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Product datasheet for RC230242

HPSE2 (NM_001166244) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HPSE2 (NM_001166244) 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)

ORF Nucleotide Sequence:

>RC230242 representing NM_001166244
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGGTGCTTTGTGCCTTCCCTGAAGCCATGCCCTCCAGCAACTCCCGCCCCCCCGCGTGCCTAGCCC
CGGGGGCTCTCTACTTGGCTCTGTTGCTCCATCTCTCCCTTTCCTCCCAGGCTGGAGACAGGAGACCCTT
GCCTGTAGACAGAGCTGCAGGTTTGAAGGAAAAGACCCTGATTCTACTTGATGTGAGCACCAAGAACCCA
GTCAGGACAGTCAATGAGAACTTCCTCTCTCTGCAGCTGGATCCGTCCATCATTCATGATGGCTGGCTCG
ATTTCCTAAGCTCCAAGCGCTTGGTGACCCTGGCCCGGGGACTTTCGCCCGCCTTTCTGCGCTTCGGGGG
CAAAAGGACCGACTTCCTGCAGTTCCAGAACCTGAGGAACCCGGCGAAAAGCCGCGGGGGCCCGGGCCCG
GATTACTATCTCAAAAACTATGAGGATGACATTGTTCGAAGTGATGTTGCCTTAGATAAACAGAAAGGCT
GCAAGATTGCCCAGCACCCTGATGTTATGCTGGAGCTCCAAAGGGAGAAGGCAGCTCAGATGCATCTGGT
TCTTCTAAAGGAGCAATTCTCCAATACTTACAGTAATCTCATATTAACAGAGCCAAATAACTATCGGACC
ATGCATGGCCGGGCAGTAAATGGCAGCCAGTTGGGAAAGGATTACATCCAGCTGAAGAGCCTGTTGCAGC
CCATCCGGATTTATTCCAGAGCCAGCTTATATGGCCCTAATATTGGGCGGCCGAGGAAGAATGTCATCGC
CCTCCTAGATGGATTCATGAAGGTGGCAGGAAGTACAGTAGATGCAGTTACCTGGCAACATTGCTACATT
GATGGCCGGGTGGTCAAGGTGATGGACTTCCTGAAAACTCGCCTGTTAGACACACTCTCTGACCAGATTA
GGAAAATTCAGAAAGTGGTTAATACATACACTCCAGGAAAGAAGATTTGGCTTGAAGGTGTGGTGACCAC
CTCAGCTGGAGGCACAAACAATCTATCCGATTCCTATGCTGCAGGATTCTTATGGTTGAACACTTTAGGA
ATGCTGGCCAATCAGGGCATTGATGTCGTGATACGGCACTCATTTTTTGACCATGGATACAATCACCTCG
TGGACCAGAATTTTAACCCATTACCAGACTACTGGCTCTCTCTCCTCTACAAGCGCCTGATCGGCCCCAA
AGTCTTGGCTGTGCATGTGGCTGGGCTCCAGCGGAAGCCACGGCCTGGCCGAGTGATCCGGGACAAACTA
AGGATTTATGCTCACTGCACAAACCACCACAACCACAACTACGTTCGTGGGTCCATTACACTTTTTATCA
TCAACTTGCATCGATCAAGAAAGAAAATCAAGCTGGCTGGGACTCTCAGAGACAAGCTGGTTCACCAGTA
CCTGCTGCAGCCCTATGGGCAGGAGGGCCTAAAGTCCAAGTCAGTGCAACTGAATGGCCAGCCCTTAGTG
ATGGTGGACGACGGGACCCTCCCAGAATTGAAGCCCCGCCCCCTTCGGGCCGGCCGGACATTGGTCATCC
CTCCAGTCACCATGGGCTTTTATGTGGTCAAGAATGTCAATGCTTTGGCCTGCCGCTACCGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230242 representing NM_001166244
Red=Cloning site Green=Tags(s)

