

Product datasheet for **RC230257**

HPSE2 (NM_001166246) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPSE2 (NM_001166246) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HPSE2
Synonyms:	HPA2; HPR2; UFS; UFS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC230257 representing NM_001166246
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGGTCTTTGTGCCTTCCCTGAAGCCATGCCTCCAGCAACTCCCGCCCCCGCGTGCCTAGCCC
 CGGGGCTCTCTACTTGGCTCTGTTGCTCCATCTCTCCCTTCTCCAGGCTGGAGACAGGAGACCCTT
 GCCTGTAGACAGAGCTGCAGTTTGAAGAAAAGACCCTGATTCTACTTGATGTGAGCACCAAGAACCCA
 GTCAGGACAGTCAATGAGAACTTCTCTCTGACGCTGGATCCGTCATCATTGATGATGGCTGGCTCG
 ATTTCTAAGCTCCAAGCGCTTGGTGACCTGGCCGGGGACTTTCGCCCGCTTCTGCGCTTCGGGGG
 CAAAAGGACCGACTTCTGCAGTCCAGAACCTGAGGAACCCGGCGAAAAGCCGCGGGGGCCGGGCCCG
 GATTACTATCTCAAAAATATGAGGATGACATTGTTGAAAGTATGTTGCCTTAGATAAACAGAAAGGCT
 GCAAGATTGCCAGCACCTGATGTTATGCTGGAGCTCAAAGGGAGAAGGCAGCTCAGATGCATCTGGT
 TCTTCTAAAGGAGCAATTCTCCAATACTACAGTAATCTCATATTAACAGCCAGGCTCTAGACAACTT
 TATAACTTTGCTGATTGCTCTGGACTCCACCTGATATTTGCTCTAAATGCACTGCGTCTGATCCCAATA
 ACTCTGGAACAGTTCTAGTGCCCTGAGTCTGTTGAAGTACAGCGCCAGCAAAAAGTACAACATTTCTTG
 GAACTGGGTAATGAGCCAAATAACTATCGGACCATGCATGGCCGGGAGTAAATGGCAGCCAGTTGGGA
 AAGGATTACATCCAGCTGAAGAGCCTGTTGACGCCATCCGGATTTATCCAGAGCCAGCTTATATGGCC
 CTAATATTGGGCGGCCGAGGAAGAATGTCATCGCCCTCTAGATGGATTCATGAAGGTGGCAGGAAGTAC
 AGTAGATGCAGTTACCTGGCAACATTGCTACATTGATGGCCGGTGGTCAAGGTGATGGACTTCTGAAA
 ACTCGCTGTTAGACACACTCTGACCCAGATTAGGAAAATTGAGAAAGTGGTAAATACATACACTCCAG
 GAAAGAAGATTTGGCTTGAAGGTGTTGACACCTCAGCTGGAGGCACAAACAATCTATCCGATTCCCTA
 TGCTGCAGGATCTTATGGTTGAACACTTATAGGAATGCTGGCCAATCAGGGCATTGATGTCGTGATACGG
 CACTCATTTTTTACCATGGATAACAATCACCTCGTGGACAGAATTTTAAACCATTACCAGACTACTGGC
 TCTCTCTCTCTACAAGCGCCTGATCGGCCCAAAGTCTTGGCTGTGCATGTGGCTGGGCTCCAGCGGAA
 GCCACGGCCTGGCCGAGTATCCGGGACAACTAAGGATTTATGCTCACTGCACAAACCACCACAACCAC
 AACTACGTTCTGGGTCCATTACACTTTTTATCATCAACTGCATCGATCAAGAAAGAAAATCAAGCTGG
 CTGGGACTCTCAGAGACAAGCTGGTTCACCAGTACCTGCTGCAGCCCTATGGGCAGGAGGGCCTAAAGTC
 CAAAACCAAAGATGTCAATACTGTGGATCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230257 representing NM_001166246
 Red=Cloning site Green=Tags(s)

MRVLCAPPEAMPSSNSRPPACLAPGALYLALLHLSSLSSQAGDRRPLPVDRAAGLKEKTLILLDVSTKNP
 VRTVNENFLSLQLDPSIIHDGWLDLSSKRLVTLARGLSPAFLRFGGKRTDFLQFQNLRNPAKSRGGPGP
 DYYLKNYEDDIVRSDVALDKQKQKIAQHPDVMLELQREKAAQMHVLLKEQFSNTYSNLILTARSLDKL
 YNFADCSGLHLIFALNALRRNPNSWNSSSALLKYSASKKYNISWELGNEPNNYRTHMGRVNGSQLG
 KDYIQLKSLLPQIRIYSRASLYGPNIGRPRKNVIALLDGFMKVAGSTVDAVTWQHCYIDGRVVKVMDFLK
 TRLLDTLSDQIRKIQKVNTYTPGKKIWLQEVVTTTSAGGTNNSDSYAAGFLWNLGMLANQIDVVIR
 HSFFDHGYNHLVDQNFNPLPDYWL SLLYKRLIGPKVLAVHVAGLQRKPRPGRVIRDKLRVIAHCTNHHNH
 NYVRGSITLFIINLHRSRKKIKLAGTLRDKLVHQYLLQPYGQEGLKSKTQRCQYCGII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8037_b02.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001166246

ORF Size: 1644 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_001166246.1](#), [NP_001159718.1](#)

RefSeq ORF: 1647 bp

Locus ID: 60495

UniProt ID: [Q8WWQ2](#)

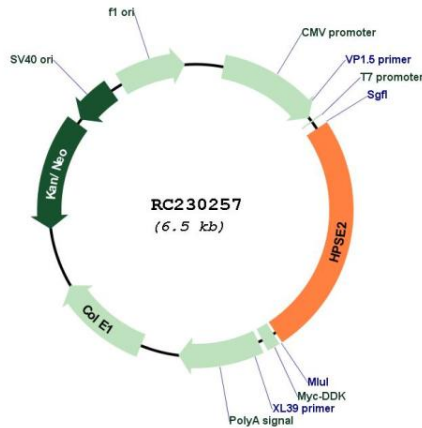
Cytogenetics: 10q24.2

Protein Pathways: Glycosaminoglycan degradation, Metabolic pathways

MW: 62.3 kDa

Gene Summary: This gene encodes a heparanase enzyme. The encoded protein is an endoglycosidase that degrades heparin sulfate proteoglycans located on the extracellular matrix and cell surface. This protein may be involved in biological processes involving remodeling of the extracellular matrix including angiogenesis and tumor progression. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Oct 2009]

Product images:



Circular map for RC230257