

## Product datasheet for **VC100214**

### pol (AC\_000018) Virus Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	pol (AC_000018) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	pol
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC100214 represents NCBI reference of AP_000539 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCCTGGTACAGGCACACGGCGCTGGTAGCTTCCATCCCGAAGCCTCTGATCCGGGCTGCCAGCCCC  
CTCGGAGAAGGACTTGCGAATCCAGTCAAGGGGCGAGTCCCGGAGCCAACAAGGGCACGAAGGCGACGCAC  
TACAGCATCTCATGCCGAGGGTCTAGGGCGCGCCTGCCGAAGGTGTGCGCCTAGCACTCCCTGCTC  
AATATGCAAGAGGCTACCGAGCCCCCACTCAAAGAGGAAGAACAAGGGAACAGTAGTGGCCCCAAAGG  
GCCATGGGACTCTCCAGGCAATAGATATCAGTACTAACGGGCCAGTCGAGATTAAGTATCATCTTAATTT  
GCCTCACGCTCTGGAGAAAATCATGCAGGTGAACCTCCTCACACTGCCAACAAATCTGACCCACAGCGG  
CTGAGAACTCTGGACTCATCAGGACTGCGGGCTCTGGTGTGGAGCTGCGCCATGCCGCGCCGAAGTTT  
GGACATGTCTCCCAGGGGCTGGTGAGCATGACTACGATTGAGACAGAGGATGGACATGCAGACGCTGA  
TAATATTGTCGAACGCCAGGTTCAAGCCCTGGGCTCAATTTTCCACTGAAGTCTCTGGTTAAGGGAAGC  
CAGGTCCAGTTGATCCACGAAGTGCACCCGGTTAACCCTGTGAGTACTGCGGGCGGCTCTACAACATA  
AGCACGAATGTTCCGCCCAGCAGAGAGTTTTACTTCCACCACATCAACTCTCATAGCTCAAATTTGGTG  
GCAGGAAATACAATTTCTTCTATCGGATCACATCCCCGCACTGAGCGACTGTTCTCATTACGACGTG  
GAGACATATACTTGATGGGTAGTTTTGGCAAACAGCTCATCCCTTTCATGCTGGTGATGAAACTCAGCG  
GCGACCAGAGGCTCGTGAACATCGCCTATGATCTGGCAATGAAACTGAAGTGGGACCGCTGGAGACAGGA  
TCCCCAGACATTCTACTGCGTGACTCCTGAAAAATGGCAGTCCGCCAGCACTTCAGGCAATACCGAGAT  
CAATTGCAGACAGCGCTGGCGGTAGACCTGTGGTCTCATTCTCAAGGCTAACCCACGTCATGAGT  
GGGCTCTGGAACACTACGCACTGACCGATCCTACGGATCTCACTTTCGAAGAATTGAAAAACTGCCGCA  
TGTGAGAGGGACACCCCGTTCTGGAACCTTATATAGTCGGGCATAACATCAACGGCTTCGATGAAATA  
GTCCTGGCCGCACAGGTTATCAATAATCGCGCAGAAGTCCCCAGCCCTTTAGAATCACCAGGAATTTTA  
TGCCAGAGCTGAAAAAATACTGTTAATGACGTTACATTCGCCCTGCCGAATCCAGCCTACAAGAAAAAG  
AGTAGATTTTCAACTCTGGGAGCAGGGGATGTGACGACATGGATTTTAAAGTACCAAGTTTTTGAAGTG  
ATGGTGGGGACACCTTTGCTCTCACACATACCAGCCTGCGGAACCGCCACAGGCATACTCACTTCTG



[View online >](#)

