

Product datasheet for **VC101404**

U54 (NC_001664) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	U54 (NC_001664) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	U54
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>The Viral ORF clone VC101404 represents NCBI reference of NP_042947 with codon optimized for human cell expression
 Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGCCCGCTACACTCCAATGGTCCTCTATGTGCTTCAGTTGAGAGTGACCACCACCGGATACTTA
 AACCCGGCGAACTCCGCTTGTTAAATGCGGATTGGGCATCACGCCACCTTCCAGTGCCGTTGTTTGCAT
 TTGTCGAGATGAATCTTCTTCACTTCCAGTCCGTTACGTATATTGACCCGAAGGACTATGGCAATATC
 CCATTCGAGTGCAGAATATCAGCGACCTCGATCTCGACTTGTCTCGGCTTCCCATTGTTCTCAACATCT
 TCGCCTTGCCCCATGCCAATGTTAATATCTCCAATTTGCCAGTGCAGCGAATTGAGGCCATGACAGACA
 TATCATCCACATGGGCAGTGTGACGCCAAATTCGTGATCTATGGACCTCTGACTCGCATTAAAAACAG
 GTGGCAGATATCCGATGGATCGAGCAGACCCGAAGAGCCAACGAGGTACAGTTTTAAAGCAGAGATCT
 GGGTGAACCTCCAAAACAGCCTCTTGACCAGATCTTTAAGACCCGGAACATAGAGTTTCATCAGTCATAA
 GAATGTATACATATCAAGAATCCTCTTTGCGGCAACCTCCTTATCCTGAAGGCCAATTACGAAAACGAC
 TATCTCTGGACGATAACTTTTACCCAGAACAGCTGGCCATCCAATTAGCCTGACCCACAGACCGCCG
 ACATAACGTTGAGTCAGAATCAGGAAACATTGCTTAAATGCAACACCCATAGCATCACCGTGTGTCTAC
 TAAGAACATCATACCGAATACTGTTACACCTGTTCACTGCTCCTTCAACACAATCTTCAATTCACACAGC
 AACTTCACAGGCCTGTTTATACCAAAGCTCCTGCTGGGCATCAGCACGACGACAGGAATTTGGGATGAGA
 CACGGCCGCTCTATAACCATGAAAGCTTTCAAGAAAAATAGGCGCATCAATTATTCACAGCCGATCGG
 TGTTGTTACTTTTTCTAAACAGATCTTGCCACCAGGAAACAACGTTGAGTTCAATTTGACAGAAAGCC
 TCCAAAATTTACGTTAATACAGAGTCACCAACGGGCTGTCCGCAACACAGTGACATTACAAAACGAGG
 CCGTGCTTCGCACCCCGCCTGAGCACGGTTGCCAACCTGACTCCTGACATAAACATGGGAATATTCTCT
 CTAAGCCTCAGGTGGCCTTTGACACTGCGCACATGGTTCTCTGACTTTAGCCTGAAGCCAGGAGAG
 TCTACTAGGATGGAATTCATGCCCCCTGGGACCCCTCAGAATCTGACCATTCTCGAGGGCGATGTTGGTA
 TCCACTTCATACCCTGTCAACCCTCACATCGGTCCTCTCCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC101404 representing NP_042947
 Red=Cloning sites Green=Tags

MQPATLQWSSVYLQLRVTTTAILKPGELRLFKCGLGITPPSSAVVICRDESSFTSSPFTYIDPKDYGNI
 PFAVQNISDLDDLRLPIVLNIFALPHANVNISNLPVQRIEAHDRHIIPHGQCDAKFVIYGPLTRIKIQ
 VADIRWIEQTPEEPTRYFKAEIWNLQNTPLDQIFKTGNIEFISHKNVYISRILLCGNLLILKANYEND
 YLLDDNFYPEQLAIQISLTPQTADITLSQNQETLLKCNTHSITVCATKNIIPNTVTPVHCSFNTIFNSNS
 NFTGLFIPKLLLGISTTTGIWDETRPLYITMKAFKKNRRINYSQPIGVVYFFPKQILPPGNVVEFNWTEA
 SKIYVNTESPNGPVRNTVFTNQAVLRTPSLSTVANLTPDINMGIFLSSLRVAFDTAHMVPLHFSKLPGE
 STRMEFMPPGTPQNLTILEGDVGIHFIPCHNHSRSP

TRTRRLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NC_001664

ORF Size: 1374 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_001664.2](#), [NP_042947](#)

RefSeq ORF: 1374 bp

Locus ID: 1487936

MW: 51.5 kDa