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Product datasheet for VC101549

U7 (NC_001716) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	U7 (NC_001716) 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 VC101549 represents NCBI reference of YP_073749 with codon optimized for human cell expression
Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAAAATTTTGAGACTATGGCCGAGCAGTACAAGACGTTGCCCTGTGTTGGCCAGCTGAACGATGGGC
TTCTGAGAGAGCTTAAGAACCTGTGTCGGTTCACAGACTTCCCCGGAATACGCCTCCTGACAGAACGGCA
TCGCAACGAGTGCCTGAGCCTGATATGGCCGAAAAACTTGTGGCTGCGCCTCGCACAGCCTGTGGATGTT
GCAGGGTACAGCGAGCAGCAACTGGCAGAACTCAACGACCACTATCAGGGTTTCAAGGAGAACCTCTGCC
TGATTGGGGCCATTCAGATCGGCCGGAAAGATGTTCCTATCTTTGTAGGTAAGAGTTCCAGAATCTTTTG
TCATGATCTTGAGGACGACGTACTTTATTATATCGCCGAAGACTTCGACAAGTTCGTCAGGTTTGGGATC
CTGGGCACCAACGTGATAACCTGTTCAGAGCCCGTCTACACCAGGTTCTACTATGACGGGCCAAAATTCG
AAAAACTTGAAACGCTTAAAGACCTCGGGCTTCTGCAGGAACCGCTGAACTTGAATTCATCTCTGCGGTT
CAACCGCAAGACTGCTCTCGCGCTTAAGGCACTCAGGCGCAATTACATTTCAATGCTGAGCGAGCTCGAT
GAACTGGCTCGGTGTAAAACCCTTGCTGAGATCGAACATTTCGTGAGCATCAACACAGGCCTGAAACTGA
GATTGGAAACGCCTATCTTTACTGCTCTCATCTTGCAAGATCGCAAGAATATTCATTGTGGCACTAGCGA
CCAAAAGCGCTTCGAAGAGCAGGAAGCACTGTTCGAAAAGGTGGTTGTGCTGGGCTTCCTCAATATCTCC
GCAGAGGACTACGGACTGCGGCCCATCCTCTGCATAGGCGAGACCGGGGCAATCTACTACTACGATTGGA
TTGATAAAGTACTTACCCGGATCGCGGACTGCCTGCTGACGTTTGCCAGAATTGGTTTTGCCAGGTACTG
CGGCGATTTTGGGTACGATAAAATTGGAAAAGTCACAGCACGATTCGGTAGGCTGAGCACCCTGGGATCC
GCCCCTGTGCAGCAGTACTCCTGGTATCTTAAGATTGTGCCCGTTTGTAATGACGTCTGCATCGAGCCCA
CTCCGGATCTCCCTTCCTTCGACTTTGCGGTAGAGCTGCTCCTTTCCTCTTACGGAGAGGGGATGGAAAT
CGTGCGGAATGGGATAAAGTGCTGTCTGGCCTGGCCCCCCAATTACGTGCTGATATTCGGGGAATTCTAT
CATTTCAAGTGTAGACGGTCTGTGATAACCTACGACTGGTCCAACCTCGTCGGGGCAGATGAGTTTCTGT
GCGCAGTTGGCTACGCTCACCCAAACTATCGCGAGCCCGACCCCGACTTCGACCCCTTCGTCATGTACTG
TTCAAGTAACAAGATGCTCGCTCTCGACACCGTGACAGATGAACTGTACATTATTGCTGAGTCACCTGCA
CATTTCTGCTCAATCGGTCTGAGGAATTTTCCCCCTTTCGCAAGAATAGAGCTTGACATCGAACTGGACA

