

Product datasheet for **RG228521**

POU6F2 (NM_001166018) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POU6F2 (NM_001166018) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	POU6F2
Synonyms:	RPF-1; WT5; WTSL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG228521 representing NM_001166018
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGTCTTCTTCTCAGGATCCAATGATAGCTGGACAAGTCAGTAAGCCCTTGCTGTCAGTGCGGAGTG
 AAATGAATGCGGAGTTGAGAGGTGAGGACAAGGCTGCTACTTCAGACAGCGAGCTGAATGAGCCCCTGCT
 TCGCCTGTGGAATCAAATGACAGCGAGGACACTCCCAGCAAGCTCTTCGGGGCTAGAGGAAACCCAGCA
 TTATCAGACCCAGGCACTCCTGACCAACACCAGGCCAGTCAGACCCACCCCATTTCCAGTTGGGCCAC
 AGCCACTTCTGACGGCACAGCAGTTAGCTTCTGCTGTGGCCGGCGTGATGCCGGGAGGCCCCAGCCCT
 CAACCAGCCAATCCTCATTCCCTTCAACATGGCGGGACAGCTAGGAGGCCAGCAAGGACTGGTTCTCACA
 CTGCCAACAGCGAATCTACCAACATCCAAGGGCTGGTGGCAGCAGCTGCAGCCGGAGGCATTATGACTC
 TGCCACTGCAAAATCTACAAGCTACCTCATCCCTGAACCTCCAGCTCCAGCAGCTCCAGCTCCAGCTCCA
 GCAGCAGCAGCAGCAGCAGCAGCAGCAGCTCCCCGTC AACCAACCAGCACCCGCAACCAGCCCCACAG
 GCGCCCTCGCAGTCCCAGCAGCAGCCGCTGCAGCCACCCACCCAGCAGCCACCCCGCTCTCAGC
 AGCCGCCAGCTCCTACATCTCAGCTGCAACAGGCGCTCAGCCCCAGCAGCACCAACCCCACTCCCCTC
 CCAGAACCAGAACCAACCATCTCCAACCCAGCAGAGCTCCAGCCCCCGAGAAACCTAGTCAGTCTCCA
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 TTTAAATCCGGCGCTGTCCCTTGGCCTGACCCAGACTCAGGTGGGACAGGCTCTCAGTGTACAGAGG
 GCCCGCGTACAGCCAGTCGGCCATCTGCAGGTTTAAAAGCTGGACATCACCCCTAAAAGTGCCAGAA
 GATCAAGCCGGTCTTGAGCGGTGGATGGCTGAGGCTGAGGCCCGCCATCGAGCAGGTATGCAGAACCTG
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 AGATCCTCAATGCCACTTTGAGAAGAACACACCCCTTCTGGCAGGAAATGACCGAAATGCTGAGAA
 GCTGAACTATGACCGAGAAGTAGTTAGAGTTTGGTTCTGCAATAAGAGGCAAGCCCTGAAGAACAATT
 AAACGTTAAAACAGCACGAGCCGGCCACGGCAGTCCCTTTGGAGCCCTAACAGACTCTCTGGAAGAAA
 ACTCC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228521 representing NM_001166018
 Red=Cloning site Green=Tags(s)

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MSALLQDPMIAGQVSKPLL SVRSEMNAELRGEDKAATSDSELNEPLLAPVESNDS EDTPSKLFGARGNPA
LSDPGTPDQH QASQTHPPFPVGPQPLLTAQQLASAVAGVMPGGPPALNQPI LIPFN MAGQLGGQQGLVLT
LPTANL TNIQGL VAAAAAGGIMTLPLQNLQATSSLNSQLQQLQLQLQQQQQQQQQPPSTNQHPQFAPQ
APSQSQQPLQPTPPQQPPASQPPAPTSQLQQAPQPQQHQPHSHSQNQNPSP TQQSSSPPQKPSQSP
GHGLPSPLTPPNPLQLVNNPLASQAAAAAAMSSIAS SQAFGNLSSLQGV TQGLVTNAQQQIIGTIPLM
PNPGPSSQAASGTQGLQVQPI TPQLL TNAQQQI IATVIGNQILPVINTQGITLSP IKPGQQLHQPSQTSV
GQAASQGNLLHLAHSQMSQSPV RQASSSSSSSSSSSAL SVGQLVSNPQTAA GEVDGVNLEEIREFAKA
FKIRRLSLGLTQTQVGQAL SATEGPAYSQSAICRFEKLDITPKSAQKIKPVL ERWMAEAEARHRAGMQNL
TEFIGSEPSKKRKRRTSFTPQALEILNAHFEKNTHPSGQEMTEIAEKLN YDREVVRVWF CNKRQALKNTI
KRLKQHEPATAVPLEPLTDSLEENS
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166018

ORF Size: 1965 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_001166018.2](#)

RefSeq Size: 2216 bp

RefSeq ORF: 1968 bp

Locus ID: 11281

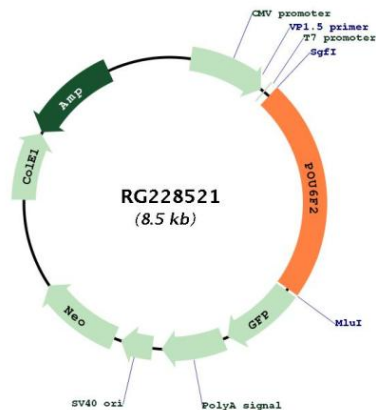
UniProt ID: [P78424](#)

Cytogenetics: 7p14.1

Protein Families: Transcription Factors

Gene Summary: This gene encodes a member of the POU protein family characterized by the presence of a bipartite DNA binding domain, consisting of a POU-specific domain and a homeodomain, separated by a variable polylinker. The DNA binding domain may bind to DNA as monomers or as homo- and/or heterodimers, in a sequence-specific manner. The POU family members are transcriptional regulators, many of which are known to control cell type-specific differentiation pathways. This gene is a tumor suppressor involved in Wilms tumor (WT) predisposition. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.[provided by RefSeq, Oct 2009]

Product images:



Circular map for RG228521