

Product datasheet for **MR221484**

Hpse2 (NM_001081257) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR221484 representing NM_001081257
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGGTCTGTGCTTTCCCTGAAGCCATGGCTCCAGCAGCTCCCGCCCCCTCGTGCCTAGCCC
 TGGTGGCTCTCTTGGCTCTGTTGCTCCATCTCCTCCTCCACGCTGGAAACAGGAGACCTTT
 GCCTGTAGACAGAGCTACAGTTTGAAGGAAAAGACCCTGATTCTACTTGATGTGAGCACCAAGAACCCA
 GTCAGGACAGTCAATGAGAACTTCTCTCTGACGCTGGATCCCTCCATCATTATGATGGCTGGCTCG
 ATTTCTTAAGCTCCAAGCGTCTGGTGACCTGGCCGGGGACTCTCGCCCGCTTTCTGCGCTTCGGGGG
 CAAAAGGACGGATTTCTGCAGTCCAGAACCTGAGAAATCCGGCGAAAAGCCGCGGGGGCCCGGGCCCG
 GATTACTATCTCAAAAATATGAGGATGACATTGTCCGGAGTGATGTTGCCTTGACAAGCAGAAAGGCT
 GTAAGATTGCCAGCACCTGATGTCATGCTGGAGCTCCAGAGAGAGAAGGCATCGCAGATGCATCTGGT
 TCTTCTGAAGGAGCAATACTCCAATACTACAGTAACCTCATATTAACAGCCAGGTCTCTAGACAACTT
 TATAACTTTGCTGATTGCTCTGGACTCCACCTGATATTTGCTCTAAATGCACTGCGTCTGATCCCAATA
 ACTCCTGGAACAGTTCTAGTGCCCTGAGCCTGTTGAAGTACAGTGCCAGCAAAAAGTACAACATTTCTTG
 GAACTGGGTAATGAGCCAAATAACTATCGGAGCATCCATGGCCGGGCAGTAAATGGTAGCCAGTTGGGA
 AAGGATTACATCCAGCTGAAGAGCCTGCTCAACCCATCCGGGTTTACTCCAGAGCCAGCCTGTACGGCC
 CCAACATCGGACGGCCAGGAAGAAGCTCATTGCTCTCTAGATGGATTCATGAAGGTGGCAGGAAGCAC
 AGTGGATGCGGTTACCTGGCAACATTGCTACATTGATGGCCGGTGGTCAAGGTGATGGACTTCTGAAA
 ACTCGTGTGTTAGATACACTCTGACCAGATTAGGAAAATTAGAAAAGTGGTCAACACATACACTCCAG
 GAAAAGAAGATTTGGCTGGAAGCGTGGTGACCACCTCAGCTGGAGGCACAAAACATCTGTCGGATTCTTA
 CGCTGCAGGATCTTATGGCTAAACACTTTAGGAATGTTGGCCAATCAGGGCATTGATGTCGTGATACGA
 CATTCAATTTTTCGACCACGGATAACAACCTCTGGTGGACCAGAATTTTAAACCATTACCAGACTATTGGC
 TTTCTCTGCTTTACAAGCGTCTGATTGGCCCCAAAGTCTGGCAGTGCATGTAGCTGGGCTCCAGCGGAA
 GCCTCGGCCAGGAAGAGTCATCCGAGACAACTAAGAATCTATGCTCACTGCACAAACCACCACAACCAC
 AACTATGTCGGTGGCTCTATCACACTTTTCATCATCAACCTACATCGATCAAGAAAGAAAATCAAAGTGG
 CTGGGACTCTGAGGGACAAGCTCGTGCACCAGTATCTGCTGCAGCCCTATGGGCAGGAAGGCTAAAGTC
 CAAGTCAGTGCAGCTCAATGGCCAGCCCTTAGTGATGGTGGACGACGGGACCCCTCCAGAAGTGAAGCCC
 CGCCCGCTGCGGGCCGGCCGGACATTGGTTCATCCCTCCAGTCACCATGGGCTTTTATGTGGTCAAGAAATG
 TCAATGCTTTGGCTGCCGTTATCGA