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GGCTCTGGTACGGAGAGACAAAGTGCTCAGGCGAGGAGTTTGTGCTTCTCCAGAAAAACATTCCGGCCTT
GAAGAATTTTGTCAACAGACAGTGCGGCCAGAAAATCAGGATAGACGCTTTTCAAAACTTTGATCTGTCA
TTCTGCTCCAGCAACGACATCCACTATATTACCGGGTCCGGGATTCTGGAGAAGATCCTGCGCAGAAAAT
ACGTGGTGATTGGAACTTGTGCTCGCTGCCAAGTGGAACCTAATTGCAGAGCCGTAATACTCTTGGGTCC
AAACTTTCATATCTACGTGTACTGCGATAATAAGATCAACAAAGTGGCCAGAAGCATCCGGGAATTTATT
AGGAGGGGTTTCGAAGAACTGCTCTACAAAGAACGCTATGCTCTGAACTGGCACGATGACAGCCTCATTT
ATGTCTCCGAAAGCGAAGCCGAAAACTTGAACCGGATGCTGAACGGGGAGTCCCCAATTCTGAGGAAGAA
ACCCCGCCACATGTACCCCAGGTGCGACAGACTGCTTAAAAATATGCCGTCAATCCTCTTTGCAGTGCAC
TCATCCGAAATCTCCAACCCTCTTGTACAGAGTGTCACAAAGTTCCTTCATCCAATCATTATCCCTAACG
GCGATACAGAGCTGAAGTACATCGTGCCTGTTACTGAATCCCGGCTTATTAATGGCTTGCAAGCCAGTGC
CGCCGGACGGTTCGGAATCAAGGGTTTGAGGCTGTGTAGCGACGGTGTGATCTGGAATAGACTGATCGAT
TACGAATATGAAATGTTCAAGTACCCTTCTACCTTTACTAGAGCCGACAAGTTTTTGCTTCAGCTGAGAG
ATCTTAAGTTCATGGAGGATTTCGACCCGAAGTGGCAGTGCATCACGAAACTGGCGGCTGTGGGTTTTTA
TTCAGGCGCCTCCTTGTTTAATCTCGGTGCCAAACCAGGGATCGGCTATTGGTGTCGCTATCTGTGCGAG
TATCTGAGCATGCTGTTCTTTAAGCTGGACGGCAAACTCAAAGAGTTGAGTAAAGAGAGCAAACAGAAAC
TGGGCGGATTCTCCTGTGCCTTTTGGTCCGAGAGTTTTAAGACTGAGATGCAGAACAAGACTGAAAGCTT
CTTTCGCAGGGATTTTTTTGACCGGTTTCAGCTGTATCTTCTTGAGCACTTCCTTCTGTTCTGCGGCTGT
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AGCTGCACTTTTTTCCTGCCCTTGGCAAAATCGACCTCCCTATCTTTCCGCATCTGTCCGAAAAATATTC
CAATCTGAGCATGTTTGTGGCAAAGGACCTGTGTCTGTCTTTCATCGAAGGACAGATCGAGCATTCCAGG
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TGTTTTTGCTGTTCATTATCCAGACACTGAACAGCGTGTTGTTCACAGAGCTGAAGATGTATTACGACGT
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ATGAACAATATTGTGTATTTTAACATGCTTAAACAGGTGAAGGACATTGTGCGAAACCCCGGAACAAGCA
GTAACTTCATATTCAACTGCCTTGAGGTCATCAAAATGTCTTTTGAAATCCCGTACTACAAGAACTACGA
TGAAACTAACTTCATGGAGAGTTTTTACCTCCACCATCTGTACATCCAGCGACAACCAGCAAAGCATACC
GATCTGGTTGCCGCTAACAACCTGGCCCCGGGCTTTTTTATCGTGAATGCTAAGGAGAAATCTTTCATCG
ACGTTCTGGAGCGATCAATTGTGAACATTGAGGCTGAATACCTCAGTAACACTAAAAACATCAACGGTGC
TATGGCTCTCTTCTTTAGCGGACTCAAATACTTTGGAAACTTCGGAAACGGTAACTTCCAGACATCTCCA
GAGAAGGACGTACGCGCGGTGGGCTATAAGCTGGGCGGACTGGATAAAATACAGAACGACCTGTGTTATT
TCGCCAACGTAGAAACTCTCGCGTGCGTGGGCGTTGATGCCAGCGATGGAAACGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