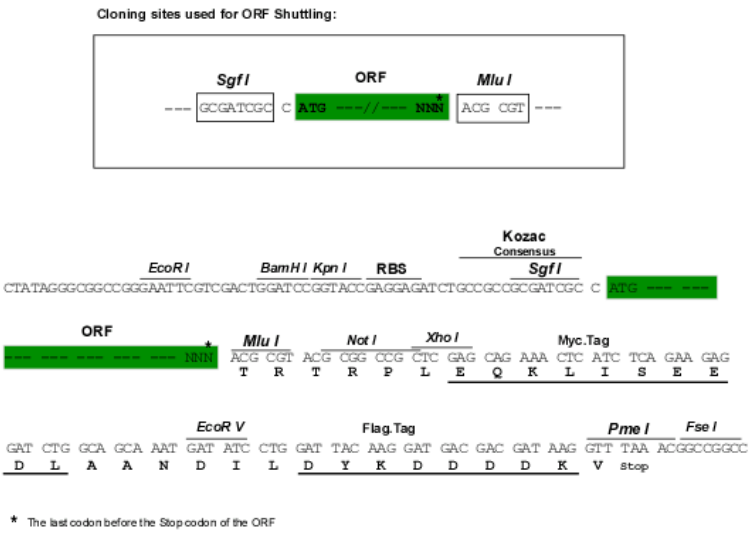
MRVLCAFPEAMPSSNSRPPACLAPGALYLALLLHLSLSSQAGDRRPLPVDRAAGLKEKTLILLDVSTKNP
VRTVNENFLSLQLDPSIIHDGWLDFLSSKRLVTLARGLSPAFLRFGGKRTDFLQFQNLRNPAKSRGGPGP
DYYLKNYEDDIVRSDVALDKQKGCKIAQHPDVMLELQREKAAQMHLVLLKEQFSNTYSNLILTEPNNYRT
MHGRAVNGSQLGKDYIQLKSLLQPIRIYSRASLYGPNIGRPRKNVIALLDGFMKVAGSTVDAVTWQHCYI
DGRVVKVMDFLKTRLLDTLSDQIRKIQKVVNTYTPGKKIWLEGVVTTSAGGTNNLSDSYAAGFLWLNTLG
MLANQGIDVVIRHSFFDHGYNHLVDQNFNPLPDYWLSLLYKRLIGPKVLAVHVAGLQRKPRPGRVIRDKL
RIYAHCTNHHNHNYVRGSITLFIINLHRSRKKIKLAGTLRDKLVHQYLLQPYGQEGLKSKSVQLNGQPLV
MVDDGTLPELKPRPLRAGRTLVIPPVTMGFYVVKNVNALACRYR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8065_h10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001166244

ORF Size: 1602 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_001166244.1, NP_001159716.1

RefSeq ORF: 1605 bp

Locus ID: 60495

UniProt ID: Q8WWQ2

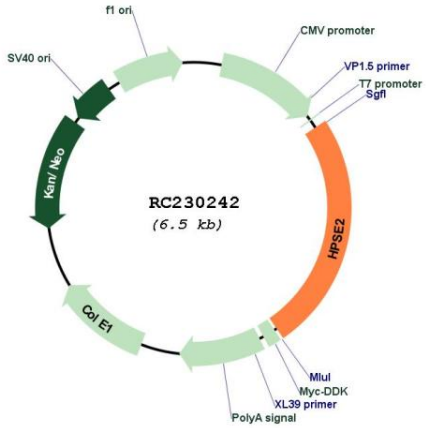
Cytogenetics: 10q24.2

Protein Pathways: Glycosaminoglycan degradation, Metabolic pathways

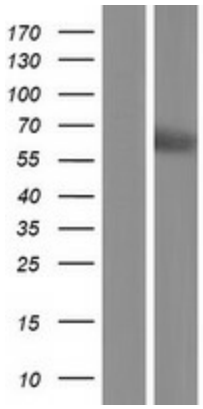
MW: 60.5 kDa

Gene Summary: This gene encodes a heparanase enzyme. The encoded protein is a 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 RC230242



Western blot validation of overexpression lysate (Cat# [LY433242]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC230242 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).