TGGAGAAAGGATGTTGCCCTTACAAAGCTGTAATCAGTTCTACATGCTCGGGTCTTATCGAGCAGAGAA  
GGATGGCTTCCCCTGGAGGAGTATTGAAAGATCGAGAAGAGTATCTTCTGAACAGAGAGCTCTGGGAG  
AAAAAGTCTCAACCTCGATACGACATCATTGAGAAACACTGGATTATTGCGCCCTTGATGTTCTGGTTA  
CGGCTGAGCTCGTGGCAAAGCTCCAAGAATCATACGCACACTTCATCCGCGACTCTGTAGGCCTGCCACA  
CGCACACTTAAATATATTTCAAAGACCTACAATTAGCAGCAATTCACGCCATTTTCAGACAGATCGTG  
TATAGAGCAGAGAAGCCTAATCGAACCAACCTGGGTCTGGCCTCCTCGACCTTCTCACGAACTGTACC  
ACTACGTGAGGGCTAGCATTGAGGTGGACGCTGCTATCCGACATATATCGGCATCCTGGAAGAGCCTCT  
GTACGTCTACGACATCTGTGGCATGTATGCAAGTGGCTGACGCACCCCATGCCATGGGGAACTCCTCTC  
AACCCGTACGAGCGAGCTCTGGCAGTTAGGGAGTGGCAGATGACCCTCGACGATCCCAACAATTAGTT  
ACTTTGATAAAGACCTCTGCCCGGATCTTTACTATCGACGCTGATCCCCTGATGAGCTTATGTTGA  
CCCTCTCCACCATTTTGTAGTCGGAAGGGGGCCGCTTGTGTTGGACAAATGAGCCTCTCCGCGGCGAG  
GTGGCCACTAGCCTTACCTGATCACCTGCACAACCGGGGCTGGAGGTTTCGGATTGTGCCTGACGAGC  
TCACCACAATCTTCTGAGTGGAAAGTGCCTGCTCGAGAGTACGTGCAGCTCAATATCGCTGCCAAGGA  
GCGGGCCGACAAAGAGAAAAACCAGACCATGAGAAGCATGCCAAACTGCTTAGCAACGCCCTGTACGGC  
TCCTTTGCCACGAACTTGACAACAAAAAATCGTATTTAGCGATCAGATGGATGAAAGTTTATGAAAG  
GAATCTCCGCGGGCACCGTTAACATTAAGTCCAGTTCTTTCTCGAAACGGACAATCTCTCTGCCGAGGT  
CATGCCCGCTTTTGGAGAGAGAATATCTGCCACAGCAACTTGCCCTCCTCGACTCCGATCCTGAGGACTCA  
GAAGATGAACAGCGGCCCGCACCCCTTTTACACACCACCCCGCGGTACCCAGGCCACGTTGCTTATACCT  
ACAAACCTATCACTTTCTCGATGTTGAAGAGGGGGATATGTGTCTGCATACCGTAGAGAAGGTGGACCC  
CTTGGTGGATAACGATAGATACCCTTCTCACGTAGCTTCTTTGTAAGTGGCTGGACCAGAGCATTGTTG  
TCCGAGTGGGCCGATTCTGTACGAAGAGGATAGGGGCACCCGCTGGAGGATAGACCCATCAAAGCG  
TATACGGTGACACCGATTCTTTGTTTGTCACTCAACGGGGACACGACTTGATGGAGACAAAGGGTAAGAA  
AAGAATCAAGAAGCACGGCGGGAAGCTCGTGTTCGATCCTGATGAACCGGACCTGACCTGGCTGGTGGAA  
TGTGAGACAGTGTGCGCTAGTTGTGGTGTGATGCATACAGCCCGAAAGTATCTTCTCGACCCCAAGT  
TGTACGCCCTGAAGTGCATATACTGTCCAGCATGTCACAAGACTTCTAAGGGAAAACCTCGGGCAAAGGG  
CCATGCCCGCAGGCCCTGAACTACGAAGTGTGGTGAAGTGTATCTCGCGGATATGCAAGGAGCAGAT  
CGGCAGCGCTTTTCTACATCCAGAATGAGTCTGAAGCGGACACTCGCCTCCGCTCAGCCCGGTGCACACC  
CCTTTACAGTGACCGAGACAACCCTGACACGCACGCTGCGCCCTGGAAGGACCGCACACTGGCGGCTCT  
GGACGCCACAGGCTGATACCATACAGCAGAAGCCGACCAATCTCGCAATGAAGAAGTCTGCTGGATC  
GAGATGCCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >VC100214 representing AP\_000539  
 Red=Cloning sites Green=Tags

