

Product datasheet for **RG228288**

POU5F1B (NM_001159542) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POU5F1B (NM_001159542) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POU5F1B
Synonyms:	OCT4-PG1; OCT4PG1; OTF3C; OTF3P1; POU5F1P1; POU5F1P4; POU5FLC8; POU5FLC20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG228288 representing NM_001159542 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGGACACCTGGCTTCGGATTTTCGCTTCTCGCCCCCTCCAGGCGGTGGGGTGATGGCCATGGG
GGGCGGAGCCGGCTGGTTGATCCTCTGACCTGGCTAAGCTTCCAAGGCCCTCTGGAGGGCCAGGAAT
CGGGCCGGGGTGGGCCAGGCTCTGAGGTGTGGGGATTCCCCCTGCCCGCCGATGAGTTATGT
GGGGGATGGCGTACTGTGGCCTCAGGTTGGAGTGGGGCTAGTCCCCAAGCGGCTTGGAGACCTCTC
AGCCTGAGAGCGAAGCAGGAGTCGGGTGGAGAGCAACTCCAATGGGGCCTCCCCGAACCTGCACCGT
CCCCCTGGTGCCGTGAAGCTGGAGAAGGAGAAGCTAGAGCAAAACCCGAGAAGTCCCAGGACATCAAA
GCTCTGCAGAAAGAACTCGAGCAATTTGCCAAGCTCCTGAAGCAGAAGAGGATCACCTGGGATATACAC
AGGCCGATGTGGGGCTCATCCTGGGGTTCTATTTGGGAAGGTGTTACGCCAAAAGACCATCTGCCGCTT
TGAGGCTCTGCAGCTTAGCTTCAAGAACATGTGTAAGCTGCGGCCCTTGCTGCAGAAGTGGTGGAGGAA
GCTGACAACAATGAAAATCTTCAGGAGATATGCAAAGCAGAAACCTCATGCAGGCCCGAAAAGAGAAAGC
GAACCAAGTATCGAGAACCGAGTGAAGGCAACCTGGAGAATTTGTTCTGCAGTCCCGAAAACCCACACT
GCAGATCAGCCACATCGCCAGCAGCTTGGGCTCGAGAAGGATGTGGTCCGAGTGTGGTTCTGTAACCGG
CGCCAGAAGGGCAAGCGATCAAGCAGCGACTATGCACAACGAGAGGATTTTGAGGCTGCTGGGTCTCCTT
TCTCAGGGGACCAAGTGCCTTTCTCCGGCCCCAGGGCCCCATTTTGGTACCCAGGCTATGGGAGCCC
TCACTTACTGCACTGTACTCCTCAGTCCCTTTCCCTGAGGGGAAGTCTTTCCCCAGTCTCCGTCATC
ACTCTGGGCTCTCCCATGCATTCAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228288 representing NM_001159542
Red=Cloning site Green=Tags(s)

MAGHLASDFAFSPPPGGGGDGPWGAEPGWVDPLTWL SFQPPGGPGIGPGVGPSEVWGI PPCPPPYELC
 GGMAYCGPQVGVGLVPQGGLETSQPESEAGVGVESNSNGASPEPCTVPPGAVKLEKEKLEQNPEKSQDIK
 ALQKELEQFAKLLKQKRITLGYTQADVGLILGVLF GKVFSQKTI CRFEALQLSFKNMCKLRPLLQKWVEE
 ADNENLQEICKAETLMQARKKRKRTSIENRVRGNLENLFLQCPKPTLQISHIAQQLGLEKD VVRVWFCNR
 RQKGRSSDYAQREDFEAAGSPFSGGPVSFPPAPGPHFGTPGYGSPHFTALYSSVPFPEGEVFPVSVI
 TLGSPMHSN

TRTRPLE - GFP Tag - V

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 Size: 1599 bp

RefSeq ORF: 1080 bp

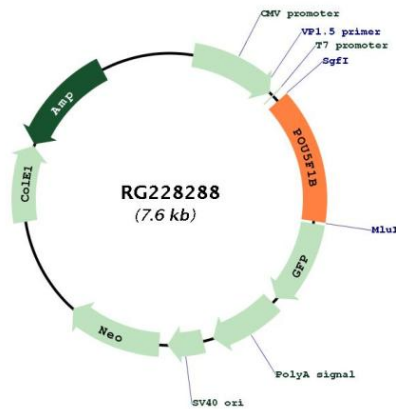
Locus ID: 5462

UniProt ID: [Q06416](#)

Cytogenetics: 8q24.21

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 RG228288