

## Product datasheet for **VC101357**

### U7 (NC\_001664) Virus Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	U7 (NC_001664) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	U7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC101357 represents NCBI reference of NP_042898 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**

ATGGATCTTGAGGCGAAAGAGATCTCCGGGAACATCCCAATGAGAACGCGCTCGCCGAACCTTTGTCGGC  
TGTGCGAGTCTGCTGACCTTTCCAGATCGAAAATTTGTGGGACGATATAAGAATTGGTGTCTCTCTAT  
TATATGGCCCCGGAAGTGTGGCTGCGCTCACACCCAGGAAAGACGTGGCCGGCTACACAGAGAAAATG  
TTTGAGGATATGGACGATCACTATCAAGGATTTGTCGAGAAAATTTGCTCTCTGGGGACCAATCAAATCC  
CATAACAGAGATGTTCCCATCTTATTGGTAGAAGTAAACGAATATTTCTCACGATCTGGAAACGGATAC  
CCTCCACTTCGTTTGGCACAACCTTTGAGCAATTTGTAAGATATGGGGTACTCGGAACTAACATCATCACG  
TGTGCCGAGCCCGTGTATCGGCATGGCCTCTACGAGGGACCCGATTTGAGTCCCTGGAGAACCTCATGA  
ACAACGATGTGCTTCGAAGTCCCTATACTCTGAATGTTTCATGTTAACTGAACCGCAAAGGGTCTTGGG  
GATTAAGCAATGCGGAAGCACTACATCGCCATGCTGCGCGAGTTTGACGAGCTGGCGAGGTGTGCTTCT  
CTGGACGACGTGGCCGGTTCGTGTCCTCAATGTTGGGAGAGATCTGAGACTGGACATGCCAGTGTTC  
AATCACTGACCCTGGGCACCAGAGACTCCGTTTGGACAGGTACCTGTCGACTCGAAACCTGAAGGAGCA  
GGAAGACCTGGTCGAGAAAGTTGTCGTGCTGGGTATCTTAATGATCACGACTATGAGAGCAAATGTACT  
CGCCCCATACTGTGATTGGCAAATCAGGCAAGATTTACTACTACGACTGGATTGATAATGTGCTGGTCA  
AGCTGGGAGACTGTCTTTGACCTTTCTTCGGGTTGGCTTTGCAAGATTGTTGCGAGATTACGGCTACGA  
GAAAATCGGAAAGATCTCCATGCGCTTCGGTTCGCATGTCCACCTTGGGAATGTCCGAAACATATCAAAGC  
TGATGTCACTGAAGATTGTCCCTGTCTGTAACGACGAATTTGCCCTGTCTCATGCGTGCCAACTG  
ATTTGACGTTGGACGCTCTGAGCGCCGCTACGGCGATGGTCTGGAAATCAGCAGTCCAGGGCTGCGGTG  
CTGCATCGCATGGCCACCTATGTACGCGCTGACCCTCGGCGAATTTACCATTCCACACGCATCGGTG  
GTTTCTGCATATGACTGGAGCTCTCTGCTGGACGACAGGAGTTCATGTCGCGAGTTGGATATGCTCACC  
CCATCTATAGAGATCCTAACCCGATTACGACCCTTATGTCATGCATCTCAACTGGTAAGCAGATAGC  
CGTAGATACAGTCACTGAAAAGTGTATATCATCGCTGAGTCTCTTGTGCAAGTCTTCAATATTGGGCTG  
AGACAATTCGCCATTTCGCCGAGGCTGAACTGGATCCGGAACAGGAGAAAATGTGGTTCGGTGAGACCA



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AATGCGGTCGCGAAGAATTCATTCTGCTGCAAAGGAACCTCCCCGCCATGAAGGACTATGTGGCAAAACA  
TTCCGGTAAGAGAATACGAGTCGACGCTTCCAGGACTTTGATTTTTCTTTTGTAGCCTGTCTGACATT  
TACTATCTCACGGGACCAGGGATCTTGGAGAAGATCACTGAGAAAAGATTACGCAATCATCGGAACCTGTG  
CCCGCAGCCAGGCAGAACCAAAATGCCGAGCAGCAATCGTGATGGGTTCTAACTGTCATATCTATATCTA  
TGTCGAGAACAAGATATCCAAGTATCCAAGTCCCTTCGCACCTTCATCCGGCGAGGATTCGACGAACTG  
CTGTATAAAGAGAATACTCACTGGATTGGAGTGATGACACACTTTTCTACATTAGTGACTACTGAGACCG  
AAAACCTGAATCGCATGCTTAATGGTGAACCTCCCTGTACTGAGATCCAAGCCGCGCCACATGTGTGTCAG  
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TATCCTAGCACCTACATCCGGGCCGACCAAAATGCTGATATGGTGAAGGACCTGAAGTTCATGGACAAC  
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GCGGATCGAGAGTTGCCTTATAGAACACTTTATGCTTCTTTGTGGGTGTGTGGAGTGCCGGCGGATGTT  
ATCATGTATAATAAGAGGGGAAGGAAATTCGACTTTGGACACAGTGTGAGAATCAATGTTTTCCCATGA  
TTGGATCCATTCCGCTTCCCGCTTCTGCACCTGGGTGAGCCATATGACGTATCCCTTAGCTCACTCAT  
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TGAACACCTTGTACAGAGTGATCAACGCTGAACCTGACATTTACTACGATCTTTTACAGAGGAAGTCGG  
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GTTGGGAGGCTCTGAGAATTGGATTACGCGTTCCTGCCTACAAAGACTACGACGAGACACCGTTCATGGA  
GATGTTCTTTATGACCACCTTCACATCAAGCGCTTCCACGAGGACAACGATCGGACCTGGTATCTTGT  
GACAACCTGATTCGCGATTTTTTCATAGTGAATACCGACGGAGAGAAATTTCTGCAGAGGCTTCAGAGAG  
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TAGTGGCTTGAAGTACTTCGGATCCGGCAACCATCGCGGTTTCCAGATCAGCCCTGAGAAGGATGTGCGG  
GCCATAGCTTATAAATTGGGTAGTCTCGACGTTCTCCGCGATGACTATAAGTATTATGAGTATACCCAC  
CCGACTGTCCCGGCGAACTGAACGGTACGGTGGCGATGAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
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Protein Sequence: >VC101357 representing NP\_042898  
 Red=Cloning sites Green=Tags

