

Product datasheet for **SC321304**

POT1 (NM_001042594) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | POT1 (NM_001042594) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | POT1 |
| Synonyms: | CMM10; GLM9; HPOT1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC (PS100020) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_001042594.1
 CTCAAATCAACTGTTTATGTTTATGTCAAATCTTTAAGAGATTTTTCTACAGAATCAATG
 TCTTTGGTTCCAGCAACAAATTATATATACACCCCTGAATCAACTTAAGGGTGGTACA
 ATTGTCAATGTCTATGGTGTGTGAAGTCTTTAAGCCCCATATCTAAGCAAAGGAACT
 GATTATTGCTCAGTTGTAAGTATTGTGGACCAGACAAATGTAAAATACTTGCCTGCTC
 TTTAGTGGAACTATGAAGCCCTCCAATAATTTATAAAAATGGAGATATTGTTGCTTT
 CACAGGCTGAAGATTCAAGTATATAAAAAGGAGACTCAGGGTATCACCAGCTCTGGCTTT
 GCATCTTTGACGTTTGGGAACTTTGGGAGCCCTATCATACCTCGCACTTCAAGCAAG
 TATTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTGGGCATCT
 ACTCATATGTCACCGTCTTGACATTACTAAAATTGTGTGATGTTGAGCAATGCAGTAT
 TTTGACCTGACTTGTGAGCTCTTGGCAAAGCAGAAGTGGACGGAGCATCATTTCTTCTA
 AAGGTATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGACCTT
 GTTCTTGAAGGTGATTTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATTTTA
 GTCTACGATAACCATGTTTATGTGGCAAGATCTCTGAAGTTGGAAGCTTTCTTAGAATC
 TATAGCCTTCATACCAAACCTTCAATCAATGAATTCAGAGAATCAGACAATGTTAAGTTTA
 GAGTTTTCATCTTATGGAGGTACCAAGTTACGGTTCGGGGAATCAGGGTCTTGCCAGAAAGT
 AACTCTGATGTGGATCAACTGAAAAGGATTTAGAATCTGCAAATTTGACAGCCAATCAG
 CATTGAGATGTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAGCTCTGGATCAGTA
 TCATTATACGAGGTAGAAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAG
 TATTTGGAGAGGACACCACTATGTGCCATTTTGAACAAAAGCTCCTCAACAATACCGC
 ATCCGAGCAAAATGAGGTCATATAAGCCCAGAAGACTATTTAGTCTGTTAACTTCAT
 TGCCCTAAATGCATTTGCTGCAAGAAGTCCACATGAGGGCGATTTGGATATAATTTT
 CAGGATGGTGCAACTAAAACCCAGATGTCAAGCTACAAAATACATCATTATATGATTTCA
 AAAATCTGGACCACTAAAATCAAAAAGGACGAAAAGTAGCAGTTCATTTTGTGAAAAAT
 AATGGTATTCTCCGCTTTCAAATGAATGTCTACTTTTGTAGAAGGAGGTACACTCAGT
 GAAATTTGCAAACCTCGAACAAGTTTAAATAGTGAATTCCTGTGAGATCTGGCCACGAA
 GACCTGGAACCTTTGGACCTTTGACACCATTTCTTATACAAGGAACAATACATCACTAT
 GGATGTAAACAGTGTCTAGTTTGGATCCATACAAAATCTAAATTCCTGGTTGATAAA
 ACATCGTGGATTCCTTCTGTGGCAGAAGCACTGGGTATTGTACCCCTCCAATATGTG
 TTTGTTATGACCTTTACACTTGATGATGGAACAGGAGTACTAGAAGCCTATCTCATGGAT
 TCTGACAAATTTCCAGATCCAGCATCAGAAGTCTGATGGATGATGACCTTCAGAAA
 AGTGTGGATATGATCATGGATATGTTTTGTCTCCAGGAATAAAAATGATGCATATCCG
 TGGTTGGAATGCTTCATCAAGTCATACAATGTCAAAAATGGAACAGATAATCAAATTTGC
 TATCAGATTTTGGACACCAGTTGCGAAGATGTAATCTAATATTGCCATCCAATTTAG
 CATACATAAAATGTTGCCACTCAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_001042594

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_001042594.1](#), [NP_001036059.1](#)

RefSeq Size: 3964 bp

RefSeq ORF: 1512 bp

Locus ID: 25913

UniProt ID: [Q9NUX5](#)

Cytogenetics: 7q31.33

Gene Summary: This gene is a member of the telombin family and encodes a nuclear protein involved in telomere maintenance. Specifically, this protein functions as a member of a multi-protein complex that binds to the TTAGGG repeats of telomeres, regulating telomere length and protecting chromosome ends from illegitimate recombination, catastrophic chromosome instability, and abnormal chromosome segregation. Increased transcriptional expression of this gene is associated with stomach carcinogenesis and its progression. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 5' coding region and uses a downstream start codon, compared to variant 1. The encoded isoform (5, also known as POT1-55) has a shorter N-terminus, compared to isoform 1. There are currently no publicly available full-length transcripts representing this variant, but it is supported by data in PMIDs 12391173 and 15973431.