

## Product datasheet for **RG224192**

### **POU6F2 (NM\_007252) Human Tagged ORF Clone**

#### **Product data:**

|                           |                                           |
|---------------------------|-------------------------------------------|
| Product Type:             | Expression Plasmids                       |
| Product Name:             | POU6F2 (NM_007252) 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:

>RG224192 representing NM\_007252  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATAGTGCTCTTCTTCAGGATCCAATGATAGCTGGACAAGTCAGTAAGCCCTTGCTGTAGTCGGGAGTG  
AAATGAATGCGGAGTTGAGAGGTGAGGACAAGGCTGCTACTTCAGACAGCGAGCTGAATGAGCCCCTGCT  
TGCGCCTGTGGAATCAAATGACAGCGAGGACACTCCCAGCAAGCTCTTCGGGGCTAGAGGAAACCCAGCA  
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AGCCACTTCTGACGGCACAGCAGTTAGCTTCTGCTGTGGCCGGCGTGATGCCGGGAGGCCCCCCAGCCCT  
CAACCAGCCAATCCTCATTCCCTTCAACATGGCGGGACAGCTAGGAGGCCAGCAAGGACTGTTTCTCAC  
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GCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCCTCCCCGTCAACCAACCAGCACCCGCAACCAGCCCCACAG  
GCGCCCTCGCAGTCCCAGCAGCAGCGCTGCAGCCCACCCACCCAGCAGCCACCACCCGCCCTCTCAGC  
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TCTTCAGGGGTGACAGGTCACTAGTTACTAATGCACAAGGACAGATTATCGGACCATTCCACTGATG  
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AGTCTCTCACAAACGCCAGGGCCAGATCATCGCCACAGTCATTGGGAACCAGATCCTGCCCGTGATCAA  
CACCCAGGGCATCAGCTGTCACCCATCAAGCCCGGCCAGCAGCTCCACCAACCTCCCAGACGTCAGTG  
GGTCAAGCAGCCTCCAAGGCAACCTTCTGCACCTGGCTCAGGCCAAGCATCCATGTCTCAAAGTCCG  
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TTTAAAAATCCGCGCCTGTCCCTTGGCTGACCCAGACTCAGGTGGGACAGGCTCTCAGTGCTACAGAG  
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AGCCCAAGAGAACATAAGCTAGCAGTCTGACAGCCAACTGAACCTTGGCCTTTTGATCCTGCCAGG  
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CAGCTTCTGGCGAGGAAATGACCGAAATTGCTGAGAAGTGAACATGACCCGAGAAGTAGTTAGAGTTT  
GCTTGTCAATTAAGAGCAAGCCCTGAAGAACACAATTAAGCCCTTAAACAGCAGCAGCCGGCCACGCG  
AGTCCCTTTGGAGCCCTTAACGAGACTCTCTGGAAGAAAACCTCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG224192 representing NM\_007252  
 Red=Cloning site Green=Tags(s)

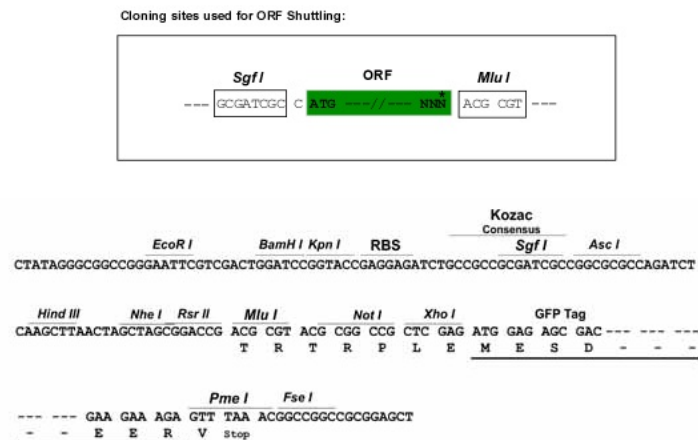
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 LPTANL TNIQGL VAAAAAGGIMTLPLQNLQATSSLNSQLQQLQLQLQQQQQQQQQPPSTNQHPQAPQ  
 APSQSQQQLQPTPPQQPPASQPPAPTSQLQAPQPQHQPHSHSQNQNPSPPTQQSSSPQKPSQSP  
 GHGLPSPLTPPNPLQLVNNPLASQAAAAAAMSSIASQAFGNALSSLQGVGTGQLVTNAQQQIIGTIPLM  
 PNP GPSSQAASGTQGLQVQPI TPQLLTNAQGQIIATVIGNQILPVINTQGITLSP IKGQQLHQPSQTSV  
 GQAASQGNLLHLAHSQASMSQSPVRQASSSSSSSSSSSALSVGQLVSNPQTAAAGEVDGVNLEEIREFAKA  
 FKIRRLSLGLTQTQVGQAL SATEGPAYSAICRHTILRSHFFLPQEAQENTIASSLTAKLNPGLLYPAR  
 FEKLDITPKSAQIKPVLERWMAEAEARHRAGMQNLTEFIGSEPSKKRKRRTSFTPQALEILNAHFENKNT  
 HPSGQEMTEIAEKLNYDREVVVRVWFCNKRQALKNTIKRLKQHEPATAVPLEPLTDSLEENS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_007252

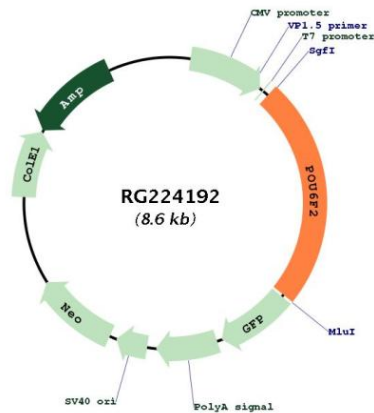
ORF Size: 2073 bp

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>OTI Disclaimer:</b>        | <p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p> |
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq:</b>                | <a href="#">NM_007252.4</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq Size:</b>           | 2324 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>RefSeq ORF:</b>            | 2076 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Locus ID:</b>              | 11281                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID:</b>            | <a href="#">P78424</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Cytogenetics:</b>          | 7p14.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Domains:</b>               | POU, homeobox                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Families:</b>      | 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 RG224192