

Product datasheet for **MR221855**

Hpse (NM_152803) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Hpse (NM_152803) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hpse
Synonyms:	H; Hpa; Hpr1; HSE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR221855 representing NM_152803
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGAGGCTGCTGCTGCTGTGGCTCTGGGGCCGCTCGGTGCCCTGGCCAGGGCGCCCCGCGGGGA
 CCGCGCCGACCGACGACGTGGTAGACTTGGAGTTTTACACCAAGCGGCCGCTCCGAAGCGTGAGTCCCTC
 GTTCTGTCCATCACCATCGACGCCAGCCTGGCCACCGACCCGCGCTTCTCACCTTCTGGGCTCTCCA
 AGGCTCCGTGCTCTGGCTAGAGGCTTATCTCTGCATACTTGAGATTTGGCGGCACAAAGACTGACTTCC
 TTTTTTTGATCCGGACAAGGAACCGACTTCCGAAGAAAGAAAGTTACTGGAAATCTCAAGTCAACCATGA
 TATTTGCAGGTCTGAGCCGGTCTCTGCTGCGGTGTTGAGGAACTCCAGGTGGAATGGCCCTTCCAGGAG
 CTGTTGCTGCTCCGAGAGCAGTACAAAAGGAGTTCAAGAACAGCACCTACTCAAGAAGCTCAGTGGACA
 TGCTCTACAGTTTGCCTAAGTCTCGGGTTAGACCTGATCTTTGGTCTAAATGCGTTACTACGAACCCC
 AGACTTACGGTGAACAGCTCCAACGCCAGCTTCTCCTTGACTACTGCTTCCAAAGGTTATAACATC
 TCTTGGAACTGGCAATGAGCCCAACAGTTTCTGGAAGAAAGCTCACATTCTCATCGATGGGTTGCAGT
 TAGGAGAAGACTTTGTGGAGTTGCATAAACTTCTACAAAGGTCAGCTTCCAAAAATGCAAAACTCTATGG
 TCCTGACATCGGTGAGCCTCGAGGGAAGACAGTTAAACTGCTGAGGAGTTTCTGAAGGCTGGCGGAGAA
 GTGATCGACTCTTACATGGCATCACTATTACTTGAATGGACGCATCGCTACCAAAGAAGATTTTCTGA
 GCTCTGATGTGCTGGACACTTTTATTCTCTGTGCAAAAAATCTGAAGGTCACAAAGAGATCACACC
 TGGCAAGAAGGTCTGGTGGGAGAGACGAGCTCAGCTTACGGTGGCGGTGCACCTTGTGTCCAACACC
 TTTGCAGCTGGCTTATGTGGCTGGATAAATGGGCTGTGAGCCAGATGGGCATAGAAGTCTGATGATGA
 GGCAGGTGTTCTCGGAGCAGGCAACTACCCTTAGTGGATGAAAACCTTTGAGCCTTACCTGATTACTG
 GCTCTCTCTTCTGTTCAAGAAACTGGTAGTCCCAGGGTGTACTGTCAAGAGTGAAGGCCAGACAGG
 AGCAAACTCCGAGTGTATCTCCACTGCACTAACGTCTATCACCCAGATATCAGGAAGGAGATCTAACTC
 TGTATGCTGAACTCCATAATGTCACCAAGCACTTGAAGGTACCGCCTCCGTTGTTCCAGGAAACCAGT
 GGATACGTACCTTCTGAAGCCTTCGGGGCCGGATGGATTACTTTCCAAATCTGTCCAACCTGAACGGTCAA
 ATTCTGAAGATGGTGGATGAGCAGACCCTGCCAGCTTTGACAGAAAACTCTCCCCGAGGAAGTGAC
 TAAGCTGCCTGCTTTTCTATGGTTTTTTTGTGATAAGAAATGCCAAATCGCTGCTTGATA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221855 representing NM_152803
 Red=Cloning site Green=Tags(s)

MLRLLLLLWLGPLGALAQGAPAGTAPTDDVVDLEFYTKRPLRSVSPSFLSITIDASLATDPRFLTFLGSP
 RLRALARGLSPAYLRFGGTKDFLIFDPDKEPTSEERSYWSQVNHDIRSEPVSAAVLRKLQVEWPFQE
 LLLLREYQKEFKNSTYSRSSVDMLYSFAKCSGLDLIFGLNALLRTPDLRWNSSNAQLLLDYCSSKGYNI
 SWELGNEPNSFWKKAHILIDGLQLGEDFVELHKLLQRSFQNAKLYGPDIGQPRGKTVKLLRSFLKAGGE
 VIDSLTWHHYLNGRIATKEDFLSSDVLDTFILSVQKILKVTKEITPGKKVWLGETSSAYGGGAPLLSNT
 FAAGFMWLDKLGLSAQMGIEVVMRQVFFGAGNYHLVDENFEPLPDYWLSLLFKKLVGPRVLLSRVKGPD
 SKLRVYLHCTNVYHPRYQEGDLTYVNLNHNVTKHLKVPPLFRKPVDTYLLKPSGPDGLLSKSVQLNGQ
 ILKMWDEQTLPALTEKPLPAGSALSLPAFSYGFVIRNAKIAACI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9007_c01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_152803

ORF Size: 1605 bp

OTI Disclaimer: 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.

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).

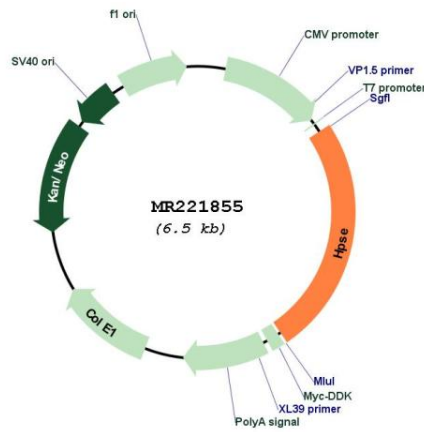
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_152803.5](#)

RefSeq Size: 3082 bp
 RefSeq ORF: 1608 bp
 Locus ID: 15442
 UniProt ID: [Q6YGZ1](#)
 Cytogenetics: 5 E4
 MW: 60.5 kDa

Gene Summary: This gene encodes an endoglucuronidase enzyme that plays an important role in tumor invasion and metastasis. The encoded preproprotein undergoes proteolytic processing to generate an active heterodimeric enzyme that cleaves the heparan sulfate proteoglycans associated with the cell surface and extracellular matrix. Mice lacking the encoded protein do not show any prominent pathological alterations under normal conditions but fail to develop albuminuria and renal damage in response to drug-induced diabetes. [provided by RefSeq, Aug 2016]

Product images:



Circular map for MR221855