MALVQAHGAGSFHPEASDPGCQPPRRRTCESSQGAVPEPTRARRRRTTASHAAGSRAAPAARCAPSTPLL  
 NMQEATEPPPPKRKNKGTVVAPKGGHTLQAIDISTNGPVEIKYHLNLPHALEKIMQVNLTLPTNLTQR  
 LRTLDSGLRALVLELRPCRAEVWTCPRGLVSMTTIETEDGHADADNIVERQVQTPGLNFPLKFLVKGS  
 QVQLIHEVHPVNRCEYCGRLYKHKHECSARRREFYFHHINSHSSNWWQEIQFFPIGSHPRTERLFLTYDV  
 ETYTWMGSGFKQLIPFMLVMKLSGDQRLVNIAYDLAMKWKDRWRQDPQTFYCVTPEKMAVGQHFQRYRD  
 QLQATALAVDLWSSFLKANPHVHEWALEHYALTDPTDLTFEELKKLPHVRGTPRFLELYIVGHNINGFDEI  
 VLAAQVINRAEVPQPFRI TRNFMPRAGKILFNDVTFALPNPAYKKRVDFQLWEQGACDDMDFKYQFLKV  
 MVRDTFALTHTSLRNAAQAYSLPVEKGCPCYKAVNQFYMLGSYRAEKDGFLEEYWKDREYLLNRELWE  
 KKSQPRYDIIQETLDYCALDVLVTAELVAKLQESYAHFIRDSVGLPHAHFNIFQRPTISSNSHAIFRQIV  
 YRAEKNRNLGPGLLAPSHELYDYVRASIRGGRCYPTYIGILEEPLYVYDICGMYASALTHPMPWGTP  
 NPYERALAVREWQMTLDDPTTISYFDKDLLPGIFTIDADPPDELMLDPLPPFCSRKGGRLCWTNEPLRGE  
 VATSVDLITLHNRGWRVRI VPDELTTIFPEWKCVAREYVQLNIAAKERADKEKNQTMRSIAKLLSNALY  
 SFATKLDNKKIVFSDQMDESLMKGI SAGTVNIKSSSFLETDNLSAEVMPAFEREYLPQQLALLDSDPEDS  
 EDEQRPAPFYTPAGTPGHVAYTYKPI TFLDVEEGDMCLHTVEKVDPLVDNDRYP SHVASFVLAWTRAFV  
 SEWAGFLYEEDRGTPLEDRPIKSVYGD TDSLFTVQRGHDLMETKGKKRIKKGKLVFDPDPEPLTWLVE  
 CETVCASCADAYSPEIFLAPKLYALKCIYCPACHKTSKGLRAKGHAAEALNYELMVNICYLADMQGAD  
 RQRFSTSRMSLKR TLASAQPGAHPFTVTETTL TRTLRPWKDRTLAALDAHRLIPYSR SRPNRNEEVCWI  
 EMP

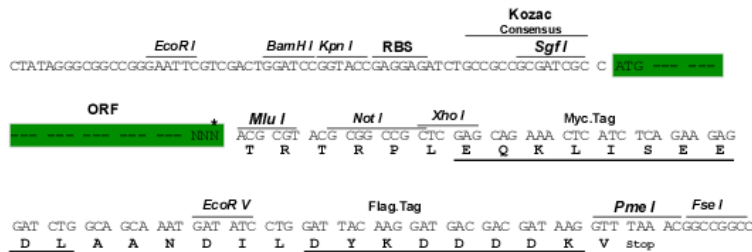
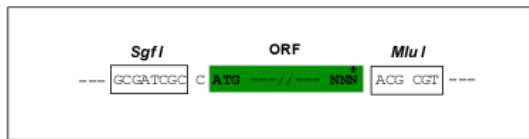
TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

ACCN: AC\_000018

ORF Size: 3579 bp

<b>OTI Disclaimer:</b>	The molecular sequence of this clone can be viewed by clicking the "ORF Nucleotide Sequence" link above. This sequence represents the NCBI reference after codon optimization for human cell expression, and retaining the same decoded protein sequence. The stop codon in the native sequence was removed to create the in-frame c-terminal fusion with a Myc-DDK tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">AC_000018.1</a></u> , <u><a href="#">AP_000539</a></u>
<b>RefSeq ORF:</b>	3579 bp
<b>MW:</b>	136.0 kDa