

Product datasheet for **RG205330**

POU3F2 (NM_005604) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POU3F2 (NM_005604) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POU3F2
Synonyms:	brn-2; BRN2; N-Oct3; oct-7; OCT7; OTF-7; OTF7; POUF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG205330 representing NM_005604 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGACCGCAGCGTCTAACCCTACAGCCTGCTCACCTCCAGCGCCTCCATCGTGACGCCGAGCCGC
CCGGCGGCATGCAGCAGGGCGCGGGGGCTACCGCAAGCGCAGAGCCTGGTGCAGGGCGACTACGGCGC
TCTGCAGAGCAACGGACACCCGCTCAGCCACGCTCACCAGTGGATCACAGCGCTGTCCACGGCGGGCGG
GGCGGGGGCGGTGGCGGGCGGGGGGGCGGGGGCGGGCGGGGGCGGGCGCGGCGAGCGGCTCCCCGTGGT
CCACCAGCCCCCTGGGCCAGCCGACATCAAGCCCTCGGTGGTGGTGCAGCAGGGCGGCCGCGGAGACGA
GCTGCACGGGCCAGGCGCCCTGCAGCAGCAGCATCAGCAGCAGCAACAGCAACAGCAGCAGCAACAGCAG
CAACAGCAGCAGCAGCAGCAGCAACAGCGGCCGCGCATCTGGTGCACCACGCCGCTAACACCACCCGG
GACCCGGGGCATGGCGGAGCGCGCGGCTGCAGCGCACCTCCCACCCTCCATGGGAGCGTCCAACGGCGG
CTTGCTCTACTCGCAGCCAGCTTACGGTGAACGGCATGCTGGGCGCCGGCGGGCAGTCGGCCGGGCTG
CACCACCAGGCCCTGCGGGACGCGCAGCAGGACACACCATGCCGACCACCCCGCACCCTGACTCGC
ACCCACACCAGCAGCCGCCCCCGCCCGCCCGCAGGGTCCGCTGGCCACCCAGGCGCGCACCACGA
CCCGCACTCGGACGAGGACACCCGACCTCGGACGACCTGGAGCAGTTCGCCAAGCAGTTCAAGCAGCGG
CGGATCAAACCTGGGATTTACACAAGCGGACGTGGGGCTGGCTCTGGGCACCCTGTATGGCAACGTGTTCT
CGCAGACCACCATCTGCAGGTTTGAGGCCCTGCAGCTGAGCTTCAAGAACATGTGCAAGCTGAAGCCTTT
GTTGAACAAGTGGTTGGAGGAGGCGGACTCGTCTCGGGCAGCCCCACGAGCATAGACAAGATCGCAGCG
CAAGGGCGCAAGCGGAAAAAGCGGACCTCCATCGAGGTGAGCGTCAAGGGGGCTCTGGAGAGCCATTTCC
TCAAATGCCCAAGCCCTCGGCCAGGAGATCACCTCCCTCGCGGACAGCTTACAGCTGGAGAAGGAGGT
GGTGAAGTGGTGGTGGTAAACAGGAGACAGAAAGAGAAAAGGATGACCCCTCCCGGAGGGACTCTGCCG
GGCGCCGAGGATGTGTACGGGGGAGTAGGGACACTCCACCACACCAGGGGTGCAGACGCCCGTCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG205330 representing NM_005604
 Red=Cloning site Green=Tags(s)

MATAASNHYSLLTSSASIVHAEPGGMQGAGGYREAQSLVQGDYALQSNHPLSHAHQWITALSHGGG
 GGGGGGGGGGGGGGGGSPWSTSPLGQPDIKPSVVVQGGGRDELHGPGALQQHQQQQQQQQQQ
 QQQQQQQQRPPHLVHHAANHHHPGAWRSAAAAAHLPPSMGASNGLLYSQPSFTVNGMLGAGGQSAGL
 HHHGLRDAHDEPHHADHHPHSHPHQPPPPPPPPGPPGHPGAHHDPHSDEDTPTSDDLQFAKQFKQR
 RIKLGFTQADVGLALGTLYGNVFSQTTICRFEALQLSFKNMCKLKPLLNKWLEEADSSSGSPTSIDKIAA
 QGRKRKRRTSIEVSVKGALESHFLKCPKPSAQEITSLADSLQLEKEVVRVWF CNRRQKEKRMTPGGTLP
 GAEDVYGGSRDTPPHHGVPVQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005604

ORF Size: 4105 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_005604.2](#), [NP_005595.2](#)

RefSeq Size: 4172 bp

RefSeq ORF: 1332 bp

Locus ID: 5454

UniProt ID: [P20265](#)

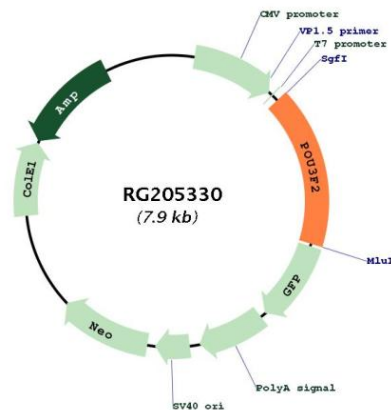
Cytogenetics: 6q16.1

Domains: POU, homeobox

Protein Families: Transcription Factors

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 RG205330