OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for VC101461

U7 (NC_000898) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	U7 (NC_000898) 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 VC101461 represents NCBI reference of NP_050187 with codon optimized for human cell expression
Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGTAATTTCCGCCTGATCCTCGAAACAGAGGGGGGTAAAAGGGTGTTGTGTGAGAGCATCGTGCTTC
ACTTTGCCTTCATGTTTCAGACTGAGATAGTGCCCGTATGTAACGATGAGTTTACTCTGAGCAGCTGTGT
GCCGACTCTCGACTTTGACGTGGATGTGTTGTCAGCCGCCTATGGGGACGGTCTGGAAATCTCTTCACCC
GGCCTGCGATGTTGCATTGCATGGCCGCCAATGTATGCCTTGACTCTTGGCGAGTTCTACCACTTCCACA
CGCATCGATGGGTCTCCGCATACGACTGGTCTAGCCTCCTGGATACTGATGAGTTTTTGAGCGCCATCGG
CTACGCTCACCCTATTTATAGAGATCCCAATCCAGATTATGACCCCTACGTTATGCACTCTTCCACTGGA
AAAACCATTGCCGTCGATACCGTCACTGAGAAGGTGTATATCATAGCAGAATCATTGGTGCAGTTCTTCA
ATATCGGACTCAGACAGTTCCCCCCTTTTGCCGAGGCTGAACTGGACCCCGAACAGGAAAAAATGTGGTT
CGGCGAAACGAAATGTGGCAGGGAAGAGTTCATCCTCCTGCAGCGGAATCTGCCTGCCATGAAAGACTAT
GTGGCTAAACACTGTGGAAAGAGGATCAGGGTGGATGCTTTCCAGGATTTCGACTTCAGTTTCTGCAGTC
TGAGCGACATTTACTATTTGACTGGGCCTGGAATACTGGAGAAAATCACCGAGAAGGACTATGCAATCAT
CGGGACTTGTGCCCGAAGCCAGGCCGAGCCCAACTGCCGCGCCGCAATCGTAATGGGCAGCAATTGTCAT
ATATATATTTACGTGGAAAATCGGATCTCTAAAGTCTCAAAAAGCCTCCGGACCTTTATCCGCCGCGGAT
TCGATGAGCTTCTCTATAAAGAAAAGTATTCCCTGGACTGGAACGACGATACACTGTTCTACATCTCAGA
TACCGAGACTGAAAATCTGAACCGAATGCTGAATGGAGAGCTCCCAGTCCTGCGGAGCAAGCCTCGACAC
ATGTGCGTTAGGAAGGATCGCCTTGTGAAGGATAGGTCCAAAATTCTGTTCGCCGTGAGGTTGGATGAAG
AGGATAGCCTCACGGTTAAGTTCATAACAAAGTTTTTGACTCCCGTCTTCGTGGGCCGACTCCCGGCAAC
GTCCCGATTCGTAGTGCCAGTCTCCTGCGCCAGACTGACGAATGGACTTCAGGGCACGGCCGCAGCCCGG
TTCGGGATCAAGGGCCTGCACCCGTCATCTGATTGCGTGGTCTGGAATCGCTTGATTGATTATGAATACG
AGACTTATAAGTATCCTAGCACCTACGTCCGGGCAGACCAGATTGCGGATATGGTAAAAAACCTGAAGTT
CATGGATAATTTCGATGAAAAGTGGCAGTGCATTACCAAATTGGCATTCATTGGACTCTACGCTGGGGCC
AGCCTGTTCAATTTCGCCAGCAAACCGACCCTTGGCTACTGGTGCCGGTACCTTTGCGAATATGCGTCAA
TGCTGCTTTTCCAGTTTGAGTCAAAGCTGAAGGAACTGACAAAGGAATCAACCCGACAGCTCGGAGGGTA
TAACCTTTGCCACTGGGGGCAGGAACTGAAAGACTGCCTCGAAAACAAGAGTGACGTATTTTTCCGGTAC
GATTTTTTTGAGCGAATAGAGTCTTGCTTGATAGAACATTTTATGCTCTTGTGCGGCTGTGTCGAATGTC
GACGCATGTTCATCATGTATAATAAAAGGGGGCGGAAGTGTGATTTTGGCCATTGTGTTCGGATCCAGTG
CTTCCCTATGATCGGCAGTATTCGACTTCCAGCGTTTCTTCACCTCGGGGAACCTTACTCCGTGTCCCTC
TCCAGCTTGATTGCCAAAGACCTGGGCCTGTCTATGATAGAGGGCCAGATAGAGCATAGTAGATTGCCCA
TCAGTCTGCAAATATCTGTTACCCCTGACAAGAAAGCGTTGCTTACCTTTTTGACCAATATCGTGTTTAT
CGTGTTCGTCGTCAACACACTTTATCGGGTGATCAATGCAGAGCTTGACATCTACTACGACCTTTTCACC
GAAGAGGTGGGCAAGCTCTGCGTTACAATGGAAGAAGAGATGAAGCTGGGGAGAAACGGCTGTCTGGGTG
ATCTTTGTTATTTTTCCAGCATGAAACAAATGAAGGAGATAGTGCGGTGTCCAGGGGAGAAGTCCCAATT
CATTCTGAAGTGCTGGGAGGCGCTGAGGATCGGGTTTTCCGTGCCCGCATACAAGGATTATGACGAAACG
AGATTCATGGAGATGTTTTTCCTCCACCACCTGCACATTAAAAGGTTCCACGAGCACAATGACCGCGATT
TGGTGTCTAGTGATAATCTGATCCCGGGGTTTTTCATCGTGAACACCCACGAAGAGAACTTTCTTCAGCG
ATTGCAACGGGTTGTCCTGCCTGTAGCCGAAGACTACCTTACAAACACACGGTGCATTAATGGAACGATG
GCTTTCTTTTTTAGCGGGCTGAAGTATTTTGGGTCTGGGAACCATAGGGGTGTACAGATCTCCCCCGAAA
AGGACGTGAGGGCAATTGGCTACAAACTTGGATCATTGGACGTGCTGCGAGACGACTATAAGTACTACGA
ATACGCCCCTGACTGTGCCGGCGAGCTCAATGGACACGACGGTGACGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

