

Product datasheet for **SC112647**

POT1 (NM_015450) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | POT1 (NM_015450) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | POT1 |
| Synonyms: | CMM10; GLM9; HPOT1 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene ORF within SC112647 sequence for NM_015450 edited (data generated by NextGen Sequencing)

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ATGTCTTTGGTCCAGCAACAAATTATATATATACACCCCTGAATCAACTTAAGGGTGGT
ACAATTGTCAATGTCTATGGTGTGTGAAGTCTTTAAGCCCCATATCTAAGCAAAGGA
ACTGATTATTGCTCAGTTGTAACATTGTGGACCAGACAAATGTAAACTAAGTGCCTG
CTCTTTAGTGAACTATGAAGCCCTTCCAATAATTTATAAAAAATGGAGATATTGTTCCG
TTTCACAGGCTGAAGATTCAAGTATATAAAAAAGGAGACTCAGGGTATCACCAGCTCTGGC
TTTGCATCTTTGACGTTTGAGGGAACCTTTGGGAGCCCTATCATACCTCGCACTTCAAGC
AAGTATTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTTGGCA
TCTACTCATATGTCACCGTCTTGGACATTACTAAAATTGTGTGATGTTCCAGCAATGCAG
TATTTTGCCTGACTTGTGAGCTCTTGGGCAAAGCAGAAGTGGACGGAGCATCATTTCTT
CTAAAGGTATGGGATGGCACCAGGACACCATTTCCATCTTGGAGAGTCTTAATACAAGAC
CTTGTCTTGAAGGTGATTTAAGTCACATCCATCGGCTACAAAATCTGACAATAGACATT
TTAGTCTACGATAACCATGTTTCATGTGGCAAGATCTCTGAAGGTTGGAAGCTTTCTTAGA
ATCTATAGCCTTCATACCAAACCTCAATCAATGAATTCAGAGAATCAGACAATGTTAAGT
TTAGAGTTTCATCTTCATGGAGGTACCAGTTACGGTCCGGGAATCAGGGTCTTGCCAGAA
AGTAACTCTGATGTGGATCAACTGAAAAAGGATTTAGAATCTGCAAAATTTGACAGCCAAT
CAGCATTACAGATGTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAGCTCTGGATCA
GTATCATTATACGAGGTAGAAAGATGTCAACAGCTATCTGCTACAATACTTACAGATCAT
CAGTATTTGGAGAGGACACCACTATGTGCCATTTTGAACAAAAAGCTCCTCAACAATAC
CGCATCCGAGCAAAATGAGGTCATATAAGCCCAGAAGACTATTCAGTCTGTTAAACTT
CATTGCCCTAAATGTCATTTGCTGCAAGAAGTCCACATGAGGGCGATTTGGATATAATT
TTTCAGGATGGTCAACTAAAACCCAGATGTCAAGCTACAAAATACATCATTATATGAT
TCAAAAATCTGGACCACTAAAAATCAAAAAGGACGAAAAGTAGCAGTTCATTTTGTGAAA
AATAATGGTATTCTCCCGCTTTCAAATGAATGTCTACTTTTGATAGAAGGAGGTACACTC
AGTGAAATTTGCAAACCTCTCGAACAAAGTTAATAGTGAATTCCTGTGAGATCTGGCCAC
GAAGACCTGGAACCTTTGGACCTTTCCAGCACCATTTCTTATACAAGGAACAATACATCAC
TATGGATGTAACAGTGTCTAGTTTGGAGATCCATACAAAATCTAAATCCCTGGTTGAT
AAAACATCGTGGATTCTTCTTCTGTGGCAGAAGCACTGGGTATTGTACCCCTCCAATAT
GTGTTTGTATGACCTTTACACTTGATGATGGAACAGGAGTACTAGAAGCCTATCTCATG
GATTCTGACAAATCTTCCAGATTCCAGCATCAGAAGTCTGATGGATGATGACCTTCAG
AAAAGTGTGGATATGATCATGGATATGTTTTGTCTCCAGGAATAAAAATGATGCATAT
CCGTGGTTGGAATGCTTCATCAAGTCATACAATGTCACAAATGGAACAGATAATCAAATT
TGCTATCAGATTTTTGACACCACAGTTGCAGAAGATGTAATCTAA
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Clone variation with respect to NM_015450.2

