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Product datasheet for SC114911

HERPUD1 (NM_014685) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HERPUD1 (NM_014685) Human Untagged Clone
Tag:	Tag Free
Symbol:	HERPUD1
Synonyms:	HERP; Mif1; SUP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC114911 sequence for NM_014685 edited (data generated by NextGen Sequencing)

ATGGAGTCCGAGACCGAACCCGAGCCCGTCACGCTCCTGGTGAAGAGCCCCAACCAGCGC
CACCGCGACTTGGAGCTGAGTGGCGACCGCGGCTGGAGTGTGGGCCACCTCAAGGCCCAC
CTGAGCCGCGTCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTAATTTATTCTGGG
AAGCTGTTGTTGGATCACCAATGTCTCAGGGACTTGCTTCCAAAGCAGGAAAAACGGCAT
GTTTTGCATCTGGTGTGCAATGTGAAGAGTCCTTCAAAAATGCCAGAAATCAACGCCAAG
GTGGCTGAATCCACAGAGGAGCCTGCTGGTTCTAATCGGGGACAGTATCCTGAGGATTCC
TCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCGGAACCTTTCTTCCCCTGGATGGGAA
AACATCTCAAGGCCTGAAGCTGCCCAGCAGGCATTCCAAGGCCTGGGTCCTGGTTTCTCC
GGTTACACACCCTATGGGTGGCTTCAGCTTTCCTGGTTCCAGCAGATATATGCACGACAG
TACTACATGCAATATTTAGCAGCCACTGCTGCATCAGGGGCTTTTGTTCCACCACCAAGT
GCACAAGAGATACCTGTGGTCTCTGCACCTGCTCCAGCCCCTATTCACAACCAGTTTCCA
GCTGAAAACCAGCCTGCCAATCAGAATGCTGCTCCTCAAGTGGTTGTTAATCCTGGAGCC
AATCAAAATTTGCGGATGAATGCACAAGGTGGCCCTATTGTGGAAGAAGATGATGAAATA
AATCGAGATTGGTTGGATTGGACCTATTCAGCAGCTACATTTTCTGTTTTTCTCAGTATC
CTCTACTTCTACTCCTCCCTGAGCAGATTCCTCATGGTCATGGGGGCCACCGTTGTTATG
TACCTGCATCACGTTGGGTGGTTTCCATTTAGACCGAGGCCGGTTCAGAACTTCCCAAAT
GATGGTCCTCCTCCTGACGTTGTAAATCAGGACCCCAACAATAACTTACAGGAAGGCACT
GATCCTGAAACTGAAGACCCCAACCACCTCCCTCCAGACAGGGATGTACTAGATGGCGAG
CAGACCAGCCCCTCCTTTATGAGCACAGCATGGCTTGTCTTCAAGACTTTCTTTGCCTCT
CTTCTTCCAGAAGGCCCCCCAGCCATCGCAAACTGA

Clone variation with respect to NM_014685.2

View online »

