

Product datasheet for **MC219475**

Hpse2 (NM_001081257) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hpse2 (NM_001081257) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hpse2
Synonyms:	Gm968; Hpa2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC219475 representing NM_001081257
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGTCTGTGCTTTCCCTGAAGCCATGGCCTCCAGCAGCTCCCGCCCCCTCGTGCCTAGCCC
 TGGTGGCTCTCTTCTGGCTCTGTTGCTCCATCTCTCCCTCTCCTTCCAGCTGGAAACAGGAGACCTT
 GCCTGTAGACAGAGCTACAGTTTGAAGGAAAAGACCCTGATTCTACTTGATGTGAGCACCAAGAACCCA
 GTCAGGACAGTCAATGAGAACTTCTCTCTGACGCTGGATCCCTCCATCATTATGATGGCTGGCTCG
 ATTTCTTAAGCTCCAAGCGTCTGGTGACCTTGGCCGGGGACTCTCGCCCGCTTTCTGCGCTTCGGGGG
 CAAAAGGACGGATTTCTGCAGTCCAGAACCTGAGAAATCCGGCGAAAAGCCGCGGGGGCCCGGGCCCG
 GATTACTATCTCAAAAATATGAGGATGACATTGTCCGGAGTGATGTTGCCTTGGACAAGCAGAAAGGCT
 GTAAGATTGCCAGCACCTGATGTCATGCTGGAGCTCCAGAGAGAGAAGGCATCGCAGATGCATCTGGT
 TCTTCTGAAGGAGCAATACTCCAATACTACAGTAACCTCATATTAACAGCCAGGTCTCTAGACAACTT
 TATAACTTTGCTGATTGCTCTGGACTCCACCTGATATTTGCTCTAAATGCACTGCGTCGTAATCCCAATA
 ACTCCTGGAACAGTTCTAGTGCCCTGAGCCTGTTGAAGTACAGTGCCAGCAAAAAGTACAACATTTCTTG
 GAACTGGGTAATGAGCCAAATAACTATCGGAGCATCCATGGCCGGGCAGTAAATGGTAGCCAGTTGGGA
 AAGGATTACATCCAGCTGAAGAGCCTGCTCCAACCCATCCGGGTTTACTCCAGAGCCAGCCTGTACGGCC
 CCAACATCGGACGGCCAGGAAGAACGTCATTGCTCTCTAGATGGATTCATGAAGGTGGCAGGAAGCAC
 AGTGGATGCGGTTACCTGGCAACATTGCTACATTGATGGCCGGTGGTCAAGGTGATGGACTTCTGAAA
 ACTCGTCTGTTAGATACACTCTCTGACCAGATTAGGAAAATTGAGAAAGTGGTCAACACATACACTCCAG
 GAAAGAAGATTTGGCTGGAAGGCGTGGTGACCACCTCAGCTGGAGGCACAAACAATCTGTCGGATTCTA
 CGCTGCAGGATCTTATGGCTAAACACTTTAGGAATGTTGGCCAATCAGGGCATTGATGTCGTGATACGA
 CATTCATTTTTCGACCACGGATAACAACCTCTGGTGGACCAGAATTTTAACCCATTACCAGACTATTGGC
 TTTCTCTGCTTTACAAGCGTCTGATTGGCCCAAAGTCTGCGAGTGCATGTAGCTGGGCTCCAGCGGAA
 GCCTCGGCCAGGAAGAGTCATCCGAGACAACTAAGAATCTATGCTCACTGCACAAACCACCACAACCAC
 AACTATGTCGGTGGCTCTATCACACTTTTCATCATCAACCTACATCGATCAAGAAAGAAAATCAAAGTGG
 CTGGGACTCTGAGGGACAAGCTCGTGCACCAGTATCTGCTGCAGCCCTATGGGCAGGAAGGCCTAAAGTC
 CAAGTCAGTGCAGCTCAATGGCCAGCCCTTAGTGATGGTGGACGACGGGACCCTTCCAGAAGTGAAGCCC
 CGCCCGCTGCGGGCCGGCCGGACATTGGTCATCCCTCCAGTACCATGGGCTTTTATGTGGTCAAGAATG
 TCAATGCTTTGGCTGCCGTTATCGATAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_001081257
Insert Size: 1779 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_001081257.2 , NP_001074726.1
RefSeq Size:	2175 bp
RefSeq ORF:	1779 bp
Locus ID:	545291
UniProt ID:	B2RY83
Cytogenetics:	19 C3
Gene Summary:	Binds heparin and heparan sulfate with high affinity, but lacks heparanase activity. Inhibits HPSE, possibly by competing for its substrates (in vitro) (By similarity).[UniProtKB/Swiss-Prot Function]