

Product datasheet for **RR216726**

Pou2f2 (NM_001271204) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou2f2 (NM_001271204) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pou2f2
Synonyms:	2-Oct; Oct2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR216726 representing NM_001271204
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTTCCTCCAGCATGGGGCTCCAGAATAAGAATGTCTAAGCCCCTGGAGGCCGAGAAGCAAAGTC
 TGGACTCCCGTCAGAGCACACAGACACTGAAAGAAATGGACCCGACATTAACCATCAGAACCCCCAGAA
 CAAAGCGTCCCCATTCTCTGTGTCCCAACTGGCCCCAGCACCAAGATCAAGGCTGAAGACCCCACTGTT
 GATTCAGCCCCAGCAGCACCCCGCCCCCAGCCGGCTCAGCCTCATCTGCCAGGCCCAACTCATGT
 TGACGGGCAGCCAGCTAGCTGGGACATACAGCAACTCCTCCAGCTCCAACAGCTGGTGTGTGCCCGG
 CCACCACCTCCAGCCACCTGCTCAGTTCCTGCTGCCACAAGCGCAGCAGAGTCAGCCAGGGCTGCTACCA
 ACGCCAAATCTATTCCAGCTACCTCAGCAAACCCAGGGAGCTCTCCTGACCTCCAGCCCGGGCTGGGC
 TTCTACACAGCCCTCGAAATGCTTGGAGCCACCATCCACCCGGAGGAGCCAGTGATCTGGAGGAGCT
 GGAACAGTTTCGTCGCACCTTCAAGCAACGCCGCATCAAGCTGGGCTTACACAGGGTATGTGGGCCTG
 GCCATGGCAAGCTCTATGGCAACGACTTCAGCCAAACGACCATTTCCTCCGCTTCGAGGCCCTAACCTGA
 GCTTCAAGAACATGTGTAAGCAAGCCCTCCTGGAGAAGTGGCTCAACGACGCAGAGACTATGTCTGT
 GGATTCAGCCTACCCAGCCCAAACAGCTGAGCAGCCCCAGCCTGGGTTTCGACGGGCTGCCGGGGCGG
 AGACGCAAGAAGAGGACCAGCATCGAGACGAATGTCCGCTTCGCCTTAGAGAAGAGTTTCTAGCGAACC
 AGAAGCCTACCTCAGAGGAGATCCTGCTGATTGCAGAGCAGCTGCACATGGAAAAGGAAGTATCCGCGT
 CTGGTTCTGCAACCGGCCGAGAAGGAGAAACGCATCAACCTTGCAAGTGGGCCCCATGCTGCCAGC
 CCGGAAAAGCCGACCAGTTACAGCCCGCACCTGGTCACACCCAAAGGGGGCGCAGGAACCTTACCATTGT
 CCCAAGCTTCTAGCAGTCTGAGCACAACAGTTACTACCTTATCCTCAGCTGTGGGACACTCCACCCAG
 CCGGACAGCAGGAGGGGTGGCGGTGGGGCGGAGCCGCCCCCTCAATTCCATCCCCTCTGTCACT
 CCCCCACCCCGGCCACCACCAACAGCACAACCCGAGCCCTCAAGGCAGCCACTCGGCTATCGGCTTGA
 CGGCCTGAACCCAGCGCAGGCCCTGGCTCTGGTGAACCTGCCCTTACCAGCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216726 representing NM_001271204
 Red=Cloning site Green=Tags(s)

MVHSSMGAPEIRMSKPLEAEKQSLDSPSEHTDTERNGPDINHQNPNKASPFVSVPTGPSTKIKAEADPSG
 DSAPAAPPPQPAQPHLPQAQLMLTGSQLAGDIQQLQLQLVLVPGHHLQPPAQFLLPQAQSQPGLLP
 TPNLFQLPQQTQGALLTSQPRAGLPTQPSKCLEPPSHPEEPSDLEELQFARTFKQRRIKLGFQTQGDVGL
 AMGKLYGNDFSQTTISRFEALNLSFKNMCKLPLLEKWLNDAETMSVDSSLSPSNQLSSPSLGFGLPGR
 RRRKRTSIETNVRFALEKSFLANQKPTSEEILLIAEQLHMEKEVIRVWFNRRQKEKRINPCSAAPMLPS
 PGKPTSYSPLVTPQGGAGTLPLSQASSLSTTVTTLSSAVGTLHPSRTAGGGGGGGAAPPLNSIPSVT
 PPPPATTNSTNPSQGSASHAIGLTGLNPSAGPGLWNPAPYQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

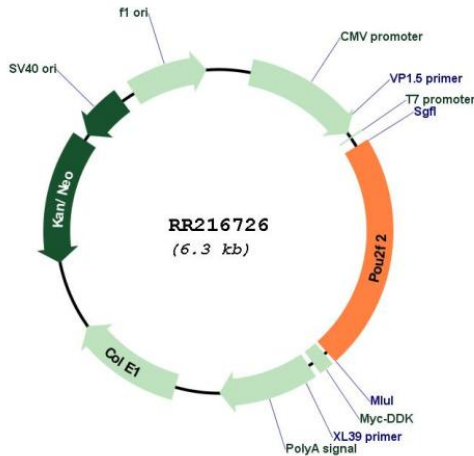
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271204

ORF Size: 1389 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_001271204.2](#), [NP_001258133.2](#)

RefSeq Size: 1875 bp

RefSeq ORF: 1392 bp

Locus ID: 117058

Cytogenetics: 1q21

MW: 49.4 kDa

Gene Summary: organic cation transporter; involved in the translocation of agmatine [RGD, Feb 2006]