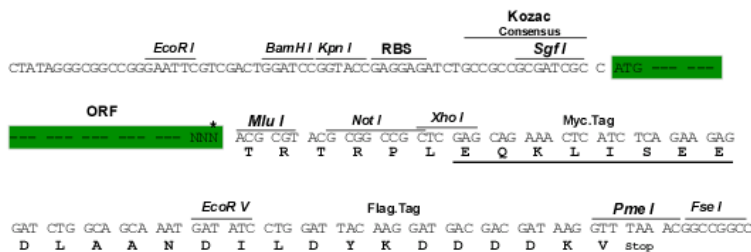
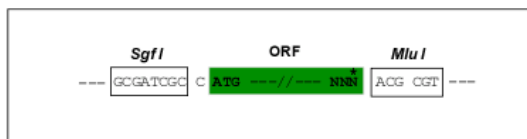
MDLEAKEISGNIPNENALAECLCESADLSQIENFVGRYKNWCLSIWPRNCWLRFTPRKDVAGYTEKM  
 FEDMDDHYQGFEKLCCLGTIQIPYRDVPIIGRSKRIFLHDLTDTLHFVCDNFEQFVRYGVLGTNIIT  
 CAEPVYRHGLYEGPRFESLENLMNNDVLRSPYTLNVHVKLNRRKGVLGIKAMRKHYIAMLREFDELARCAS  
 LDDVGRFVSLNVGRDLRLDMPVFKSLTLGTRDSVWTGTCRLANLKEQEDLVEKVVVLGYLNDHDYESKCT  
 RPILCIGKSGKIYYDWDNLVVLKGDCLLTFLRVGFARLFADYGYEKIGKISMRFGRMSTLGMSETYQS  
 CMSLKIYVPCNDEFALSSCVPTLDFDVDVLSAAYGDGLEISSPGLRCCIAWPPMYALTLGEFYHFHTRW  
 VSAYDWSLLDADEFMSAVGYAHPYIRDPNPDYDYPVMHTSTGKTIADVTVTEKVYIIAESLVQFFNIGL  
 RQFPPFAEAEALDPEQEKMWGETKCGREEFILLQRNLPAMKDYVAKHSGKRIRVDAFQDFDFSCLSDI  
 YYLTGPGILEKITEKDYAIIGTCARSQAEPNCRAAIVMGSNCHIYIYVENKISKVSKSLRTFIRRGFDEL  
 LYKEKYSLDWSDDTLFYISDTETENLRMLNGELPVLRSKPRHMCVRKDRLVKDRSKILFAVRLDEEDSP  
 TVKFITKFLTPFVGRPLPATNRFVVPVSRARLTNGLQGTAAARFGIKGLHPSSDCLVWNILVDYIYETK  
 YPSTYIRADQIADMVKDLKFMDNFNEKWQCITKLAFLGLYAGASLFNFTSKPTLGYWCRYLSEYASMLLF  
 QFESKLLKELTKESTRQLGGYNLCHWGQELKDLENKSDVFFRYDFFERIESCLIEHFMLLCGVCERRMF  
 IMYNKRGRKDFDGHSVRIQCFFMIGSIRLPAFLHLGEPYDVSLSLIAKDLGLSMIEGQIELSRLPISLQ  
 ISVTPDKKALLTFLTNIVFIVFVNTLYRVINAELDIYYDLFTEEVGKLCVAMEEEMKLRNGCLGDLCY  
 FSPMKQMKIIVRCPEKESQFILKCWEALRIGFSVPAYKDYDETPMEMFFMHLHIKRFHEDNDRDLVSC  
 DNLIPGFFIVNTDGENFLQRLQRVVLVVEDYL TNTRCINGTMAFFF SGLKYFGSGNHRGFQISPEKDVR  
 AIAYKLGSLDVLRDDYKYEYTPPDCPGE LN GHGGDE

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

ACCN: NC\_001664

ORF Size: 3681 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>	<a href="#">NC_001664.2</a> , <a href="#">NP_042898</a>
<b>RefSeq ORF:</b>	3681 bp
<b>Locus ID:</b>	1487887
<b>MW:</b>	141.5 kDa