

Product datasheet for **RC205330**

POU3F2 (NM_005604) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POU3F2 (NM_005604) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POU3F2
Synonyms:	brn-2; BRN2; N-Oct3; oct-7; OCT7; OTF-7; OTF7; POUF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC205330 representing NM_005604
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGACCGCAGCGTCTAACCACTACAGCCTGCTCACCTCCAGCGCCTCCATCGTGCACGCCGAGCCGC
 CCGCGGCATGCAGCAGGGCGCGGGGGGTACCGCGAAGCGCAGAGCCTGGTGCAGGGCGACTACGCGC
 TCTGCAGAGCAACGACACCCGCTCAGCCACGCTCACCAGTGGATCACCGCGCTGTCCACGGCGCGCGG
 GGCGGGGGCGGTGGCGCGCGGGGGGGCGGGGGCGCGGGGGCGCGCGGACGGCTCCCCGTGGT
 CCACCAGCCCCCTGGCCAGCCGGACATCAAGCCCTCGGTGGTGGTGCAGCAGGGCGCCCGGAGACGA
 GCTGCACGGGCCAGGCGCCCTGCAGCAGCAGCATCAGCAGCAGCAACAGCAACAGCAGCAGCAACAGCAG
 CAACAGCAGCAGCAGCAGCAACAGCGGCCCGCCATCTGGTGCACCACGCCGCTAACACCACCCGG
 GACCCGGGGCATGGCGGAGCGCGGGCTGCAGCGCACCTCCACCTCCATGGGAGCGTCAACGGCGG
 CTTGCTCTACTCGCAGCCAGCTTCACGGTGAACGGCATGCTGGGCGCCGGCGGGCAGCCGGCCGGTCTG
 CACCACCACGGCCTGCGGGACGGCAGCAGCAGCCACACCATGCCGACCACCACCCGACCCGCACTCGC
 ACCCACACCAGCAGCCGCGCCCGCCCGCCCGCCCGCAGGGTCCGCCTGGCCACCCAGGCGCGCACCA
 CCCGCACTCGGACGAGGACACGCCGACCTCGGACGACCTGGAGCAGTTCGCCAAGCAGTTCAAGCAGCG
 CGGATCAAAGTGGGATTTACCAAGCGGACGTGGGGCTGGCTCTGGGCACCCTGTATGGCAACGTGTTCT
 CGCAGACCACCATCTGCAGGTTTGGAGCCCTGCAGCTGAGCTTCAAGAACATGTGCAAGCTGAAGCCTTT
 GTTGAACAAGTGGTTGGAGGAGCGGACTCGTCTCGGGCAGCCCCACGAGCATAGACAAGATCGCAGCG
 CAAGGGCGCAAGCGGAAAAAGCGGACCTCCATCGAGGTGAGCGTCAAGGGGGCTCTGGAGAGCCATTCC
 TCAAATGCCCAAGCCCTCGGCCAGGAGATCACCTCCCTCGCGGACAGTTACAGCTGGAGAAGGAGGT
 GGTGAGAGTTTGGTTTTGTAACAGGAGACAGAAAAGAGAAAAGGATGACCCCTCCCGGAGGGACTCTGCCG
 GCGCCGAGGATGTGTACGGGGGAGTAGGGACTCCACCACACCACGGGTGCAGACGCCCTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC205330 representing NM_005604
 Red=Cloning site Green=Tags(s)

MATAASNHYSLLTSSASIVHAEPGGMQGAGGYREAQSLVQGDYDALQSNHPLSHAHQWITALSHGGG
 GGGGGGGGGGGGGGGGGDGPWSTSPLGQPDIKPSVVVQGGRGDELHGPGALQQHQQQQQQQQQQQ
 QQQQQQQRPPHLVHHAANHHPPGAWRSAAAAAHLPPSMGASNGLLYSQPSFTVNGMLGAGGQPAGL
 HHHGLRDAHDEPHHADHHPHSHPHQPPPPPPPPQPPGHPGAHHDPHSDEDTPTSDLEQFAKQFKQR
 RIKLGFTQADVGLALGTLYGNVFSQTTICRFEALQLSFKNMCKLKPLLNKWL EADSSSGSPTSIDKIAA
 QGRKRKRRTSIEVSVKGALESFLKCPKPSAQEITSLADSLQLEKEVVRVWF CNRRQKEKRMTPPGTLP
 GAEDVYGGSRDTPPHHGVTQPVQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_005604

ORF Size: 1329 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_005604.4](#)

RefSeq Size: 4172 bp

RefSeq ORF: 1332 bp

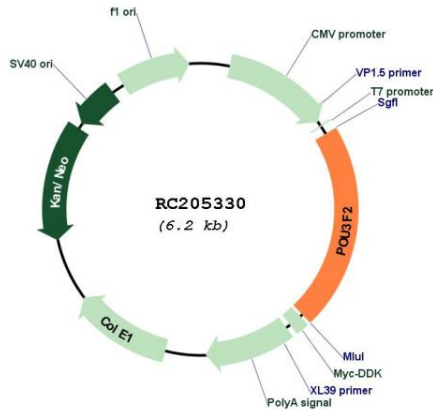
Locus ID: 5454

UniProt ID: [P20265](#)

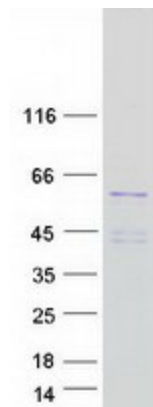
Cytogenetics: 6q16.1

Domains: POU, homeobox
Protein Families: Transcription Factors
MW: 46.7 kDa
Gene Summary: This gene encodes a member of the POU-III class of neural transcription factors. The encoded protein is involved in neuronal differentiation and enhances the activation of corticotropin-releasing hormone regulated genes. Overexpression of this protein is associated with an increase in the proliferation of melanoma cells. [provided by RefSeq, Mar 2012]

Product images:



Circular map for RC205330



Coomassie blue staining of purified POU3F2 protein (Cat# [TP305330]). The protein was produced from HEK293T cells transfected with POU3F2 cDNA clone (Cat# RC205330) using MegaTran 2.0 (Cat# [TT210002]).