

Product datasheet for **VC100830**

UL42 (NC_001806) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	UL42 (NC_001806) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	UL42
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>VC100830 representing NP_044644, **codon optimized**.
 Due to the complexity of NP_044644, the ORF clone is codon optimized for mammalian Expression.
 The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGACCGACTCTCCCGCGCGCTGGCTCCCGCATCCCCAGTCGAGGACGCCTCTGATGCGAGCCTTGGT
CAGCCAGAAGAGGGCGCACCGTGCCAGGTAGTTCTTCAGGGAGCCGAGCTGAATGGGATTTGACGGCG
TTTGCCCTTTGAGGACGAGTCTGCTTGTAGCCTTCTGGTCATGGGGATCGGGGTATACTCATTAC
AATACTATCTTTGGTGAAGGAGTGTCTGCCGCTGGAACATCCAGTTTTCCCGGTATCGCTGGCGA
GGACCGACCGCCGATTTTTGAGCCTTGTGCATCAGAAACGGTCCCTCCTGTCCGTGTTTCGAGCCAAC
CAGTACCCGGATCTCGGAGAGTCGAGCTGGCAATAACTGGCAAGCCCCATTTAGGACGCTCGTTCAG
CGGATTTGGACAACAACGAGCGATGGGGAGGCAGTGGAACTGGCTAGCGAAACCCCTTATGAAGAGGGAA
CTGACAAGCTTTGTTGTCTGGTCCCGAGGGTACACCAGACGTGCAGCTGAGACTGACGCGGCCTCAA
CTTACTAAGGTCCTTAATGCAACAGGCGCTGACTCTGCTACCCCAACCACCTTGAAGTGGGCGTTAAC
GGCAAATTTCTGTGTTACGACTTCCACTTGTGTGACTTTCGCAGCTAGGGAAGAAGGGGTGAGTAGC
AGTACAAGTACCCAGGTGCAGATACTGAGCAATGCACTGACCAAGGCCGGTCAAGGCTGCGGCCAACGCC
AAAACGGTATACGGAGAAAACACGCATAGGACATTCAGCGTAGTTGTTGACGACTGTTCTATGAGGGCC
GTGTTGCGGCGGTTGCAGGTAGGTGGAGGACCCCTGAAATTTTCTCACAACCCCTGTGCCTAGCCTC
TGCCTGACCGCCACAGGACCTAACCGGCTCCCGCGGTGTTCTTTTAAACCCAGAAGATATGCCTG
GACTGGCTCGGCCATAGCCAGGGATCCCCTAGTCTGGGAGCTCAGCAAGTAGGGCTCCGCGCCGAA
CCCACTGATTCACAGGATTCAGCTAGCGACGCTGTCTCACATGGTGACCCCTGAGGATCTCGACGGTGCC
GCTCGCGCAGGGAGGCCGGGCTTGCATGCGTGCCCTATGCCATCCAGCACAACAAGAGTGACACCA
ACCACTAAACGCGGCAGATCCGGTGGCAGGACGCTAGAGCAGATACTGCTCTCAAGAAGCCGAAGACA
GGTAGCCCCACCGCCCTCCTCCAGCGGATCCTGTACCCCTTGATACAGAAGATGACTCAGATGCAGCC
GACGGGACAGCGGCCGACCTGCCGCTCCCGACGCAAGATCAGGCTCTGCTACGCTGCTACTTTCAGA
GATCTTCTACTGGCGAGGCAAGTCCCGCGCTTTTTCCGCATTCAGGGGCGGACCCGACACCTTAC
GGATTCGGGTTCCCT
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Protein Sequence:

>VC100830 representing NP_044644
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MTDSPGGVAPASPVEDASDASLGQPEEGAPQVVLQGAELNGILQAFAPLRTSLLDLLVMGDRGILIH
NTIFGEQVFLPLEHSQFSRYRWRGPTAAFLSLVDQKRSLLSVFRANQYPLDRRVELAITGQAPFRTLQ
RIWTTTSDGEAVELASETLMKRELTSFVVLVPQGTDPVQLRLTRPQLTKVLNATGADSATPTTFELGVN
GKFSVFTTSTCVTFAAREEGVSSSTSTQVQILSNALTKAGQAAANAKTVYGENTHRFTSVVDDCSMRA
VLRRLQVGGGTLKFFLTPVPSLCVTATGPNVSAVFLLPQKICLDWLGHSGGSPSAGSSASRASGSE
PTDSQDSASDAVSHGDPEDLDGAARAGEAGALHACPMPSSTTRVTPTTKRGRSGGEDARADTALKPKPT
GSPTAPPADPVPLDTEDDSDAADGTAARPAAPDARSRSRYACYFRDLPTGEASPGAFSAFRGGPQTPY
GFGFP
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NC_001806

ORF Size: 1464 bp

OTI Disclaimer: 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: [NP_044644](#)

RefSeq ORF: 1464 bp

Locus ID: 2703407

UniProt ID: [P04413](#)

MW: 51.2 kDa

