

## Product datasheet for **RG230149**

### HPSE2 (NM\_001166245) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HPSE2 (NM_001166245) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HPSE2
Synonyms:	HPA2; HPR2; UFS; UFS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG230149 representing NM\_001166245  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGGTCTTTGTGCCTTCCCTGAAGCCATGCCTCCAGCAACTCCCGCCCCCGCGTGCCTAGCCC  
 CGGGGCTCTCTACTTGGCTCTGTTGCTCCATCTCTCCCTTCTCCAGGCTGGAGACAGGAGACCCTT  
 GCCTGTAGACAGAGCTGCAGTTTGAAGAAAAGACCCTGATTCTACTTGATGTGAGACCAAGAACCCA  
 GTCAGGACAGTCAATGAGAACTTCTCTCTGTCAGCTGGATCCGTCATCATTGATGATGGCTGGCTCG  
 ATTTCTAAGCTCCAAGCGCTTGGTGACCTGGCCGGGGACTTTCGCCCGCTTCTGCGCTTCGGGGG  
 CAAAAGGACCGACTTCTGCAGTTCAGAACCTGAGGAACCCGGCGAAAAGCCGCGGGGGCCCGGGCCCG  
 GATTACTATCTCAAAAATATGAGGATGAGCCAAATAACTATCGGACCATGCATGGCCGGGCAGTAAATG  
 GCAGCCAGTTGGGAAAGGATTACATCCAGCTGAAGAGCCTGTTGCAGCCCATCCGGATTTATTCCAGAGC  
 CAGCTTATATGGCCCTAATATTGGCGGCCGAGGAAGAATGTCATCGCCCTCTAGATGGATTTCATGAAG  
 GTGGCAGGAAGTACAGTAGATGCAGTTACTGGCAACATTGCTACATTGATGGCCGGGTGGTCAAGGTGA  
 TGGACTTCTGAAAACCTGCCTGTTAGACACACTCTCTGACCAGATTAGGAAAATTCAGAAAAGTGGTTAA  
 TACATACACTCCAGGAAAGAAGATTTGGCTTGAAGGTGTGGTGACCACCTCAGCTGGAGGCACAAAACAT  
 CTATCCGATTCCTATGCTGCAGGATTCTTATGGTTGAACACTTTAGGAATGCTGGCCAATCAGGGCATTG  
 ATGTCGTGATACGGCACTCATTTTTGACCATGGATAAATCACCTCGTGGACCAGAAATTTAACCCATT  
 ACCAGACTACTGGCTCTCTCTCTACAAGCGCTGATCGGCCCAAAGTCTTGGCTGTGCATGTGGCT  
 GGGCTCCAGCGGAAGCCACGGCCTGGCCGAGTGATCCGGGACAACTAAGGATTTATGCTCACTGCACAA  
 ACCACCACAACCAACTACGTTCTGGTCCATTACACTTTTTATCATCAACTGCATCAAGTCAAGAAA  
 GAAAATCAAGCTGGCTGGGACTCTCAGAGACAAGCTGGTTCAACAGTACCTGCTGCAGCCCTATGGGCAG  
 GAGGGCCTAAAGTCCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGT  
 CAGAATTGAAGCCCCGCCCTTCGGGCGGCCGACATTGGTCAATCCCTCCAGTACCATGGGCTTTTA  
 TGTGGTCAAGAATGTCAATGCTTTGGCCTGCCGTACCGA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG230149 representing NM\_001166245  
 Red=Cloning site Green=Tags(s)

MRVLCAPPEAMPSSNSRPPACLAPGALYLALLHLSSLSSQAGDRRPLPVDRAAGLKEKTLILLDVSTKNP  
 VRTVNENFLSLQLDPSIIHDGWLDFLSSKRLVTLARGLSPAFLRFGGKRTDFLQFQNLNPAKSRGGPGP  
 DYYLKNYEDEPNRYRTHGRAVNGSQLGKDYIQLKSLLPQIRIYSRASLYGPNIGRPRKNVIALLDGFMK  
 VAGSTVDAVTWQHCYIDGRVVKVMDFLKTRLLDTLSDQIRKIQKVVNTYTPGKKIWLQEVVTTTSAAGTNN  
 LSDSYAAGFLWNLGMLANQIDVIRHSFFDHGYNHLVDQNFNPLPDYWL SLLYKRLIGPKVLAHVVA  
 GLQRKPRPGRVIRDKLRIYAHCTNHHNHNYVRSITLFIINLHRSRKKIKLAGTLRDKLVHQYLLQPYGQ  
 EGLKSKSVQLNGQPLVMVDDGTLPELKPRLRAGRTLVIIPVMTMGFYVVKVNVNALACRYR

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001166245.1</a></u> , <u><a href="#">NP_001159717.1</a></u>
<b>RefSeq Size:</b>	4013 bp
<b>RefSeq ORF:</b>	1443 bp
<b>Locus ID:</b>	60495
<b>UniProt ID:</b>	<u><a href="#">Q8WWQ2</a></u>
<b>Cytogenetics:</b>	10q24.2
<b>Protein Pathways:</b>	Glycosaminoglycan degradation, Metabolic pathways
<b>Gene Summary:</b>	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]