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014685 unedited
TGTAATACGACTCACTATAGGGNNCGGCCGCGNAATTCGGCACGAGGGTCGTTGCAGAGA
TTGCGGGCGGCTGAGACGCCGCCTGCCTGGCACCTAGGAGCGCAGCGGAGCCCCGACACC
GCCGCCGCCGCCATGGAGTCCGAGACCGAACCCGAGCCCGTCACGCTCCTGGTGAAGAGC
CCCAACCAGCGCCACCGCGACTTGGAGCTGAGTGGCGACCGCGGCTGGAGTGTGGGCCAC
CTCAAGGCCCACCTGAGCCGCGTCTACCCCGAGCGTCCGCGTCCAGAGGACCAGAGGTTA
ATTTATTCTGGGAAGCTGTTGTTGGATCACCAATGTCTCAGGGACTTGCTTCCAAAGCAG
GAAAAACGGCATGTTTTGCATCTGGTGTGCAATGTGAAGAGTCCTTCAAAAATGCCAGAA
ATCAACGCCAAGGTGGCTGAATCCACAGAGGAGCCTGCTGGTTCTAATCGGNGACAGTAT
CCTGAGGATTCCTCAAGTGATGGTTTAAGGCAAAGGGAAGTTCTTCGGAACCTTTCTTCC
CCTGGATGGGAAAACATCTCAAGGCCTGAAGCTGCCCAGCAGGCATTCCAAGCCCTGGGG
TCCTGGTTTCTCCGGTTACACACCCTATGGGGTGGCTTCAGCTTTCCTGGTTCCAGCAGA
TATATGCACGACAGTACTACATGCAATATTTANCAGCCACTGCTGCATCTAGGGGCCTTT
TGTTCCACCACCAAGTGCCACAGAGAACCTTGTGGTCTCTGAACCTGCTCCAACCCCTAT
TCACACCCAGGTTNCCAGCTGAAAACCAGCCTGCCATTAGGATGCTGCTCTCTAAGGGGT
TGGTAACCTGGAGCCCAATAAATTTTGCCGTGAATGCCCAAGGGGGCCTTTGTGGAAACA
AC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_014685 unedited
CCGCATCTAGATCGAGTTTTTTTTTTTTTTTTTTAAGGGTCATTCATAGTAAAACTTTAT
TGAACAGAAAACCCAGCAAAGGTTTTCACCTCCGCAAAGTTCCCCTTAGTTTAAAGTAAA
GCACTGCATTTTAAAAAGCAATTATACATAAGTCTTTCCTAAAAAAGTCCTGCTAAAACA
TGTCTAGCAATTTCATTGATTATATAAAGTAGTACACTTAGTGTAATTTAAACATTCCAA
CAGGAATCAAATCGTACCAGCAGAACCACTTCTGCATCTATGACTTCTATGTACAAACAC
ACATGCAGACACACACATTTGGAAAAGTTCCTCAAGCATAGACATGCAACACCTAAGGCC
TTCTACGTACAGGGCTTATTAAACTACATAGAGTATATATTAAAGCTCTTCAGAATAAAG
ACATGAGAAGCCTTGGGCATTTTTTGTTCACCAATTTGTATCACGGCTTCACGTTTCTGC
TTTTGCTTGCTCACAAAAGCATATCATCATCCACACTGTTTTTTAAAAACTCATCATTGC
CATGTCCAGGAGAGGCAATCTAGCTGGAGTCAGGTGATCCAGTCCATTCCTGTCAAAGCC
TCCAACAGCTACAGCACAAACACCATCAGTTTGCGATGGCTGGGGGGCCTTCTGGAAGAA
GGAGGCAAAGAAAGCCTTGAAGACAAGCCATGCTGTGCTCATAAAGGAGGGGCTGGTCTG
CTCGCCATCTANTACATCCCTGTCTGGAGGGAGGTGGTTGGGGTTCTTCAGTTTCAAGAT
CAGGGCCCTCCTGTAAGTTATTGTTGGGGTCCTGATTTAAACCGTCAAGAGGATGACCTC
ATCTTGGGAGTTCTGAACCGCGCTCGGTCTAAATGGAATCCACCCACGTGATGCAGTACA
TACAACGGGGGCCCCATGACACTGAGATCTGCCAGGGAGGAGTAATTCCAGATCCTGGAA
ACAAAAATGACTGCGGAAAGTCCATCACC

Restriction Sites: NotI-NotI

ACCN: NM_014685

Insert Size: 2000 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).

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_014685.2, NP_055500.1
RefSeq Size:	2198 bp
RefSeq ORF:	1176 bp
Locus ID:	9709
UniProt ID:	Q15011
Cytogenetics:	16q13
Domains:	UBQ
Protein Families:	Druggable Genome
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 (1) represents the longest transcript and encodes the longest isoform (1).