

Product datasheet for **RC202396**

POT1 (NM_001042594) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POT1 (NM_001042594) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POT1
Synonyms:	CMM10; GLM9; HPOT1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC202396 representing NM_001042594
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCTCTTTGGTCCAGCAACAAATTATATATACACCCCTGAATCAACTTAAGGGTGGTACAATTGTCA
ATGCTATGGTGTGTGAAGTCTTTAAGCCCCATATCTAAGCAAAGGAACTGATTATTGCTCAGTTGT
AACTATTGTGGACCAGACAAATGTAAAATAACTTGCCTGCTCTTTAGTGAAACTATGAAGCCCTTCCA
ATAATTTATAAAAATGGAGATATTGTTTCGCTTTACAGGCTGAAGATTCAAGTATATAAAAAGGAGACTC
AGGGTATCACCAGCTCTGGCTTTGCATCTTTGACGTTTGAGGAACTTTGGGAGCCCTATCATACTCG
CACTTCAAGCAAGTATTTAACTTCACTACTGAGGACCACAAAATGGTAGAAGCCTTACGTGTTGGGCA
TCTACTCATATGTCACCGTCTTGGACATTACTAAAATTGTGTGATGTTCCAGCAATGCAGTATTTGACC
TGACTTGTGAGCTCTTGGCAAAGCAGAAGTGGACGGAGCATATTTCTTCTAAAGGTATGGGATGGCAC
CAGGACACCATTCCATCTTGGAGAGTCTTAATACAAGACCTTGTCTTGAAGGTATTTAAGTCACATC
CATCGGCTACAAAATCTGACAATAGACATTTTAGTCTACGATAACCATGTTTCATGTGGCAAGATCTCTGA
AGGTTGGAAGCTTCTTGAATCTATAGCCTTCATACCAAATCAATCAATGAATTCAGAGAATCAGAC
AATGTTAAGTTTAGAGTTTCATCTTCATGGAGGTACCAGTTACGGTCCGGGAATCAGGGTCTTGCCAGAA
AGTAACTCTGATGTGGATCAACTGAAAAAGGATTTAGAATCTGCAAAATTTGACAGCCAATCAGCATTGAG
ATGTTATCTGTCAATCAGAACCTGACGACAGCTTTCCAAGCTCTGGATCAGTATCATTATACGAGGTAGA
AAGATGTCAACAGCTATCTGCTACAATACTTACAGATCATCAGTATTTGGAGAGGACACCACTATGTGCC
ATTTTGAACAAAAAGCTCCTCAACAATACCGCATCCGAGCAAAATTTGAGGTCATATAAGCCAGAAAGAC
TATTTGAGTCTGTAAACTTCATTGCCCTAAATGTCATTTGCTGCAAGAAGTTCACATGAGGGCGATTT
GGATATAATTTTTCAGGATGGTGCAACTAAAACCCAGATGTCAAGCTACAAAATACATCATTATATGAT
TCAAAAATCTGGACCACTAAAAATCAAAAAGGACGAAAAGTAGCAGTTCATTTTGTGAAAAATAATGGTA
TTCTCCCGCTTTCAAATGAATGTCTACTTTTGTAGAAGGAGGTACACTCAGTGAATTTGCAAACTCTC
GAACAAGTTAATAGTGAATTCCTGTGAGATCTGGCCACGAAGACCTGGAATTTTGGACCTTTCAGCA
CCATTTCTTATAAGGAACAATACATCACTATGGATGTAACAGTGTCTAGTTTGAGATCCATACAAA
ATCTAAATCCCTGGTTGATAAAAACATCGTGGATTCTTCTTCTGTGGCAGAAGCACTGGGTATTGTACC
CCTCCAATATGTGTTTGTATGACCTTTACACTTGATGATGGAACAGGAGTACTAGAAGCCTATCTCATG
GATTCTGACAAATCTTCCAGATTCAGCATCAGAAGTCTGATGGATGATGACCTTCAGAAAAGTGTGG
ATATGATCATGGATATGTTTTGTCTCCAGGAATAAAAATTTGATGCATATCCGTGGTTGGAATGCTTCAT
CAAGTCATACAATGTCACAAATGGAACAGATAATCAAATTTGCTATCAGATTTTTGACACCACAGTTGCA
GAAGATGTAATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC202396 representing NM_001042594
 Red=Cloning site Green=Tags(s)

