

Product datasheet for VC100962

ORF21 (NC_001348) Virus Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ORF21 (NC_001348) Virus Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ORF21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>The Viral ORF clone VC100962 represents NCBI reference of NP_040144 with codon optimized for human cell expression Red=Cloning site Blue=ORF Green=Tags(s)

GACGTTGTATACGACTCCTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGAGCCCATCTGTTATGATACACAGAAGCTCCTCGACGACTTGAGTAATCTGAAAGTCCAAGAGG
CTGACAATGAGCGCCCATGGTCTCCAGAGAAGACCGAAATCGCCAGAGTGAAGGTGGTGAAGTTCCTGCG
CAGCACCCAAAAATACCCGCAAAACATTTTATACAGATTTGGGAGCCATTGCATTCTAACATTTGCTTT
GTGTACTCCAACACTTTCTCGCAGAAGCTGCCTTTACCGGGAAAACCTGCCTGGACTGCTCTTCTGGA
GGCTGGATTTGGATTGGACAATAGAGGAACCTGGCAACTCACTGAAAATATTGACCCAGCTCTCATCTGT
TGTACAGGACTCAGAAACCCCTCACCGATTGAGCGCTAACAAAGCTGCGGACATCTTCAAAATTTGGGCCA
GTCAGCATACATTTATCATAACAGACTGGATCAATATGTACGAGGTGGCCCTTAAGGATGCCACAACAG
CCATCGAAAGCCCTTACGCATGCTCGCATAGGGATGCTCGAGTCCGCCATTGCAGCGCTGACGCAGCA
CAAGTTCGCTATTATTTATGATATGCCGTTCTGTCAGGAAGGAATTCGCGTTTTGACGCAGTACGCAGGG
TGGCTTCTCCCTTCAACGTCATGTGGAACCAATCCAGAATAGCTCCTTGACACCCCTGACTAGAGCCC
TGTTTATAATCTGCATGATCGATGAATATCTGACGGAGACCCCGTACACTCTATCAGCGAGTTGTTTGC
GGACACTGTGAATCTGATCAAAGATGAAGCCTTTGTCAGCATTGAAGAAGCAGTTACCAATCCCAGAACC
GTCCACGAGAGTCGCATAAGCTCAGCACTGGCTTACAGAGATCCCTACGTGTTTGAACATCACCTGGGA
TGCTCGCTCGACGCCCTCAGACTCGATAATGGAATATGGGAGAGCAACCTGCTTCCCTTAGTACTCCCGG
GATACACATCGAGGCATTGCTTCATCTCCTGAACTCCGATCCCGAAGCGGAGACCACAAGCGGTTCTAAT
GTGGCCGAGCACACACGGGGCATCTGGGAAAAGGTCCAGGCTAGCACCTCCCAAGCATGCTTATTTCCA
CTCTGGCCGAAAGTGGGTTACCCGCTTTCAGTTGCAAGCTCCTGAGGCGGTTTATCGTCCATCATACT
TGCGGGGTTTCATTACGGCAGCGTGGTGGCTGACGAGCATATTACCGACTTTCACAGACTTGGCTGC
CTCGCATTGGTCGGCGGTCTGGCCTATCAGCTCGTAGAAAACATACGCGCCACCACCGAGTACGTCCTCA
CATACACAGCGACCGTGAACGAGACCGGAAACGATACGAAACTCTGCTGCCCGCTGGGACTCCCCC
CGGGGCTGGGACAAATCATGAGACGCTGCTTTGCCCCAGACCTCTCATAGAATCTATTACGGCCACA
AGAGTGATCCTTCTCAATGAAATCAGTCACGCTGAGGCACGCGAGACGACATATTTCAAGCAGACACATA



