

Product datasheet for **MR225266**

Pou3f2 (NM_008899) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR225266 representing NM_008899
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

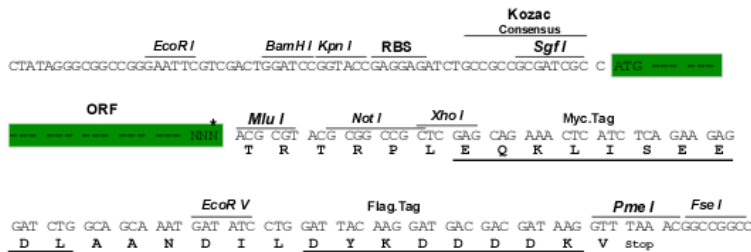
ATGGCGACCGCAGCGTCTAACACTACAGCCTGCTCACCTCCAGCGCCTCCATCGTACATGCCGAGCCGC
 CTGGCGCATGCAGCAGGGCGCAGGGGGCTACCGCAGGGCGCAGAGCCTGGTGCAGGGCGACTACGGCGC
 GCTGCAGAGCAACGGGCACCCGCTCAGCCACGCTCACCAGTGGATCACCGCGCTGTCCACGGCGCGCGG
 GGCGGGGGCGGGCGCGGTGGAGGAGCGGGGAGGCGGGGGAGGCGGGGACGGCTCCCCGTGGT
 CCACCAGCCCCCTAGGCCAGCCGACATCAAGCCCTCGGTGGTGGTACAGCAGGGTGGCCGAGGCGACGA
 GCTGCACGGGCCAGGAGCGCTGCAGCAACAGCATCAACAGCAACAGCAACAGCAGCAGCAGCAGCAGCAG
 CAGCAGCAGCAGCAACAGCAGCAGCAACAACAGCGACCCACATCTGGTGCACCAGCTGCCAACCACC
 ATCCCGGGCCCGGGCATGGCGGAGTGCGGCGGCTGCAGCTCACCTCCCTCCCTCCATGGGAGCTTCCAA
 CGGCGGTTTGCTCTATTCGACGGAGCTTACGGTGAACGGCATGCTGGGCGCAGGAGGCGAGCCGGCT
 GGCTGCACCACCACGGCCTGAGGGACGCCACGATGAGCCACACCATGCAGACCACCACCCGCATCCGC
 ACTCTACCCACACCAGCAACCGCCCCCGCCACCTCCCCACAAGGCCACCACCGGGCCACCAGGCGCGCA
 CCACGACCCGCACTCGGACGAGGACACGCCGACCTCAGACGACCTGGAGCAGTTCGCCAAGCAATTAAG
 CAGAGGCGGATCAAACCTCGGATTTACTCAAGCAGACGTGGGGCTGGCGCTTGGCACCTGTACGGCAACG
 TGTTCTCGCAGACCACCTCTGCAGTTTGAGGCCCTGCAGCTGAGCTTCAAGAACATGTGCAAGCTGAA
 GCCTTTGTTGAACAAGTGGTTGGAAGAGGACACTCATCTCGGGCAGCCCCACCAGCATAGACAAGATC
 GCAGCGCAAGGGCGCAAACGGAAAAAGCGGACCTCCATCGAGGTGAGCGTCAAGGGGGCTCTGGAGAGCC
 ATTTCTCAAATGCCCTAAGCCCTCGGCCAGGAGATCACCTCCCTCGGGACAGCTTACAGCTGGAGAA
 GGAGTGGTGAAGTGGTTTGGTTTGAACAGGAGACAGAAAGAGAAAAGGATGACCCCTCCCGGAGGGACT
 CTGCCGGCGCCGAGGATGTGTATGGGGTAGTAGGGACACGCCACCACACCACGGGGTGCAGACGCCCG
 TCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:
 Cloning Scheme:**

Sgfl-MluI

Cloning sites used for ORF Shutting:



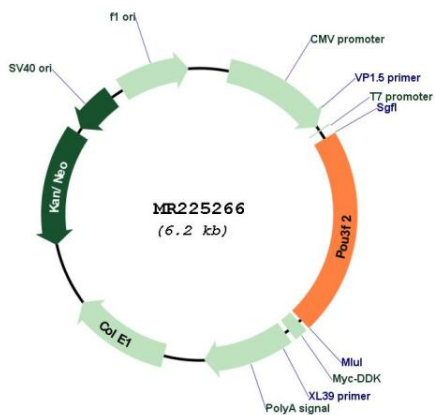
* The last codon before the Stop codon of the ORF

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:	NM_008899.2 , NP_032925.1
RefSeq Size:	1338 bp
RefSeq ORF:	1338 bp
Locus ID:	18992
UniProt ID:	P31360
Cytogenetics:	4 9.73 cM
MW:	47.6 kDa
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]

Product images:



Circular map for MR225266