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Product datasheet for SC115000

SERP1 (NM_014445) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SERP1 (NM_014445) Human Untagged Clone
Tag:	Tag Free
Symbol:	SERP1
Synonyms:	RAMP4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC115000 sequence for NM_014445 edited (data generated by NextGen Sequencing)
ATGGTCGCCAAGCAAAGGATCCGTATGGCCAACGAGAAGCACAGCAAGAACATCACCCAG
CGCGGCAACGTCGCCAAGACCTCGAGAAATGCCCCCGAAGAGAAGGCGTCTGTAGGACCC
TGGTTATTGGCTCTCTTCATTTTTGTTGTCTGTGGTTCTGCAATTTTCCAGATTATTCAA
AGTATCAGGATGGGCATGTGA

Clone variation with respect to NM_014445.3

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_014445 unedited
ACGCATGGCATTTTGTNAACACGACTTTACTATAGGGACAGGCCGCGCAATTCGGCACGA
GGTGAGAACCTCGGCGCTCCGGCGGCGCGGGCACCACGAGCCGAGCCTCGCAGCGGCTCC
AGAGGAGGCAGGCGAGTGAGCGAGTCCGAGGGGGGTGGCCGGGGCAGGTGGTGGCGCCGC
GAAGATGGTCGCCAAGCAAAGGATCCGTATGGCCAACGAGAAGCACAGCAAGAACATCAC
CCAGCGCGGCAACGTCGCCAAGACCTCGAGAAATGCCCCCGAAGAGAAGGCGTCTGTAGG
ACCCTGGTTATTGGCTCTCTTCATTTTTGTTGTCTGTGGTTCTGCAATTTTCCAGATTAT
TCAAAGTATCAGGATGGGCATGTGAAGTGACTGACCTTAAGATGTTTCCATTCTCCTGTG
AATTTTAACTTGAACTCATTCCTGATGTTTGATACCCTGGTTGAAAACAATTCAGTAAAG
CATCCTGCCTCAGAATGACTTTCCTATCATGCTTCATGTGTCATTCCAAGGTTTCTTCAT
GAGTCATTCCAAGTTTTCTAGTCCATACCACAGTGCCTTGCAAAAAACACCACATGAATA
AAGCAATAAAATTTGATTGTTAAGATACAGTAGTGGACCCTACTTATTCAGTCAATTAAG
AGTAAGTTTTTTTATGTGGTTATTAAAACAGTATGAACAATTAGTCTAACTCTGCATAGA
CAGGGTCTAGATTTTGTTAACCCAAATGTATAACTGCAGTTAGCTTAAATTACAATTTGA
AGTCTTGTGGTTTTTATATAGCTAGGCACTTTATTACTCTTTTGAACTGAAAGCACACTC
NCTTATAGGTTCATGTNACTGTCCTGNTATAAGGTGCTTATNAATGGNNACACTACACAG
CCTAGTTTTGCCCCACACCTTAGCATCTAANAAGTTTCTAAAAGCTTCTAAATGTCTAAT
ATAAA

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3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_014445 unedited
GCCGCGGCCGCAATCTANAATCGAGTTTTTTTTTTTTTTTTTTTTAAATATTCAGGGAA
CTTTATTTTTAAAGAATAAATCAAGTAAGACACAGCTTTCGTTTACCTAAACATGCATAA
TCCAACCTGAATATAAACTGCACTTAATTGGTGAATTACACATGAAATACAAAGGGAATG
CAATTTTACATATGTAAAATGATTGCTAGCTATAGCAATTTAACAGTCAAATTTATCAGA
ACATTGTACATTAAAAAACACAAACAACAACTTAAAGCCAAATATCTATAGTAAACCAAG
GAAAATTCTGATATGGAATGGTTTGACTAAAAGCAAAGAATAAGGCACCTGCTATGAATT
TAGCACAACCATAAAACAGAATTAGTTAACCAAGACACTTGTTTCAAAAAGGGAAACAAG
TACAGAGACTGATTAACTGGGTGAGAAAGGCAAGTAACAATTTAGTTAAAAACCTGCTGG
CCCAAGGTCAGTTGATTCATTCCTTATTCCAGAATAGTTAAGTTCCTGAAAGTCCTTAAC
CACTCTGCTCCCTTACTGTTCTCCATGTTTGAGGGTATCAGAAGCCCCCTGTGAGGTTCA
CGCTGTGTATAGACTAGGTAGCAGATTTCCCTTCTGTTCCTCTTAAAACAGCTTATTTTA
AAAGAAATATCCTGAGGCAATTAACAAAGCAAACACAAGCAGCTTTCTTTCCAACGCATT
AATACATAGACACTGCTCAGGTTTTTTTTTCACCAAGTTATNGGCTAAGTATACAAATAG
CCAATACTTGCAGTTTTCAACAGTACTAGAAAACCCANAACCTGCCCTTATGACCCTCAC
CCNTACCATTNAGTAAACGTAAATTTGATCAATCATACCTATAAAGTCATATACAAAGGG
AGACTAAGACTGATCATATCAGTAATNCTTCATTCCAGATGCC
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Restriction Sites: NotI-NotI

ACCN: NM_014445

Insert Size: 2240 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_014445.2, NP_055260.1

RefSeq Size: 2488 bp

RefSeq ORF: 201 bp

Locus ID: 27230

UniProt ID: Q9Y6X1

Cytogenetics: 3q25.1

Protein Families: Transmembrane

Gene Summary: Interacts with target proteins during their translocation into the lumen of the endoplasmic reticulum. Protects unfolded target proteins against degradation during ER stress. May facilitate glycosylation of target proteins after termination of ER stress. May modulate the use of N-glycosylation sites on target proteins (By similarity).[UniProtKB/Swiss-Prot Function]