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ACCAGAGTTCTGGCGCCCTCCTTCTCAAGCCGGCCAGTCAGCCGTTAGGGAGGCCGTGCTGACCTGGT
 TGATCTGCGGATGGACTCAAGATGGGGATTACGCCCCCGTCGATGTGGGGATGACCCCCCTATATGT
 GTTGACCCACCAGCCACAGGTTTGAAGCAGTCATGATTACAGAAGCCCTTAAGATCGCCTACCCCACTG
 AATATAATAGGAGCAGCGTATTCGTTGAACCTAGCTTCGTTCCGTACATTATCGTACCAGTACGCTTGA
 TGGCCTCTCTGCCACTATAGCGTTGTCTTTGACACAAGGGGATCCAGCAGGCACTGTCTATCCTTCAG
 TGGGCACGCGACTACGGATCTGGCACCCTCCCCAATGCTGATGGCTACCGGACTAAACTCTCAGCACTGA
 TCACCATACTCGAGCCTTCCACCAGGACTCACCCTCCCCTCCTGCTGCCAGCCATGTCTCAACGATTGA
 CTCCTGATTTGTGAACCTCCACCACAGTCGGTATTGCCGTAGACCTGCTTCCACAACACGTCCGGCCC
 CTCGTCGCCGACCGACCTCTATTACTAATAGTGTGTTCCCTGGCTACGCTGTATTACGATGAGTTGTATG
 GGAGATGGACAAGACTTGACAAGACGTCACAAGCACTGGTTGAAAATTTTACATCAAACGCCCTTTCGT
 TAGCCGCTACATGCTCATGCTGCAGAAATTTTCGCATGTCGATTCTACCCGACCCCTGACCTTCAGGCC
 GTGGGGATCTGCAACCCGAAGGTGGAGCGGGATGAACAGTTTGGCGTTTGGCGACTGAATGATCTGGCAG
 ACGCAGTCGGACACATCGTGGGGACTATCCAGGGAATACGGACCCAAATGCGGGTAGGGATTTCTCACT
 TAGAACCATCATGGCCGACGCTAGCTCCGCGCTGCGCGAATGCGAAAACCTGATGACCAAGACGAGTACT
 TCCGCCATCGGACCTTTGTTCTCCACCATGGCAAGCAGATACGCCCGTTCACTCAAGACCAAATGGATA
 TCTTGATGAGAGTGGATAAACTACCACCAGGGGAGAATATCCCGGACTGGCCAACGTTGAAATTTCTT
 GAACCGGTGGGAGAGGATCGCCACAGCTTGCCGGCATGCAACAGCTGTGCTAGTGCCGAATCAATTGCC
 ACAGTGTGCAACGAGCTGAGCGGGGTTTGA AAAACATCCAGGAGGATAGAGTCAATGCACCCACTAGTT
 ACATGTACACGCTCGGAACCTCGAGGATCATAAGGCAGCCGTGAGTTTTGTGATGGACTCCAGACAGCA
 GTTCATAGTAGACTCAGGACCTCAGATGGGTGCCGTGCTTACATCACAATGCAACATCGGTACATGGGAA
 AACGTGAACGCAACATTTCTGCACGATAATGTTAAAATCACAACCACCGTAAGAGATGTAATCTCAGAGG
 CACCCACTTTGATTATAGGACAGAGATGGCTGAGACCTGACGAAACTGTCCAATGTGGACCTCGCGCT
 TGGAGTCCGGGAAATACAAGCGCTCCGACCCA

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>VC100962 representing NP_040144
 Red=Cloning sites Green=Tags

MEEPICYDQKLLDDLNLKQVEADNERPWSPEKTEIARVKVVKFLRSTQKIPAKHFIQIWEPLHSNICF
 VYSNTFLAEAAFTAENLPGLLFWRLDLWTIEEPGNSLKILTQLSSVVQDSETHRLSANKLRSSKFGP
 VSIHFIIITDWINMYEVALKDATTAIESPFTARIGMLESIAAALTQHKFAIYDMPFVQEGIRVLTQYAG
 WLLPFNMWNQIQNSSLTPLTRALFIIICMIDEYL TETPVHSISELFADTVNLKDEAFVSIEEAVTNPRT
 VHESRISSALAYRDPYVFETSPGMLARRLRDNGIWESNLLSLSTPGIHIEALLHLLNSDPEAETSGSN
 VAEHTRGIWEKVQASTSPSMLISTLAESGFTRFSCKLLRRFIAHHTLAGFIHGSVVADEHITDFQQTLCG
 LALVGLLAYQLVETYAPTEYVLTYTRTVNETEKRYETLLPALGLPPGGLGQIMRRCFAPRPLIESIQAT
 RVILLNEISHAEARETTYFKQTHNQSSGALLPQAGQSAVREAVL TWFDLRMSRWGITPPVDVGMTPPIC
 VDPPATGLEAVMITEALKIAYPTEYNRSSVFVEPSFVPYIATSTLDALSATIALSFDTRGIQQALSILQ
 WARDYGSSTVPNADGYRKL SALITILEPFTRTHPPVLLPSHVSTIDSLICELHRTVGI AVDLLPQHVRP
 LVPDRPSITNSVFLATLYYDELYGRWRLDKTSQALVENFTSNALVVSRYMLMLQKFFACRFYPTPDLQA
 VGICNPKVERDEQFGVWRLNDLADAVGHIVGTIQGIRTQMRVGISSLRTIMADASSALRECNLMTKTST
 SAIGPLFSTMASRYARFTQDQMDILMRVDKLTGENIPGLANVEIFLNRWERIATACRHATAVPSAESIA
 TVCNELRRGLKNIQEDRVNAPTSYMSHARNLEDHKAASFVMSRQQFIVDSGPQMGAVLTSQCNIQTWE
 NVNATFLHDNVKITTTVRDVI SEAPTLIIGQRWLRPDEILSNVDLRLGVPNGTSGSDP

TRRRLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NC_001348

ORF Size: 3114 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_001348.1](#), [NP_040144](#)

RefSeq ORF: 3114 bp

Locus ID: 1487686

UniProt ID: [P09310](#)

MW: 115.8 kDa