

Product datasheet for **SC318019**

HPSE2 (NM_021828) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPSE2 (NM_021828) Human Untagged Clone
Tag:	Tag Free
Symbol:	HPSE2
Synonyms:	HPA2; HPR2; UFS; UFS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318019 representing NM_021828.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGAGGGTGCCTTTGTGCCTTCCCTGAAGCCATGCCCTCCAGCAACTCCCCCCCCCGCGTGCCTAGCC
CCGGGGGCTCTCTACTTGGCTCTGTTGCTCCATCTCTCCCTTTCTCCAGGCTGGAGACAGGAGACCC
TTGCCTGTAGACAGAGCTGCAGGTTTGAAGGAAAAGACCCTGATTCTACTTGATGTGAGCACAAGAAC
CCAGTCAGGACAGTCAATGAGAACTTCTCTCTCTGCAGCTGGATCCGTCCATCATTATGATGGCTGG
CTCGATTTCTAAGCTCCAAGCGCTTGGTGACCCTGGCCCGGGGACTTTCGCCCGCTTTCTGCGCTTC
GGGGGCAAAGGACCGACTTCTGCAGTCCAGAACCTGAGGAACCCGGCGAAAAGCCGGGGGGCCCG
GGCCCGGATTACTATCTCAAAAATATGAGGATGACATTGTTTGAAGTATGTTGCCTTAGATAAACAG
AAAGGCTGCAAGATTGCCAGCACCTGATGTTATGCTGGAGCTCAAAGGGAGAAGGCAGCTCAGATG
CATCTGGTCTTCTAAAGGAGCAATTCTCAATACTTACAGTAATCTCATTAACAGCCAGGTCTCTA
GACAAACTTTATAACTTTGCTGATTGCTCTGGACTCCACCTGATATTTGCTCTAAATGCACTGCGTCGT
AATCCCAATAACTCCTGGAACAGTTCTAGTGCCCTGAGTCTGTTGAAGTACAGCGCCAGCAAAAAGTAC
AACATTTCTTGGAACTGGGTAATGAGCAAAATAACTATCGGACCATGCATGGCCGGGCAGTAAATGGC
AGCCAGTTGGGAAAGGATTACATCCAGCTGAAGAGCCTGTTGCAGCCCATCCGGATTTATCCAGAGCC
AGCTTATATGGCCCTAATATTGGGCGGCCGAGGAAGAATGTATCGCCCTCTAGATGGATTCATGAAG
GTGGCAGGAAGTACAGTAGATGCAGTTACCTGGCAACATTGCTACATTGATGGCCGGGTGGTCAAGGTG
ATGGACTTCTGAAAACCGCCTGTTAGACACACTCTCTGACCAGATTAGGAAAATTCAGAAAAGTGGTT
AATACATACACTCCAGGAAAGAAGATTTGGCTTGAAGGTGGTGACCACCTCAGCTGGAGGCACAAAC
AATCTATCCGATTCTATGCTGCAGGATTTTATGGTTGAACACTTTAGGAATGCTGGCCAATCAGGGC
ATTGATGTCGTGATACGGCACTATTTTTTACCATGGATACAATCACCTCGTGGACCAGAATTTTAAAC
CCATTACCAGACTACTGGCTCTCTCTCTCTACAAGCGCCTGATCGGCCCAAAGTCTTGGCTGTGCAT
GTGGCTGGGCTCCAGCGGAAGCCACGGCCTGGCCGAGTATCCGGGACAAACTAAGGATTTATGCTCAC
TGCACAAACCACCACAACCACTACGTTCTGGGTCCATTACACTTTTATCATCAACTTGCATCGA
TCAAGAAAGAAAATCAAGCTGGCTGGGACTCTCAGAGACAAGCTGGTTCACCAGTACCTGCTGCAGCCC
TATGGGCAGGAGGCCTAAAGTCCAAGTCAAGTCAACTGAATGGCCAGCCCTTAGTGATGGTGGACGAC
GGGACCCTCCAGAATTGAAGCCCCGCCCTTCGGGCCGGCCGACATTGGTCATCCCTCCAGTCACC
ATGGGCTTTTATGTGGTCAAGAATGTCAATGCTTTGGCCTGCCGCTACCGATAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI
ACCN: NM_021828
Insert Size: 1779 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_021828.4](#)

RefSeq Size: 4349 bp

RefSeq ORF: 1779 bp

Locus ID: 60495

UniProt ID: [Q8WWQ2](#)

Cytogenetics: 10q24.2

Protein Pathways: Glycosaminoglycan degradation, Metabolic pathways

MW: 66.6 kDa

Gene Summary:

This gene encodes a heparanase enzyme. The encoded protein is an endoglycosidase that degrades heparin sulfate proteoglycans located on the extracellular matrix and cell surface. This protein may be involved in biological processes involving remodeling of the extracellular matrix including angiogenesis and tumor progression. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.