

Product datasheet for **SC328772**

Heparanase 1 (HPSE) (NM_001166498) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Heparanase 1 (HPSE) (NM_001166498) Human Untagged Clone
Tag:	Tag Free
Symbol:	Heparanase 1
Synonyms:	HPA; HPA1; HPR1; HPSE1; HSE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >SC328772 representing NM_001166498.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCTGCTGCGCTCGAAGCCTGCGCTGCCGCCCGCGCTGATGCTGCTGCTCTGGGGCCGCTGGGTCCC
CTCTCCCCTGGCGCCCTGCCCGACCTGGCAAGCACAGGACGTGCTGGACCTGGACTTCTCACCCAG
GAGCCCGCTGCACCTGGTGAAGCCCTCGTTCCTGTCCGTACCATTGACGCCAACCTGGCCACGGACCCG
CGGTTCTCATCCTCCTGGGTTCTCAAAGCTTCGTACCTGGCCAGAGGCTTGCTCCTGCGTACCTG
AGGTTTGGTGGCACCAAGACAGACTTCTAATTTTCGATCCCAAGAAGGAATCAACCTTTGAAGAGAGA
AGTTACTGGCAATCTCAAGTCAACCAGGATATTTGCAAATATGGATCCATCCCTCCTGATGTGGAGGAG
AAGTTACGGTTGGAATGGCCCTACCAGGAGCAATTGCTACTCCGAGAACACTACCAGAAAAAGTTCAAG
AACAGCACCTACTCAAGAAGCTCTGTAGATGTGCTATACACTTTTGCAAAGCTGCTCAGGACTGGACTTG
ATCTTTGGCCTAAATGCGTTATTAAGAACAGCAGATTTGCAGTGGAAACAGTTCTAATGCTCAGTTGCTC
CTGGACTACTGCTTTCAAGGGGTATAACATTTCTTGGGAACTAGGCAATGAACCTAACAGTTTCCTT
AAGAAAGGCTGATATTTTCATCAATGGGTGCGAGTTAGGAGAAGATTTTATTC AATTGCATAAACTTCTA
AGAAAGTCCACCTTCAAAAATGCAAACTCTATGGTCCTGATGTTGGTCAAGCCTCGAAGAAAAGACGGCT
AAGATGCTGAAGAGCTTCTGAAGGCTGGTGGAGAAGTATTGATTACAGTTACATGGCATCACTACTAT
TTGAATGGACGGACTGCTACCAAGGAAGATTTCTAAACCTGATGATTGGACATTTTTATTTTCATCT
GTGCAAAAAGTTTTCCAGGATTATTGGCTATCTTCTGTTCAAGAAATTGGTGGGCACCAAGGTGTTA
ATGGCAAGCGTCAAGGTTCAAAGAGAAGGAAGCTTCGAGTATACCTTCATTGCACAAACTGACAAT
CCAAGGTATAAAGAAGGAGATTTAACTCTGTATGCCATAAACCTCCATAATGTACCAAGTACTTGCGG
TTACCCTATCCTTTTTCTAAAGCAAGTGGATAAATACCTTCTAAGACCTTTGGGACCTCATGGATTA
CTTTCCAAATCTGTCCAACCTCAATGGTCTAACTCTAAAGATGGTGGATGATCAAACCTTGCCACCTTTA
ATGAAAAAACCTCTCCGCCAGGAAGTTCACTGGGCTTGCCAGCTTTCTCATATAGTTTTTTTGTGATA
AGAAATGCCAAAGTTGCTGCTTGATCGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
```

Restriction Sites: Sgfl-MluI

ACCN: NM_001166498

Insert Size: 1410 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_001166498.2](#)

RefSeq Size: 4446 bp

RefSeq ORF: 1410 bp

Locus ID: 10855

UniProt ID: [Q9Y251](#)

Cytogenetics: 4q21.23

Protein Families: Secreted Protein

Protein Pathways: Glycosaminoglycan degradation, Metabolic pathways

MW: 53.2 kDa

Gene Summary: Heparan sulfate proteoglycans are major components of the basement membrane and extracellular matrix. The protein encoded by this gene is an enzyme that cleaves heparan sulfate proteoglycans to permit cell movement through remodeling of the extracellular matrix. In addition, this cleavage can release bioactive molecules from the extracellular matrix. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2011]

Transcript Variant: This variant (3) lacks two exons in the coding region compared to variant 1. The resulting protein (isoform 2) is shorter but has the identical N- and C-termini compared to 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.