

Product datasheet for **SC331374**

Heparanase 1 (HPSE) (NM_001199830) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Heparanase 1 (HPSE) (NM_001199830) Human Untagged Clone
Tag: Tag Free
Symbol: Heparanase 1
Synonyms: HPA; HPA1; HPR1; HPSE1; HSE1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331374 representing NM_001199830.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCTGCTGCGCTCGAAGCCTGCGCTGCCGCCGCGCTGATGCTGCTGCTCCTGGGGCCGCTGGGTCCC
CTCTCCCCTGGCGCCCTGCCCGACCTGCGCAAGCACAGGACGTCGTGGACCTGGACTTCTTCACCCAG
GAGCCGCTGCACCTGGTGGCCCTCGTTCCTGTCCGTACCATTGACGCCAACCTGGCCACGGACCCG
CGGTTCTCATCCTCCTGGGTTCTCAAAGCTTCGTACCTGGCCAGAGGCTTGTCTCCTGCGTACCTG
AGGTTTGGTGGCACCACAGACTTCTAATTTTCGATCCCAAGAAGGAATCAACCTTTGAAGAGAGA
AGTTACTGGCAATCTCAAGTCAACCAGGATATTTGCAAATATGGATCCATCCCTCCTGATGTGGAGGAG
AAGTTACGGTTGGAATGGCCCTACCAGGAGCAATTGCTACTCCGAGAACACTACCAGAAAAAGTTCAAG
AACAGCACCTACTCAAAACCTAACAGTTTCCTTAAGAAGGCTGATATTTTCATCAATGGGTGCGAGTTA
GGAGAAGATTTTATTCAATTGCATAAACTTCTAAGAAAGTCCACCTTCAAAAATGCAAACTCTATGGT
CCTGATGTTGGTCAGCCTCGAAGAAAGACGGCTAAGATGCTGAAGAGCTTCTGAAGGCTGGTGGAGAA
GTGATTGATTGATTACATGGCATCACTACTATTTGAATGGACGGACTGCTACCAAGGAAGATTTTCTA
AACCTGATGTATTGGACATTTTATTTTCATCTGTGCAAAAAGTTTTCCAGGTGGTTGAGAGCACCAGG
CCTGGCAAGAAGGTCTGGTTAGGAGAAACAAGCTCTGCATATGGAGGCGGAGCGCCCTTGCTATCCGAC
ACCTTTGCAGCTGGCTTTATGTGGCTGGATAAATTGGCCTGTGAGCCGAAATGGGAATAGAAGTGGTG
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AAGCAAGTGGATAAATACCTTCTAAGACCTTTGGGACCTCATGGATTACTTTCCAAATCTGTCCAACCTC
AATGGTCTAACTCTAAAGATGGTGGATGATCAAACCTTGCACCTTTAATGGAAAACTCTCCGGCCA
GGAAGTTCAGTGGCTTGGCAGCTTTCATATAGTTTTTTGTGATAAGAAATGCCAAAGTTGCTGCT
TGCATCTGA
  
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Restriction Sites: SgfI-MluI
ACCN: NM_001199830
Insert Size: 1458 bp



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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:	<ol style="list-style-type: none"> 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:	<u>NM_001199830.1</u>
RefSeq Size:	4388 bp
RefSeq ORF:	1458 bp
Locus ID:	10855
UniProt ID:	<u>Q9Y251</u>
Cytogenetics:	4q21.23
Protein Families:	Secreted Protein
Protein Pathways:	Glycosaminoglycan degradation, Metabolic pathways
MW:	54.7 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) lacks an in-frame exon in the 5' coding region compared to variant 1. The resulting protein (isoform 3) 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.</p>