

Product datasheet for **RG234242**

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:	TurboGFP
Symbol:	Heparanase 1
Synonyms:	HPA; HPA1; HPR1; HPSE1; HSE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG234242 representing NM_001199830
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTGCTGCGCTCGAAGCCTGCGCTGCCGCCCGCTGATGCTGCTGCTCCTGGGGCCGCTGGGTCCCC
 TCTCCCTGGCGCCTGCCCGACTGCGCAAGCACAGGACGTCGTGGACCTGGACTTCTTCACCCAGGA
 GCCGCTGCACCTGGTGGAGCCCTCGTTCCTGTCGGTACACATTGACGCCAACCTGGCCACGACCCGCGG
 TTCCTCATCCTCCTGGGTTCTCCAAAGCTTCGTACCTGGCCAGAGGCTTGTCTCCTGCGTACCTGAGGT
 TTGGTGGACCAAGACAGACTTCTAATTTTCGATCCCAAGAAGGAATCAACCTTTGAAGAGAGAAGTTA
 CTGGCAATCTCAAGTCAACCAGGATATTTGCAAATATGGATCCATCCCTCCTGATGTGGAGGAGAAGTTA
 CGGTTGGAATGGCCCTACCAGGAGCAATTGCTACTCCGAGAACACTACCAGAAAAAGTTCAAGAACAGCA
 CCTACTCAAACCTAACAGTTTCCTTAAGAAGGCTGATATTTTCATCAATGGGTCGCAGTTAGGAGAAGA
 TTTTATCAATTGCATAAACTTCTAAGAAAGTCCACCTTCAAAAATGCAAACTCTATGGTCTGATGTT
 GGTGAGCCTCGAAGAAAGACGGCTAAGATGCTGAAGAGCTTCTGAAGGCTGGTGGAGAAGTGATTGATT
 CAGTTACATGGCATCACTACTATTTGAATGGACGGACTGCTACCAAGGAAGATTTTCTAAACCCTGATGT
 ATGGACATTTTTATTTTCATCTGTGCAAAAAGTTTTCCAGGTGGTTGAGAGCACCAGGCCTGGCAAGAAG
 GTCTGGTTAGGAGAAACAAGCTCTGCATATGGAGCGGAGCGCCCTTGCTATCCGACACCTTTGCAGCTG
 GCTTTATGTGGCTGGATAAATGGGCTGTGAGCCGAATGGGAATAGAAGTGGTATGAGGCAAGTATT
 CTTTGGAGCAGAAACTACCATTTAGTGGATGAAACTTCGATCCTTTACCTGATTATTGGCTATCTCTT
 CTGTTCAAGAAATTGGTGGCACCAAGGTGTTAATGGCAAGCGTCAAGGTTCAAAGAGAAGGAAGCTTC
 GAGTATACCTTCATTGCACAAACTGACAATCCAAGGTATAAAGAAGGAGATTTAACTCTGATGCCAT
 AAACCTCCATAATGTACCAAGTACTTGCAGTTACCTATCCTTTTTCTAACAAGCAAGTGGATAAATAC
 CTTCTAAGACCTTTGGGACCTCATGGATTACTTCCAAATCTGTCCAACCTCAATGGTCTAACTCTAAAGA
 TGGTGGATGATCAAACCTTGCCACCTTTAATGGAAAACTCTCCGGCCAGGAAGTTCAGTGGGCTTGCC
 AGCTTTCTCATATAGTTTTTTTTGTGATAAGAAATGCCAAAGTTGCTGCTTGCATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG234242 representing NM_001199830
 Red=Cloning site Green=Tags(s)

MLLRSKPALPPPLMLLLGLPLSPGALPRPAQAQDVVDLDFFTQEPLHLVSPSFLSVTIDANLATDPR
 FLILLGSPKLRRLARGLSPAYLRFGGTKDFLIFDPKKESTFEERSYWQSQVNQDICKYGSIPPDVEEKL
 RLEWPYQEQLLLREHYQKFKNSTYKPNFSLKKADIFINGSQLGEDFIQLHKLRLKSTFKNAKLYGPDV
 GQPRRKTAKMLKSFLKAGGEVIDSVTWHHYLLNGRTATKEDFLNPDVLDIFISSVQKVFQVVESTRPGKK
 VWLGETSSAYGGAPLLSDTFAAGFMWLDKLGLSARMGIEVVMRQVFFGAGNYHLVDENFDPLPDYWL
 SL LFKKLVGTVLMA SVQGSKRRKLRVYLHCTNTDNPRYKEGDLTLYAINLHNVTKYLRLPYPFSNKQVDKY
 LLRPLGPHGLLSKSVQLNGLTLKMDVDDQTLPLMEKPLRPGSSLGLPAFSYSFFVIRNAKVAACI

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-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](#)

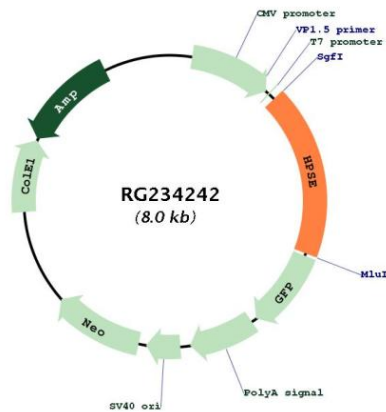
Cytogenetics: 4q21.23

Protein Families: Secreted Protein

Protein Pathways: Glycosaminoglycan degradation, Metabolic pathways

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 RG234242