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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_015450 unedited TTGTAATACGACTCACTATAGGGCGGCCGCAATTCGGCACGAGGGGCAAGTTGTCAGAT TCCCTAGTTGAATTTGCTTTGGACATCAGTGTGAAGCAGAAGTATGCCACTTGAATT AATAAAGGAAGTCAATGGGGTGCCTGAAGTTCAGCCGCTGAGTAAATTACATAAAGTAGA TTTGGATCCCTACAGCCAGGTTACAATTATAGCAAGAAATATATTCAGGGAAAACCTTC ACTTATCTCTTCTTAACTTATCGTGAAATAAAACAGCTGTTTTGCAGATTGGACTACA AGGACACCATTGCAGTGGCTAGATTTATTGTTTTTTAGCTTCTTCATCTACAAGCAGAG ATGGTAAACCTTGCATATTTTTGAAAGCATTGGAAGACCTCAAATCAACTGTTTATGTTT ATGTCAAATCTTTAAGAGATTTTTCTACAGAATCAATGTCTTTGGTTCCAGCAACAAATT ATATATACACCCCTGAATCAACTTAAGGGTGGTACAATTGTCAATGTCTATGGTGTG TGAAGTCTTTAAGCCCCATATCTAAGCAAAGGAAGTATTGCTCAGTTGTAACATA TTGTGGACCAGACAAATGAAAACAACTTGCCTGCTCTTTAGTGGAACTATGAAGCCC TTCCAATAATTTATAAAAATGGAGATATTGTTTCGCTTTCACAGGCTGAAGATTAAGTATA TAAAAAGGAGACTCAGGNTATCACCAGCTCTGGCTTTCATCTTTGACGTTTGAGGGAAC TTGGGAGCCCTATCATCTCGCACTTCAAGCAGTATTTAACTTCACTACTGAGACAC ANATGTAGAAGCCTTACTGTTTGGGCACTACTATATGCACCGTCTGGACATACTAAATGT GGGATGTACCAAGCGTTTTGACTGC</p> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_015450 unedited TCTATGGACCGGCCGCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAACATTATA AATCTGACCACCTTTTATTAGGTTGAGGTGAAATAGAGAAATCTCTACTATCCTGGAGAGA AACAAAGCAATAAAACCATGTATTACAAGTTTAAAGAAATGAATTTATCCTAAAATCATCA GTATCAGCACCCCAACAAAGCAACTTTGCCATTTCTACTTAAAGTACACTGTAGCTTGAT CAGACACTTATCTCAGCAGTACTTGTAAAGCAGGTCTCTTTGTACAAAAGCAAAACAGA AAGCAAAACAAAATCCATAGCCATTATTTACCTTGACCCAGTAAAAGCCAAGAGATTTA AGGTAAGGACATTTTCTAATCCCATACCCATGCTAACATCATCAACATTGCTGATACAAA ACTCAGGTCAGGAAAAGAAGCTCAAACAGGGAAGGTGAGTGGCAACATTTTATGTATGCT AAATTGGATGGCAATATTAGATTACATCTTCTGCAACTGTGGTGTCAAAAATCTGATAGC AAATTTGATTATCTGTTCCATTTGTGACATTGTATGACTTGATGAAGCATTCCAACCACG GATATGCATCAATTTTTATTCCTGGAGGACAAAACATATCCATGATCATATCCACTTTT TCTGAAGTTCATCATCCATCAGAACTTCTGATGCTGGAATCTGGAAGAATTTGTGAGAAT CCATGAGATAGGCTTCTAGTACTCTGTTCCATCATCAAGTGTAAGGTCATAACAACACA TATGGNAGGGGTACATACCCAGTCTTCTGCCACAGAGAAGGATCCACCGATGTTTATCA CCANGGAATTTAGATTTGNATNGATCTCAAACAACTGNTACATCCTAGGGATGNAT TGGTCCTTGGATAAAAATGGGGCTGAAAGGTNCAAAGGTTCAAGTCTTCTGGGCCGATCT TCACGGATACACTTATAAACTTGTT</p> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_015450 |
| Insert Size: | 2930 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). |
| 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_015450.1](#), [NP_056265.1](#)

RefSeq Size: 2631 bp

RefSeq ORF: 1905 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 (1) encodes the longer isoform (1).