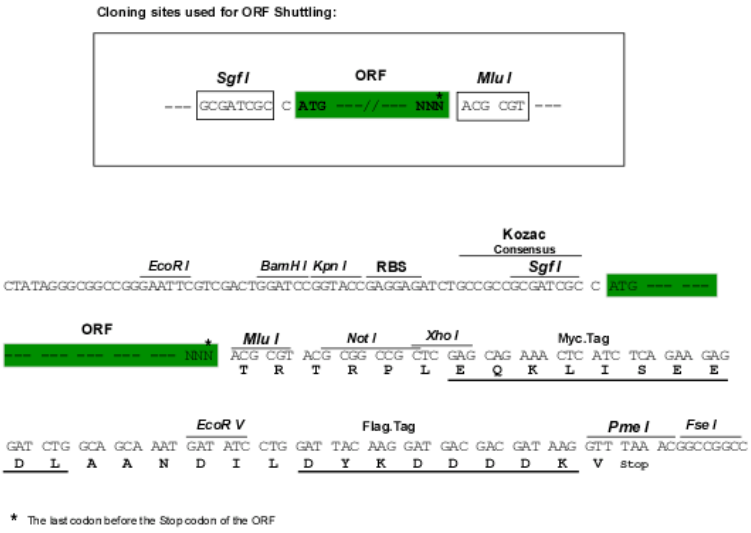
>VC101461 representing NP_050187
Red=Cloning sites Green=Tags

MSNFRLILETEGGKRVLCESIVLHFAFMFQTEIVPVCNDEFTLSSCVPTLDFDVDVLSAAYGDGLEISSP
GLRCCIAWPPMYALTLGEFYHFHTHRWVSAYDWSSLLDTDEFLSAIGYAHPIYRDPNPDYDPYVMHSSTG
KTIAVDTVTEKVYIIAESLVQFFNIGLRQFPPFAEAELDPEQEKMWFGETKCGREEFILLQRNLPAMKDY
VAKHCGKRIRVDAFQDFDFSFCSLSDIYYLTGPGILEKITEKDYAIIGTCARSQAEPNCRAAIVMGSNCH
IYIYVENRISKVSKSLRTFIRRGFDELLYKEKYSLDWNDDTLFYISDTETENLNRMLNGELPVLRSKPRH
MCVRKDRLVKDRSKILFAVRLDEEDSLTVKFITKFLTPVFVGRLPATSRFVVPVSCARLTNGLQGTAAAR
FGIKGLHPSSDCVVWNRLIDYEYETYKYPSTYVRADQIADMVKNLKFMDNFDEKWQCITKLAFIGLYAGA
SLFNFASKPTLGYWCRYLCEYASMLLFQFESKLKELTKESTRQLGGYNLCHWGQELKDCLENKSDVFFRY
DFFERIESCLIEHFMLLCGCVECRRMFIMYNKRGRKCDFGHCVRIQCFPMIGSIRLPAFLHLGEPYSVSL
SSLIAKDLGLSMIEGQIEHSRLPISLQISVTPDKKALLTFLTNIVFIVFVVNTLYRVINAELDIYYDLFT
EEVGKLCVTMEEEMKLGRNGCLGDLCYFSSMKQMKEIVRCPGEKSQFILKCWEALRIGFSVPAYKDYDET
RFMEMFFLHHLHIKRFHEHNDRDLVSSDNLIPGFFIVNTHEENFLQRLQRVVLPVAEDYLTNTRCINGTM
AFFFSGLKYFGSGNHRGVQISPEKDVRAIGYKLGSLDVLRDDYKYYEYAPDCAGELNGHDGDE

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_000898

ORF Size:	2709 bp
OTI Disclaimer:	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.
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:	NC_000898.1, NP_050187
RefSeq ORF:	2709 bp
Locus ID:	1497021
MW:	104.2 kDa