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221484 representing NM_001081257
 Red=Cloning site Green=Tags(s)

MRVLCAPPEAMASSSRPPSCLALVALFLALLLHLSLFSHAGNRRPLPVDRATGLKEKTLILLDVSTKNP
 VRTVNFENFLSLQLDPSIIHDGWLDFLSSKRLVTLARGLSPAFLRFGGKRTDFLQFQNLNPAKSRGGPGP
 DYLLKNYEDDIVRSDVALDKQKQKIAQHPDVMLELQREKASQMHLLVLLKEQYSNTYSNLILTARSLDKL
 YNFADCSGLHLIFALNALRRNPNSWNSSALSLLKYSASKKYNI SWELGNEPNNYRSIHGRAVNGSQLG
 KDYIQLKSLQLPIRVYSRASLYGPNIGRPRKNVIALLDGFMKVAGSTVDAVTWQHICYIDGRVVKVMDFLK
 TRLLDTLSDQIRKIQKVNTYTPGKKIWLEGVVTT SAGGTNNLSDSYAAGFLWLNTLGMLANQGIDVVIR
 HSFFDHGYNHLVDQNFNPLPDYWL SLLYKRLIGPKVLAVHVAGLQRKPRGRVIRDKLRIYAHCTNHHNH
 NYVRGSITLFIINLHRSRKKIKLAGTLRDKLVHQYLLQPYQEGLEKSKSVQLNGQPLVMVDDGTLPELKP
 RPLRAGRTLVIIPVMTMGFYVVKVNVNACRYR

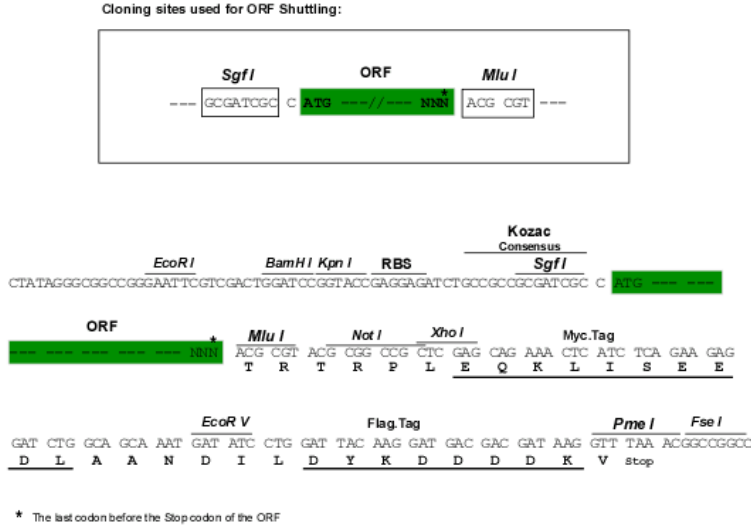
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1785_f03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001081257

ORF Size: 1776 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_001081257.2](#), [NP_001074726.1](#)

RefSeq Size: 2131 bp

RefSeq ORF: 1779 bp

Locus ID: 545291

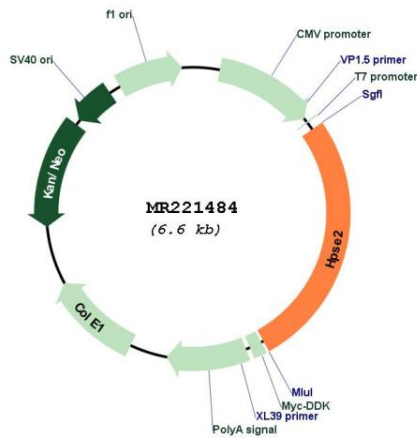
UniProt ID: [B2RY83](#)

Cytogenetics: 19 C3

MW: 67.1 kDa

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]

Product images:



Circular map for MR221484