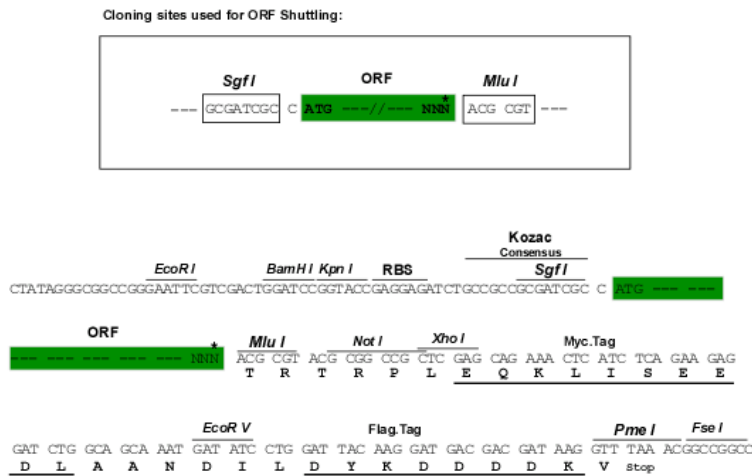
MSLVPATNYIYTPLNQLKGGTIVNVYGVVKKFKPPYLSKGTDYCSVVTIVDQTNVKLTCLLFSGNYEALP
 IYKNGDIVRFHRLKIQVYKKEQTGITSSGFASLTFEGLGAPIIPRTSSKYFNFTTEDHKMVEALRWVA
 STHMSPSWTLLKLCVQPMQYFDLTCQLLGKAEVDGASFLKLVWDGTRTPFPFSWRVLIQDLVLEGLDLSHI
 HRLQNLTIIDILVYDNHVVHVARSLKVGSLRIYSLHTKLQSMNSENQTMLSLEFHLHGGTSYGRGIRVLP
 SNSDQVQLKKDLESANLTANQHSVICQSEPDDSFSSGSVSLYEVECCQLSATILTDHQYLERTPLCA
 ILKQKAPQQYRIRAKLRSYKPRRLFQSVKLHCPKCHLLQEVPHGEDLDIIFQDGTATKTPDVKLQNTSLYD
 SKIWTTKNQKGRKVAHVHFKNNGILPLSNECLLIEGGTLEICKLSNKFNSVIPVRSGHEDLELLDLSA
 PFLIQGTIHGYGCKQCSSLRSIQNLNSLVDKTSWIPSSVAEALGIVPLQYVFMFTFLDDGTGVLEAYLM
 DSDKFFQIPASEVLMDDDLQKSVDMIMDMFCPPGIKIDAYPWLECFIKSYNVTNGTDNQICYQIFDTTVA
 EDVI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

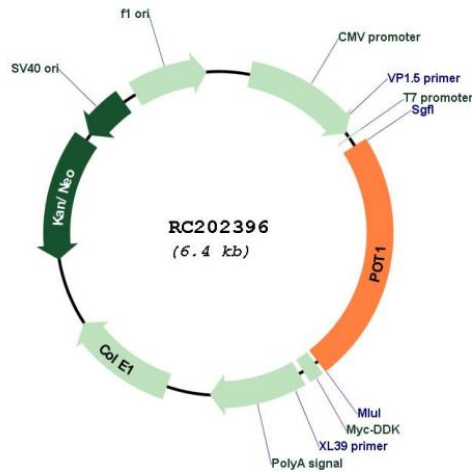
SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001042594

ORF Size: 1905 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_001042594.1](#), [NP_001036059.1](#)

RefSeq Size: 3964 bp

RefSeq ORF: 1512 bp

Locus ID: 25913

UniProt ID: [Q9NUX5](#)

Cytogenetics: 7q31.33

MW: 71.4 kDa

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]