

## Product datasheet for **SC310274**

### POC5 (NM\_152408) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	POC5 (NM_152408) Human Untagged Clone
Tag:	Tag Free
Symbol:	POC5
Synonyms:	C5orf37
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC310274 representing NM\_152408.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAAGTGGGAAGAATATGAAGAACTGCTTCATTATGCTATAGTGACTCCAAATATTGAACCTGTGCT
TCACAGTCATCTCATCCTAAGGGAGAATTGGTGCCAGATGTCAGAATTTCTACAATTCATGATATTCCT
CATAGTCAAGGAAATAACTCTGAAGTAAGAGAACTGCAATAGAAGTTGGAAAAGGATGTGATTTCCAT
ATTTCAAGTCATTCAAAGACAGATGAGTCATCACCAGTGTATCGCCAAGGAAGCCTTCTCACCCAGTC
ATGGATTTTTTTCAGTTCACATCTTTTAGCTGACTCTTCTCACCAGCAACAAATTCTAGTCATACAGAT
GCCCATGAAATACTTGTGAGCGATTTTCTGTTTCTGATGAAAACCTTCAGAAGATGGAAAATGTGCTT
GATCTTTGGAGTTCAGGTCTTAAGACAAACATCATATCTGAACTAAGTAAATGGAGACTTAATTTTATT
GACTGGCACCGAATGGAAATGAGAAAAGAGAAAACATGCAGCACATTTAAAACAACGTGTGAAT
CAGATCAATGAATTGAAGGAGCTGCAAAAACCTTTGAAATCTCCATTGGGAGAAAAGATGAGGTGATT
TCTAGCTTGTCTCATGCCATAGGCAAGCAAAAAGGAAAAGATAGAGTTGATGAGAACATTCTCCACTGG
CGAATCGGCCATGTCAGAGCCAGACAGGATGTTTATGAAGGTAAGTAACTAGCTGACCAGTACTACCAGAGA
ACTTTACTGAAGAAAGTCTGAAAGTCTGGCGTCCGTAGTGCAAAAGCAGTGGAAAAGATGTGGTAGAA
AGAGCTTGTCAAGCAAGAGCTGAAGAAGTTGTATCCAGATTTCCAATGATTATGAAGCCAAAGTTGCT
ATGTTATCTGGAGCTTTGGAAAATGCAAAAGCTGAGATTCAAAGAATGCAACATGAAAAGAGCACTTT
GAAGATTCATGAAAAAGCTTTTCATGAGGGGTGTATGTGCATTAATCTTGAAGCCATGACTATATTT
CAAAACAGAAATGATGCAGGGATAGACTCCACAATAATAAAAAGGAAGATATGGTCCCTGGTGTCAA
GGAAAAGAACATTCTGCTCATTGGATCCTTCAGCTCCTCCGATGCCCTTACCAGTTACATCACCAGT
CTGCCATCCCCACCAGCCGCCGTCGGAGGAGCCAGCGGACTGCCGTTCCCTCAGCTGCTTCGATGACT
TCTACCAGGCTGCTTCCGCATCTTCTGTTACAGTTCCTGTTTCTGCTCTTGGTGCAGGATCTGCAGCT
ACTGCTGCATCAGAAGAAATGTATGTGCCAAGAGTTGTAACTCTGCACAACAGAAAGCAGGAAGAAGT
ATTACAGCCCGGATCACAGGAAGATGTGATTTTGTCTCAAAAAATAGAATTAGCAGCAGTTTAGCTATA
ATGGGAGTTTCTCCTCCCATGAGCTCAGTTGTTGTGAAAAACATCATCCAGTCACAGTGCAAAACCATT
CCTCAAGCAACTGCAGCAAAATATCCCCGGACCATTATCCTGAAAGTAGTACCTCAGCTTCCAGATCA
CTTGAACAGATCAGCTCACACCCAGTCTCTACAAGTGTTCATTCCATAAAAGTGTTGACTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
  
```

**Restriction Sites:** Sgfl-Mlul

**Plasmid Map:** □

**ACCN:** NM\_152408

**Insert Size:** 1653 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_152408.2](#)

**RefSeq Size:** 1969 bp

**RefSeq ORF:** 1653 bp

**Locus ID:** 134359

**UniProt ID:** [Q8NA72](#)

**Cytogenetics:** 5q13.3

**MW:** 60.8 kDa

**Gene Summary:** Essential for the assembly of the distal half of centrioles, required for centriole elongation. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) has multiple differences in the presence and absence of exons at its 5' end, compared to variant 1. These differences produce a unique 5' UTR and cause translation initiation at a unique start codon, compared to variant 1. The encoded protein (isoform 2) is shorter than isoform 1.