

Product datasheet for **SC301563**

HERPUD1 (NM_001010990) Human Untagged Clone

Product data:

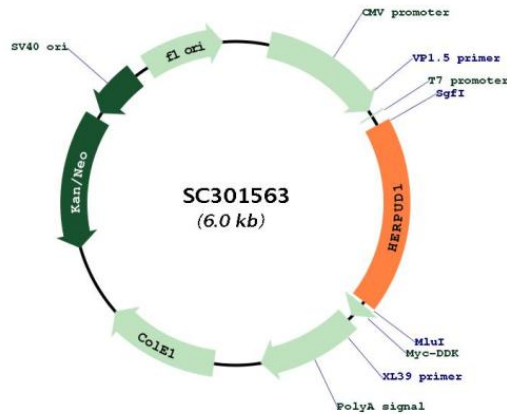
Product Type: Expression Plasmids
Product Name: HERPUD1 (NM_001010990) Human Untagged Clone
Tag: Tag Free
Symbol: HERPUD1
Synonyms: HERP; Mif1; SUP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >SC301563 representing NM_001010990.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGTCCGAGACCGAACCCGAGCCCGTCAAGCTCCTGGTGAAGAGCCCAACCAGCGCCACCGCGAC
TTGGAGCTGAGTGGCAGCCGCGCTGGAGTGTGGGCCACCTCAAGGCCACCTGAGCCGCTCTACCCC
GAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGGAAGCTGTTGTTGGATCACCAATGTCTC
AGGGACTTGCTTCAAAGGTGGCTGAATCCACAGAGGAGCCTGCTGGTCTAATCGGGGACAGTATCCT
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AACATCTCAAGGCCTGAAGCTGCCAGCAGGCATTCCAAGCCTGGGTCCTGGTTTCTCCGTTACACA
CCCTATGGGTGGCTTCACTTCTGTTCCAGCAGATATATGCACGACAGTACTACATGCAATATTTA
GCAGCCACTGCTGCATCAGGGGCTTTTGTCCACCACCAAGTGCACAAGAGATACCTGTGGTCTCTGCA
CCTGCTCCAGCCCTATTCACAACCAGTTTCCAGCTGAAAACCAGCCTGCCAATCAGAATGCTGCTCCT
CAAGTGGTTGTTAATCCTGGAGCCAATCAAAATTTGCGGATGAATGCACAAGGTGGCCCTATTGTGGAA
GAAGATGATGAAATAAATCGAGATTGGTTGGATTGGACCTATTCAGCAGCTACATTTTCTGTTTTCTC
AGTATCCTCTACTTCTACTCCTCCCTGAGCAGATTCTCATGGTCATGGGGGCCACCGTTGTTATGTAC
CTGCATCAGTTGGGTGGTTTCCATTTAGACCGAGGCCGTTCAGAACTCCCAAATGATGGTCTCCTCCT
CCTGACGTTGTAATCAGGACCCCAACAATAACTTACAGGAAGGCACTGATCCTGAAACTGAAGACCCC
AACACCTCCCTCCAGACAGGGATGTAAGTGGCGAGCAGACCAGCCCTCCTTATGAGCACAGCA
TGGCTTGCTTCAAGACTTTCTTTGCTCTCTTCTCCAGAAGGCCCCAGCCATCGCAAAC TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:


ACCN: NM_001010990

Insert Size: 1101 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001010990.1](#)

RefSeq Size: 2123 bp

RefSeq ORF: 1101 bp

Locus ID: 9709

Cytogenetics: 16q13

Protein Families: Druggable Genome

MW: 40.9 kDa

Gene Summary: The accumulation of unfolded proteins in the endoplasmic reticulum (ER) triggers the ER stress response. This response includes the inhibition of translation to prevent further accumulation of unfolded proteins, the increased expression of proteins involved in polypeptide folding, known as the unfolded protein response (UPR), and the destruction of misfolded proteins by the ER-associated protein degradation (ERAD) system. This gene may play a role in both UPR and ERAD. Its expression is induced by UPR and it has an ER stress response element in its promoter region while the encoded protein has an N-terminal ubiquitin-like domain which may interact with the ERAD system. This protein has been shown to interact with presenilin proteins and to increase the level of amyloid-beta protein following its overexpression. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms. The full-length nature of all transcript variants has not been determined. [provided by RefSeq, Jan 2013]

Transcript Variant: This variant (3) lacks an alternate in-frame exon, compared to variant 1, resulting in a shorter protein (isoform 3) that has a shorter N-terminus, compared to isoform 1.