

Product datasheet for **MG225266**

Pou3f2 (NM_008899) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou3f2 (NM_008899) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Pou3f2
Synonyms:	9430075J19Rik; A230098E07Rik; Brn-2; Brn2; oct-7; OTF-7; Otf7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225266 representing NM_008899
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGACCGCAGCGTCTAACACTACAGCCTGCTCACCTCCAGCGCCTCCATCGTACATGCCGAGCCGC
 CTGGCGGCATGCAGCAGGGCGCAGGGGGCTACCGCAGGCGCAGAGCCTGGTGCAGGGCGACTACGGCGC
 GCTGCAGAGCAACGGGCACCCGCTCAGCCACGCTCACCAGTGGATCACCGCGCTGTCCACGGCGGCGGC
 GGCGGGGGCGGGCGCGGTGGAGGAGCGGGGAGGCGGGGGAGGCGGGGACGGCTCCCCGTGGT
 CCACCAGCCCCCTAGGCCAGCCGACATCAAGCCCTCGGTGGTGGTACAGCAGGGTGGCCGAGGCGACGA
 GCTGCACGGGCCAGGAGCGCTGCAGCAACAGCATCAACAGCAACAGCAACAGCAGCAGCAGCAGCAGCAG
 CAGCAGCAGCAGCAACAGCAGCAGCAACAACAGCGACCGCCACATCTGGTGCACCAGCTGCCAACCACC
 ATCCCGGGCCCGGGCATGGCGGAGTGGCGGGTGCAGCTCACCTCCCTCCCTCCATGGGAGCTTCCAA
 CGGCGGTTTGCTCTATTCGACGCGAGCTTCACGGTGAACGGCATGCTGGGCGCAGGAGGCGAGCCGGCT
 GGCTGCACCACCACGGCCTGAGGGACGCCACGATGAGCCACACCATGCAGACCACCACCCGCATCCGC
 ACTCTACCCACACCAGCAACCGCCCCGCCACCTCCCCCACAAGGCCACCAGGGCCACCAGGCGCGCA
 CCACGACCCGCACTCGGACGAGGACACGCCGACCTCAGACGACCTGGAGCAGTTCGCAAGCAATTAAG
 CAGAGGCGGATCAAACCTCGGATTTACTCAAGCAGACGTGGGGCTGGCGCTTGGCACCCCTGTACGGCAACG
 TGTTCTCGCAGACCACCTCTGCAGTTTGAAGGCCCTGCAGCTGAGCTTCAAGAACATGTGCAAGCTGAA
 GCCTTTGTTGAACAAGTGGTTGGAAGAGGAGACTCATCTCGGGCAGCCCCACCAGCATAGACAAGATC
 GCAGCGCAAGGGCGCAAACGGAAAAAGCGGACCTCCATCGAGGTGAGCGTCAAGGGGGCTCTGGAGAGCC
 ATTTCTCAAATGCCCTAAGCCCTCGGCCAGGAGATCACCTCCCTCGCGGACAGCTTACAGCTGGAGAA
 GGAGGTGGTGAAGTTTGGTTTGTAAACAGGAGACAGAAAGAGAAAAGGATGACCCCTCCCGGAGGGACT
 CTGCCGGCGCCGAGGATGTGTATGGGGTAGTAGGGACACGCCACCACACCACGGGGTGCAGACGCCCG
 TCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG225266 representing NM_008899
 Red=Cloning site Green=Tags(s)

MATAASNHYSLLTSSASIVHAEPGGMQQGAGGYREAQSLVQGDYDALQSNHPLSHAHQWITALSHGGG
 GGGGGGGGGGGGGGGGGDGPWSTSPLGQPDIKPSVVVQQGGRGDELHGPGALQQHQQQQQQQQQQQ
 QQQQQQQQQQRPPHLVHHAANHHPPGPAWRSAAAAAHLPPSMGASNGLLYSQPSFTVNGMLGAGGQPA
 GLHHHGLRDAHDEPHHADHHPHSHPHQPPPPPPPPGPPGHPGAHHDHPSDEDTPTSDDLQFAKQFK
 QRRIKLGFQADVGLALGTLYGNVFSQTTICRFEALQLSFKNMCKLKPILLNKWLEEDSSSGSPTSIDKI
 AAQGRKRKRRTSIEVSVKGALESHFLKCPKPSAQEITSLADSLQLEKEVVRVWFENRRQKEKRMTPPGGT
 LPGAEDVYGGSRDTPPHHGVTQPVQ

TRTRPLE - GFP Tag - V

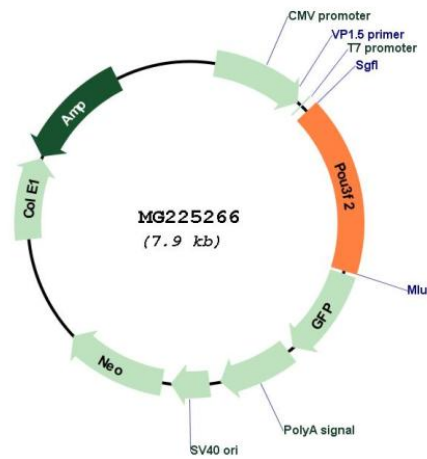
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_008899

ORF Size: 1335 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:	<u>NM_008899.2</u> , <u>NP_032925.1</u>
RefSeq Size:	1338 bp
RefSeq ORF:	1338 bp
Locus ID:	18992
UniProt ID:	<u>P31360</u>
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]