

Product datasheet for **RC234242**

Heparanase 1 (HPSE) (NM_001199830) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Heparanase 1 (HPSE) (NM_001199830) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Heparanase 1
Synonyms:	HPA; HPA1; HPR1; HPSE1; HSE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234242 representing NM_001199830
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGCTGCGCTCGAAGCCTGCGCTGCCGCCCGCTGATGCTGCTGCTCCTGGGGCCGCTGGGTCCCC
 TCTCCCTGGCGCCTGCCCGACTGCGCAAGCACAGGACGTCGTGGACCTGGACTTCTTCACCCAGGA
 GCCGCTGCACCTGGTGAAGCCCTCGTTCCTGTCGGTACACATTGACGCCAACCTGGCCACGACCCGCGG
 TTCCTCATCCTCCTGGGTTCTCCAAAGCTTCGTACCTGGCCAGAGGCTTGTCTCCTGCGTACCTGAGGT
 TTGGTGGACCAAGACAGACTTCTAATTTTCGATCCCAAGAAGGAATCAACCTTTGAAGAGAGAAGTTA
 CTGGCAATCTCAAGTCAACCAGGATATTGCAAAATATGGATCCATCCCTCCTGATGTGGAGGAGAAGTTA
 CGGTTGGAATGGCCCTACCAGGAGCAATTGCTACTCCGAGAACACTACCAGAAAAAGTTCAAGAACAGCA
 CCTACTCAAACCTAACAGTTTCCTTAAGAAGGCTGATATTTTCATCAATGGGTGCGAGTTAGGAGAAGA
 TTTTATCAATTGCATAAACTTCTAAGAAAGTCCACCTTCAAAAATGCAAACTCTATGGTCTGATGTT
 GGTGAGCCTCGAAGAAAGACGGCTAAGATGCTGAAGAGCTTCTGAAGGCTGGTGGAGAAGTGATTGATT
 CAGTTACATGGCATCACTACTATTTGAATGGACGGACTGCTACCAAGGAAGATTTTCTAAACCCTGATGT
 ATGGACATTTTTATTTTCATCTGTGCAAAAAGTTTTCCAGGTGGTTGAGAGCACCAGGCCTGGCAAGAAG
 GTCTGGTTAGGAGAAACAAGCTCTGCATATGGAGCGGAGCGCCCTTGCTATCCGACACCTTTGCAGCTG
 GCTTTATGTGGCTGGATAAATGGGCCTGTGAGCCGAATGGGAATAGAAGTGGTATGAGGCAAGTATT
 CTTTGGAGCAGGAACTACCATTTAGTGGATGAAACTTCGATCCTTTACCTGATTATTGGCTATCTCTT
 CTGTTCAAGAAATTGGTGGCACCAAGGTGTTAATGGCAAGCTGCAAGGTTCAAAGAGAAGGAAGCTTC
 GAGTATACCTTCATTGCACAAACTGACAATCCAAGGTATAAAGAAGGAGATTTAACTGGATGCCAT
 AAACCTCCATAATGTACCAAGTACTTGCAGTTACCTATCCTTTTTCTAACAAGCAAGTGGATAAATAC
 CTTCTAAGACCTTTGGGACCTCATGGATTACTTTCAAATCTGTCCAACCTCAATGGTCTAACTCTAAAGA
 TGGTGGATGATCAAACCTTGCCACCTTTAATGGAAAACTCTCCGGCCAGGAAGTTCAGTGGGCTTGCC
 AGCTTTCTCATATAGTTTTTTTTGTGATAAGAAATGCCAAAGTTGCTGCTTGCATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234242 representing NM_001199830
 Red=Cloning site Green=Tags(s)

MLLRSPALPPPLMLLLLGPLGPLSPGALPRPAQAQDVVDLDFFTQEPLHLVSPSFLSVTIDANLATDPR
 FLILLGSPKLRTRLARGLSPAYLRFGGTKDFLIFDPKKESTFEERSYWQSQVNVQDICKYGSIPPDVEEKL
 RLEWPYQEQLLLREHYQKFKNSTYKPNFSLKKADIFINGSQLGEDFIQLHKLLRKSTFKNAKLYGPDV
 GQPRRKTAKMLKSFLKAGGEVIDSVTWHHYLLNGRTATKEDFLNPDVLDIFISSVQKVFQVVESTRPK
 VWLGETSSAYGGAPLLSDTFAAGFMWLDKLGLSARMGIEVVMRQVFFGAGNYHLVDENFDPLPDYWLSL
 LFKKLVGTVKVLMSVQGSKRRLRVYVHCTNTDNPRYKEGDLTYAINLHNVTYLRPLPYPFVSNKQVDKY
 LLRPLGPHGLLSKSVQLNGLTLKMDVDDQTLPLMEKPLRPGSSLGLPAFSYSFFVIRNAKVAACI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001199830

ORF Size: 1455 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_001199830.1](#), [NP_001186759.1](#)

RefSeq Size: 4388 bp

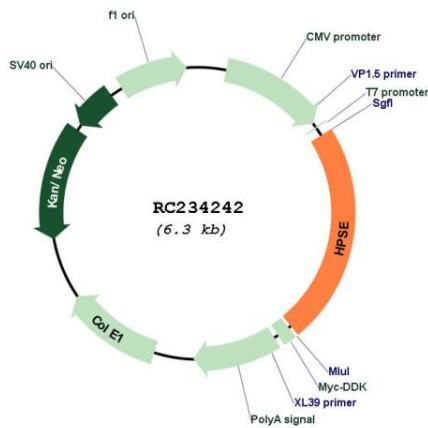
RefSeq ORF: 1458 bp

Locus ID: 10855

UniProt ID: [Q9Y251](#)

Cytogenetics: 4q21.23
Protein Families: Secreted Protein
Protein Pathways: Glycosaminoglycan degradation, Metabolic pathways
MW: 55.2 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]

Product images:



Circular map for RC234242