

Product datasheet for **RR214012**

Herpud2 (NM_001024988) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Herpud2 (NM_001024988) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Herpud2
Synonyms:	RGD1307343
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR214012 representing NM_001024988 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACCAAAGTGGGATGGAGATTCCTGTTACTCTCATCATTAAAGCACCGAATCAGAAATACAGTGACC
 AGACTATTAGCTGCTTCTTGAAGTGGACCGTGGGAACTAAAAACGCATCTATCTAACGTGTACCCTAG
 CAAACCATTGACAAAAGACCAGAGGTTGGTGTATTCTGGCAGACTACTTCTGACCATCTGCAGCTGAAA
 GACATTCTCAGAAAACAAGATGAGTATCATATGGTTCATCTAGTCTGTGCTTCTCGGAGTCTCCAGTT
 CTCCAAAATCCAGCACCGATGGAGAAAGTCACGGAGCACTGGCATCCAGCACCAATTCTAATTCAGATCA
 TTCTGATTCAACCACTCCATCACCCAGTCAAGAGAGTTTGTCACTAGTTGCTGGTTCTTCAGAAGGATTG
 AGGCACCGTACTCTCCACAAGCACAGACTGACCCAGCCAGAGTCATCAGTTTCCATATGTAATCCAAG
 GAAATGTGGATCACCAGTTTCTGGGCAAGGCGTGCCCTCGGTTCCCAATGTACCCTGCGTTACAGCC
 CCTGCAGATGCTGTGGTGGCAACAGATGTACGCTCAGCAGTATTATGCAATATCAAGCTGCAGTTACA
 GCTCAGGCCACGTCAAGTGCCAGCTCAGCCAGCATGCTGCATCGTCACCTCTGAATTTGGCCCATGTTT
 CTGGAGAAGAGCCCCACCAGCTCCCAACCTAGTGGCCCAAGAAAATGGGCTGAGAATGTTCAAATGAA
 TGCACAGGGCGGCCAGTGCTAAATGAAGAAGACTCAACCGCGACTGGCTGGACTGGGTGTACAGTTT
 TCGCGAGCTGCCGTCTCCTCAGCATCGTATACTTCTACTCTTCTTTAGTCGGTTTATCATGGTAATGG
 GAGCCATGCTGCTGTTTATTTACACCAAGCTGGATGGTTTCTTTTCAGGCAAGAAGGCGGTCAACAACA
 GGCTCCCAACAATGTTGACGCTAACAACGAGGGGAGAGTGAACAACCTAGAAGTTGAAGAAATGCGC
 CTTATGGATGATGGACTCGAAGATGAGAGTGGAGAAGATGCAGGTGAAGATGCCAGTGCAGCTCAAAGGC
 CTGGGCTAATGGCTTCCGCTTGGTCTTTTATCACCACTTTTACTTCACTGATACCAGAGGGGCTCC
 CCAAGTTGCCAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RR214012 representing NM_001024988

Red=Cloning site Green=Tags(s)

MDQSGMEIPVTLIIKAPNQKYSQDTISCFLNWTVGKCLKTHLSNVYPSKPLTKDQRLVYSGRLLPDHLQLK
DILRKQDEYHMVHLCASRSPSPSPKSSTDGESHGALASSTNSNSDHSdstTPSPSQESLSLVAGSSGEL
RHRTLPAQATDPAQSHQFPYVIQGNVDHGFPGQGVPPGPFMPYAFSPLQMLWWQMYAQYYMQYQAAVT
AQATSSASSAQHAASSPLNLAHVPGEPPAPNLAQWQENPVQMQAGQGPVLNEEDFNRDWLDWVYTF
SRAAVLLSIVFYSSFSRFIMVGMGLVYLHQAGVFPFRQEGQQQAGPNVDANNEGQNANLLEEMR
LMDGLEDSEGDAGEDASAQORPLMASAWSITFTFSLIPEGPPVAN

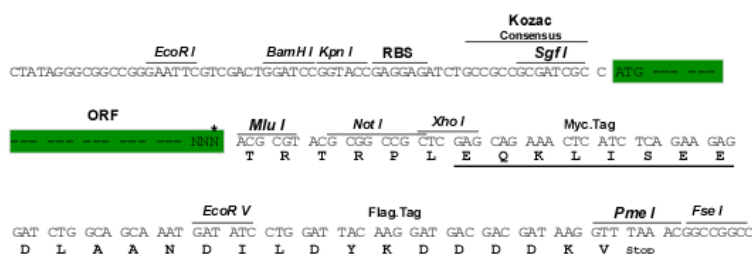
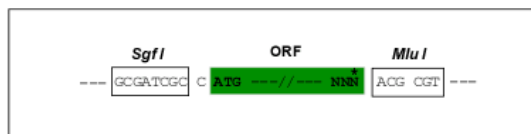
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM 001024988

ORF Size: 1203 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_001024988.1](#), [NP_001020159.1](#)

RefSeq Size: 2085 bp

RefSeq ORF: 1206 bp

Locus ID: 300463

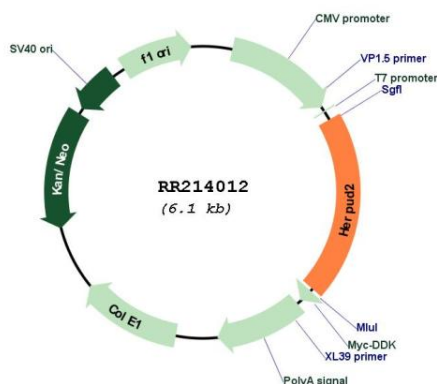
UniProt ID: [Q66HH4](#)

Cytogenetics: 8q13

MW: 44.2 kDa

Gene Summary: Could be involved in the unfolded protein response (UPR) pathway.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR214012