

## Product datasheet for **RG234095**

### POU2F3 (NM\_001244682) Human Tagged ORF Clone

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | POU2F3 (NM_001244682) Human Tagged ORF Clone                                   |
| Tag:                      | TurboGFP                                                                       |
| Symbol:                   | POU2F3                                                                         |
| Synonyms:                 | Epoc-1; OCT-11; OCT11; OTF-11; PLA-1; PLA1; Skn-1a                             |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                         |
| ORF Nucleotide Sequence:  | >RG234095 representing NM_001244682<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGAGTCTCCAAGAACTGCTAAAGGAGGAAGGGATATCAAGATGAGTGGGGATGTAGCCGATTCCACGG  
 ATGCTCGCAGCACTCTCAGCCAGGTGGAGCCAGGAAATGATCGAAATGGCCTAGATTTCAACAGGCAGAT  
 TAAACCGAAGATCTCAGTGACTCCCTGCAGCAGACCCCTCTCCCATCGGCCATGCCACCTGAGTCAAGGA  
 CCTGCCATGATGTCGGAAACCAATGTCTGGGCTAAATGCCAGCCCATGTCAGGACATGGCTTCCCTCC  
 ATCCGCTCCAGCAGCTTGTGCTGGTCCCGGCCACTTACAGTCTGTATCCAGTTCCTGTATCTCAGAC  
 CCAGCCTGGGCAGCAAGGTCTGCAGCCAAATCTCTCCCTTTCCACAGCAACAAAGCGGTCTCCTCCTC  
 CCACAGACTGGGCCGGGACTGGCATCCCAGGCATTTGGGCACCCTGGGCTGCCAGGATCCTCTTTAGAAC  
 CCCACCTGGAAGCATCCCAGCATCTCCAGTGCCCAAGCATCTACCCAGCTCTGGAGGGGCCGATGAGCC  
 CAGTGACCTCGAGGAGCTGGAGAAGTTTGCCAAGACCTTCAAGCAGAGGCGCATTAAAGCTGGGCTTCA  
 CAGGGAGATGTGGGGCTGGCGATGGGAAAGCTGTATGGCAACGACTTCAGCCAGACCACCATCTCACGAT  
 TTGAGGCCCTCAACCTGAGCTTCAAGAACATGTGCAAGCTCAAGCCCCTGCTGGAGAAGTGGCTGAATGA  
 TGCAGAGTCTCTCCGTGAGCCCTCAGTGAGCAGCCAGCTCCTACCCAGCCTCAGTGAAGTATTT  
 GGTAGGAAGAGAAAGAACGGACGAGCATCGAGACCAACATCCGCTGACTCTGGAGAAGAGGTTTCAAG  
 ATAACCCAAAACCCAGCTCGGAGGAGATCTCATGATTGCAGAGCAGTTGTCCATGGAGAAGGAGGTGGT  
 GAGGGTCTGTTCTGCAACCGACGCCAAAAGGAGAAGCGAATCAACTGCCCTGTGGCCACACCCATCAAA  
 CCACCTGTCTAACTCCCGCTGGTATCTCCCTCAGGGTCTCTGGGCCCCCTCTCTGTCCCTCTGTCC  
 ACAGTACCATGCCTGGAACAGTAACGTCATCCTGTTCCCTGGGAACAACAGCAGGCCTTCATCTCCTGG  
 CTCAGGACTCCACGCCAGCAGCCCACTGCATCTCAAAATAACTCAAAGCAGCAGTGAAGTCCGCCTCC  
 AGTTTTAACTCTTCAGGATCTTGGTACCGATGGAATCATTCCACCTACCTCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG234095 representing NM\_001244682  
 Red=Cloning site Green=Tags(s)

MESPRTAKGGRDIKMSGDVADSTDARSTLSQVEPGNDRNGLDFNRQIKTEDLSDSLQQTLSHRPCHLSQG  
 PAMMSGNQMSGLNASPCQDMASLHPLQQLVLVPGHLQSVSQFLLSQTQPGQQLQPNNLPFPQQQSGLLL  
 PQTGPGLASQAFGHPGLPGSSLEPHLEASQHLVPKHLPSGGADEPSDLEELEKFAKTFKQRRIKLGFT  
 QGDVGLAMGKLYGNDFSQTTISRFEALNLSFKNMCKLKPLLEKWLNDAAESSPDPSVSTPSSYPSLSEVF  
 GRKRKRRTSIETNIRLTLEKRFQDNPKPSSEIISMIAEQLSMEKEVVRVWFCNRRQKEKRINCPVATPIK  
 PPVYNSRLVSPSGSLGPLSVPPVHSTMPGTVTSSCPGNNSRPSSPGSLHASSPTASQNNSKAAVNSAS  
 SFNSSGSWYRWNHSTYLH

TRTRPLE – GFP Tag – V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001244682

**ORF Size:** 1314 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\\_001244682.2](#)

**RefSeq Size:** 2903 bp

**RefSeq ORF:** 1317 bp

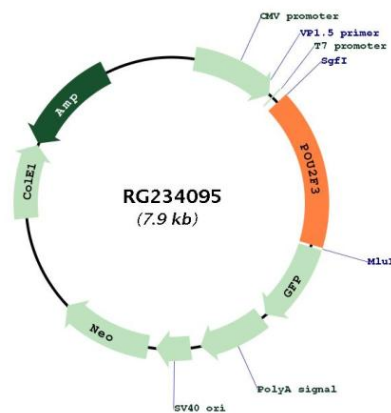
**Locus ID:** 25833

**UniProt ID:** [Q9UKI9](#)

**Cytogenetics:** 11q23.3

**Gene Summary:** This gene encodes a member of the POU domain family of transcription factors. POU domain transcription factors bind to a specific octamer DNA motif and regulate cell type-specific differentiation pathways. The encoded protein is primarily expressed in the epidermis, and plays a critical role in keratinocyte proliferation and differentiation. The encoded protein is also a candidate tumor suppressor protein, and aberrant promoter methylation of this gene may play a role in cervical cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Sep 2011]

## Product images:



Circular map for RG234095