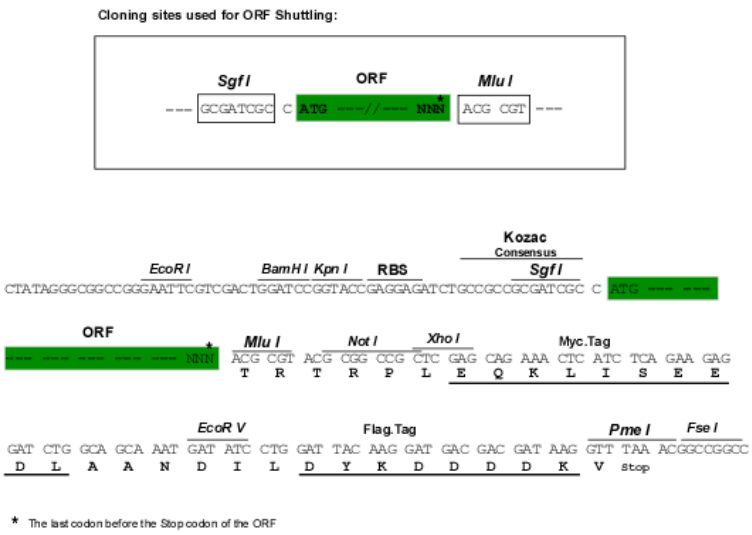
>VC101549 representing YP_073749
Red=Cloning sites Green=Tags

MKNFETMAEQYKTLPCVGQLNDGLLRELKNLCRFTDFPGIRLLTERHRNECLSLIWPKNLWLRLAQPVDV
AGYSEQQLAELNDHYQGFKENLCLIGAIQIGRKDVPIFVGKSSRIFCHDLEDDVLYYIAEDFDKFVRFGI
LGTNVITCSEPVYTRFYYDGPKFEKLETLKDLGLLQEPLNLNSSLRFNRKTALALKALRRNYISMLSELD
ELARCKTLAEIEHFVSINTGLKLRLETPIFTALILQDRKNIHCGTSDQKRFEEQEALFEKVVVLGFLNIS
AEDYGLRPILCIGETGAIYYYDWIDKVLTRIADCLLTFARIGFARYCGDFGYDKIGKVTARFGRLSTLGS
APVQQYSWYLKIVPVCNDVCIEPTPDLPSFDFAVELLLSSYGEGMEIVRNGIKCCLAWPPNYVLIFGEFY
HFKCRRSVITYDWSNLVGADEFLCAVGYAHPNYREPDPDFDPFVMYCSSNKMLALDTVTDELYIIAESPA
HFCSIGLRNFPPFARIELDIELDRLWYGETKCSGEEFVLLQKNIPALKNFVNRQCGQKIRIDAFQNFDLS
FCSSNDIHYITGSGILEKILRRKYVVIGTCARCQVEPNCRAVILLGPNFHIYVYCDNKINKVARSIREFI
RRGFEELLYKERYALNWHDDSLIYVSESEAENLNRMLNGESPILRKKPRHMYPRCDRLLKNMPSILFAVH
SSEISNPLVQSVTKFLHPIIIPNGDTELKYIVPVTESRLINGLQASAAGRFGIKGLRLCSDGVIWNRLID
YEYEMFKYPSTFTRADKFLLQLRDLKFMEDFDPKWQCITKLAAVGFYSGASLFNLGAKPGIGYWCRYLCE
YLSMLFFKLDGKLKELSKESKQKLGGFSCAFWSESFKTEMQNKTESFFRRDFFDRFQLYLLEHFLLFCGC
EECRYNFFRFKNVGTMKKNPGSVKLHFFPALGKIDLPIFPHLSEKYSNLSMFVAKDLCLSFIEGQIEHSR
FPISVTVDMGQDKRNLLNILSNIVFLLFIIQTLNSVLFTELKMYYDVYLDELKNLESSMECEMKLGSKGC
MNNIVYFNMLKQVKDIVRNPGTSSNFIFNCLEVIKMSFEIPYYKNYDETNFMESFYLHHLYIQRQPAKHT
DLVAANNLAPGFFIVNAKEKSFIDVLERSIVNIEAEYLSNTKNINGAMALFFSGLKYFGNFGNGNFQTSP
EKDVRAVGYKLGGLDKIQNDLCYFANVETLACVGVDASDGNE

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NC_001716

ORF Size: 3696 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_001716.2, YP_073749
RefSeq ORF:	3696 bp
Locus ID:	3289467
MW:	141.9 kDa