

## Product datasheet for **RG230134**

### Heparanase 1 (HPSE) (NM\_001166498) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Heparanase 1 (HPSE) (NM_001166498) 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)



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## ORF Nucleotide Sequence:

>RG230134 representing NM\_001166498  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGCTGCTGCGCTCGAAGCCTGCGCTGCCGCCGCCGCTGATGCTGCTGCTCCTGGGGCCGCTGGGTCCCC  
 TCTCCCTGGCGCCTGCCCGACCTGCGCAAGCACAGGACGTCGTGGACCTGGACTTCTTCACCCAGGA  
 GCCGCTGCACCTGGTGAAGCCCTCGTTCCTGTCCGTCAACATTGACGCCAACCTGGCCACGACCCGCGG  
 TTCCTCATCCTCCTGGGTTCTCCAAAGCTTCGTACCTTGCCAGAGGCTTGTCTCCTGCGTACCTGAGGT  
 TTGGTGGACCAAGACAGACTTCCTAATTTTCGATCCCAAGAAGGAATCAACCTTTGAAGAGAGAAGTTA  
 CTGGCAATCTCAAGTCAACCAGGATATTGCAAAATATGGATCCATCCCTCCTGATGTGGAGGAGAAGTTA  
 CGGTTGGAATGGCCTACCAGGAGCAATTGCTACTCCGAGAACACTACCAGAAAAAGTTCAAGAACAGCA  
 CCTACTCAAGAAGCTCTGTAGATGTCTATACACTTTTGCAAAGCTGCTCAGGACTGGACTTGATCTTTGG  
 CCTAAATGCGTTATTAAGAAGCAGAGATTGCAAGTGAACAGTTCTAATGCTCAGTTGCTCCTGGACTAC  
 TGCTCTTCCAAGGGGTATAACATTTCTTGGAAGTACGCAATGAACCTAACAGTTTCTTAAGAAGGCTG  
 ATATTTTCATCAATGGGTGCGAGTTAGGAGAAGATTTTATTCAATTGCATAAACTCTAAGAAAGTCCAC  
 CTTCAAAAATGCAAACTCTATGGTCTGATGTTGGTCAGCCTCGAAGAAAGACGGCTAAGATGCTGAAG  
 AGCTTCTGAAGGCTGGTGGAGAAGTATTGATTGATTGATTGATTGATTGATTGATTGATTGATTGATTGATT  
 CTGCTACCAAGGAAGATTTTCTAAACCTGATGTATTGGACATTTTATTTATCTGTGCAAAAAGTTTT  
 CCAGGATTATTGGCTATCTCTTCTGTTCAAGAAATTTGGTGGCACCAAGGTGTTAATGGCAAGCGTGCAA  
 GGTTCAAAGAGAAGGAAGCTTCGAGTATACCTTCATTGCACAAACTGACAATCCAAGGTATAAAGAAG  
 GAGATTTAACTCTGTATGCCATAAACCTCCATAATGTACCAAGTACTTGCAGTTACCTATCCTTTTTTC  
 TAACAAGCAAGTGGATAAATACCTTCTAAGACCTTTGGGACCTCATGGATTACTTTCCAAATCTGTCCAA  
 CTCAATGGTCTAACTCTAAAGATGGTGGATGATCAAACTTGCCACCTTTAATGGAAGAACTCTCCGGC  
 CAGGAAGTTCACTGGGCTTGCCAGCTTTCTCATATAGTTTTTTTGTGATAAGAAATGCCAAAGTTGCTGC  
 TTGCATC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

## Protein Sequence:

>RG230134 representing NM\_001166498  
 Red=Cloning site Green=Tags(s)

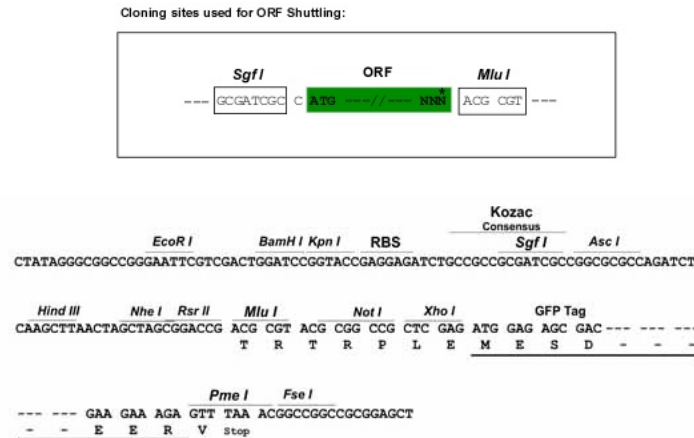
MLLRSPALPPPLMLLLGLPLSPGALPRPAQAQDVVDLDFFTQEPLHLVSPSFLSVTIDANLATDPR  
 FLILLGSPKLRLTARGLSPAYLRFGGTKDFLIFDPKKESTFEERSYQSQVNQDICKYGSIPDVEEKL  
 RLEWPYQEQLLLREHYQKKFNSTYSRSSVDLYTFANCGLDLIFGLNALLRTADLQWNSSNAQLLLDY  
 CSSKGYNISWELGNEPNSFLKKADIFINGSQLGEDFIQLHKLLRKSTFKNAKLYGPDVGGPQRRKTAKMLK  
 SFLKAGGEVIDSVTWHYYLNGRTATKEDFLNPDVLDIFISSVQKVFQDYWL SLLFKKLVGTKVLMASVQ  
 GSKRRKL RVYLHCTNTDNPRYKEGDLTLYAINLHNVTYLRPLPYPF SNKQVDKYLLRPLGPHGLLSKSVQ  
 LNGLTLKMVDDQTL PPLMEKPLRPGSSLGLPAFSYSFFVIRNAKVAACI

TRTRPLE – GFP Tag – V

## Restriction Sites:

Sgfl-MluI

## Cloning Scheme:



ACCN: NM\_001166498

ORF Size: 1407 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\\_001166498.2](#), [NP\\_001159970.1](#)

RefSeq Size: 1595 bp

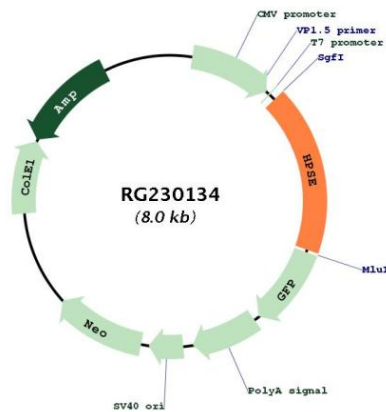
RefSeq ORF: 1410 bp

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 RG230134