGCGCGGGGCCAGGGCTCAACA
 GCCACGACCTCACTCGGACGAGGACACGCCGAGCTGACGACCTGGAGCAGTTCGTAAGCAGTTCAA
 ACAGCGGCGCATCAAGCTGGGTTTACCCAGGGGAGCTGGGGCTGGCTTGGGTACGCTCTATGGCAAC
 GTGTTCTCGCAGACCACTATCTGCCGCTCGAGGCCCTGCAGCTCAGTTCAAGAATATGTCAAGCTCA
 AGCCGCTACTGAACAAGTGGCTGGAGGAGGCTGACTCGAGCACTGCAGTCCCACCAGCATTGACAAGAT
 CGCAGCGCAGGGCCGCAAGCGCAAGAAGCGGACCTCCATCGAGGTTAGCGTCAAAGGCGCGCTGGAGAGC
 CACTTCTCAAGTGCCTAAACCCTCGGCGCAGGAAATCACAACCTGGCCGACAGCCTACAGCTGGAAA
 AGGAGGTCGTGCGGGTCTGGTTCTGCAACCAGCCAAAAGGAAAAACGCATGACGCCCCCTGGCATCCA
 GCAGCAGACCGGACGATGTCTACTCGCAGGTGGGTACCGTGAGCGCTGACACCCGCCACCGCACCCAC
 GGGCTTCAGACCAGCGTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226821 representing NM_008900
 Red=Cloning site Green=Tags(s)

MATAASNPYLPGNLLTAGSIVHSDAAGAGGGGGGGGGGGAGGGGGMPPGSAAVTSGAYRDPSSVK
 MVQSDFMQGAMAASNGGHMLSHAHQWVTALPHAAAAAAAAAAAAVEASSPWSGSAVGMAGSPQPPQPPP
 PPPQGPVKGAGREDLHAGTALHHRGPPHLGPPPPPHQGHPPGWGAAAAAAAAAAAAAHLPSMAG
 GQPPPPQSLLYSQPGGFTVNGMLSAPPGGGGGGAGGGAQSLVHPGLVRGDTPELAEHHHHHHHHHAPH
 PPHPHHAQGPPHHGGGAGPGLNSHDPHSDPTSDLEQFAKQFKRRRIKLGFTQADVGLALGTYGN
 VFSQTTICRFEALQLSFKNMCKLKPLLNKWLEEADSSTGSPTSIDKIAAQGRKRKRKRSIEVSVKGALES
 HFLKCPKPSAQEITNLADSLQLEKEVVRVWFNRRQKEKRMTPPGIQQQTPDDVYSQVGTVSADTPPHH
 GLQTSVQ

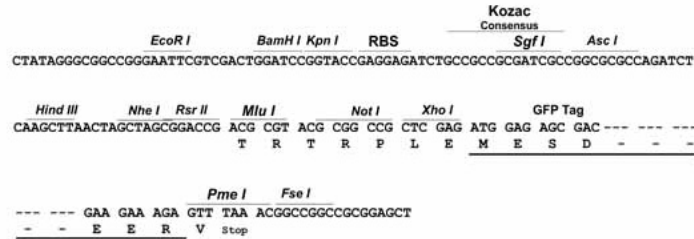
TRTRPLE - GFP Tag - V

Restriction Sites:

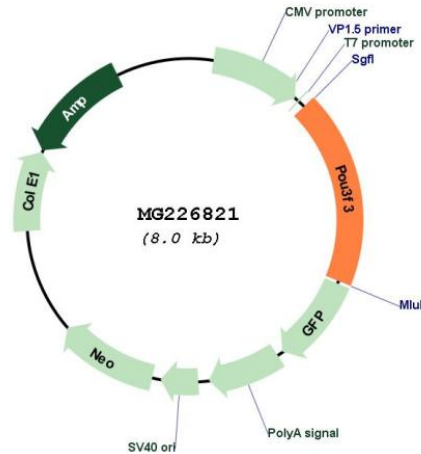
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_008900

ORF Size: 1491 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_008900.3](#)

RefSeq Size: 3080 bp

RefSeq ORF: 1494 bp

Locus ID: 18993

UniProt ID: [P31361](#)

Cytogenetics: 1 21.21 cM

Gene Summary: Transcription factor that acts synergistically with SOX11 and SOX4 (By similarity). Plays a role in neuronal development. Is implicated in an enhancer activity at the embryonic met-mesencephalic junction; the enhancer element contains the octamer motif (5'-ATTTGCAT-3'). [UniProtKB/Swiss-Prot Function]