

Product datasheet for RC228288

POU5F1B (NM_001159542) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POU5F1B (NM_001159542) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POU5F1B
Synonyms:	OCT4-PG1; OCT4PG1; OTF3C; OTF3P1; POU5F1P1; POU5F1P4; POU5FLC8; POU5FLC20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC228288 representing NM_001159542 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGACACCTGGCTTCGGATTTTCGCTTCTCGCCCCCTCCAGGCGGTGGGGTGATGGCCATGGG
GGGCGGAGCCGGCTGGTTGATCCTCTGACCTGGCTAAGCTTCCAAGGCCCTCTGGAGGGCCAGGAAT
CGGGCCGGGGTTGGGCCAGGCTCTGAGGTGTGGGGATTCCCCCTTGCCCCCGCGTATGAGTTATGT
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AGCCTGAGAGCGAAGCAGGAGTCGGGTGGAGAGCAACTCCAATGGGGCCTCCCCGGAACCTGCACCGT
CCCCCTGGTGCCGTGAAGCTGGAGAAGGAGAAGCTAGAGCAAAACCCGAGAAGTCCCAGGACATCAAA
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TGAGGCTCTGCAGCTTAGCTTCAAGAACATGTGAAGCTGCGGCCCTTGCTGCAGAAGTGGGTGGAGGAA
GCTGACAACAATGAAAATCTTCAGGAGATATGCAAAGCAGAAACCTCATGCAGGCCCGAAAAGAGAAAGC
GAACAGTATCGAGAACCGAGTGAGAGGCAACCTGGAGAATTTGTTCTCGAGTGCCCGAAACCCACACT
GCAGATCAGCCACATCGCCAGCAGCTTGGGCTCGAGAAGGATGTGGTCCGAGTGTGGTTCTGTAACCGG
CGCCAGAAGGGCAAGCGATCAAGCAGCGACTATGCACAACGAGAGGATTTTGAGGCTGCTGGGTCTCCTT
TCTCAGGGGACCAAGTGCCTTCTCCGGCCCCAGGGCCCCATTTTGGTACCCAGGCTATGGGAGCCC
TCACTTACTGCACTGTACTCCTCAGTCCCTTCCCTGAGGGGAAGTCTTTCCCCAGTCTCCGTCATC
ACTCTGGGCTCTCCCATGCATTCAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC228288 representing NM_001159542
Red=Cloning site Green=Tags(s)

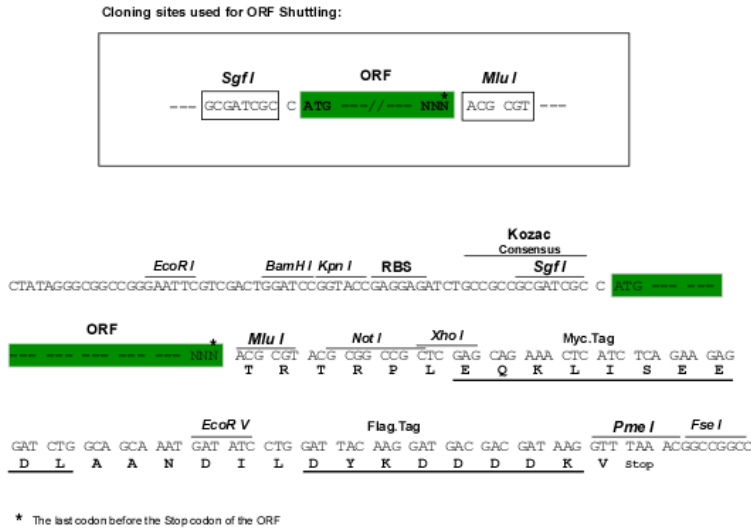
MAGHLASDFAFSPPPGGGGDPWGAEPGWVDPLTWLSFQPPGGPGIGPGVGPSEVWGIPPCPPPYELC
 GGMAYCGPQVGVGLVPQGGLETSQPESEAGVGVESNSNGASPEPCTVPPGAVKLEKEKLEQNPEKSQDIK
 ALQKELEQFAKLLKQKRITLGYTQADVGLILGVLFGKVF S QKTI CRFEALQLSFKNMCKLRPLLQKWVEE
 ADNENLQEICKAETLMQARKKRRTSIENRVRGNLENLFLQCPKPTLQISHIAQQLGLEKDVVRVWFCNR
 RQKGRSSSDYAQREDFEAAGSPFSGGPVSFPAPGPHFGTPGYGSPHFTALYSSVPFPEGEVFPVSVI
 TLGSPMHSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8039_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001159542

ORF Size: 1077 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_001159542.2](#)

RefSeq ORF: 1080 bp

Locus ID: 5462

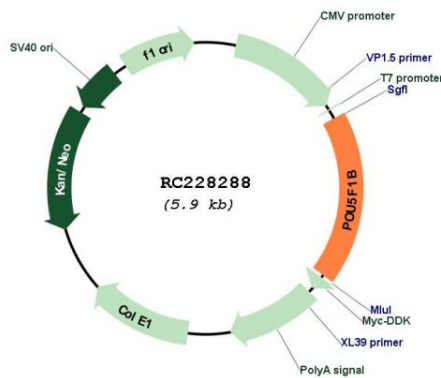
UniProt ID: [Q06416](#)

Cytogenetics: 8q24.21

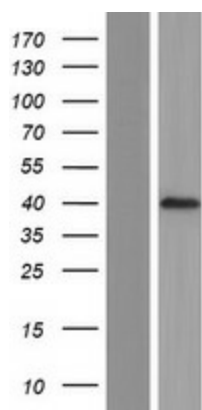
MW: 38.4 kDa

Gene Summary: This intronless gene was thought to be a transcribed pseudogene of POU class 5 homeobox 1, however, it has been reported that this gene can encode a functional protein. The encoded protein is nearly the same length as and highly similar to the POU class 5 homeobox 1 transcription factor, has been shown to be a weak transcriptional activator and may play a role in carcinogenesis and eye development. [provided by RefSeq, Apr 2009]

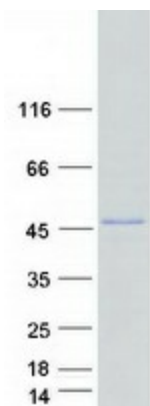
Product images:



Circular map for RC228288



Western blot validation of overexpression lysate (Cat# [LY431316]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228288 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POU5F1B protein (Cat# [TP328288]). The protein was produced from HEK293T cells transfected with POU5F1B cDNA clone (Cat# RC228288) using MegaTran 2.0 (Cat# [TT210002]).