

## Product datasheet for **MC206785**

### Hrg (BC011168) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hrg (BC011168) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hrg
Synonyms:	HPRG, HRGP, D16JH2, D18020
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for BC011168, the custom clone sequence may differ by one or more nucleotides

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ATGAAGGTGCTCACCACAGCATTGCTTCTAGTCACCCTGCAGTGTCCCATGCCCTGAGTCCCACCAACT
GTGATGCTTCTGAGCCTCTGGCTGAGAAAGTTCTAGACCTGATCAATAAAGGGCGGAGGAGTGGCTATGT
TTTCGAGCTGCTGCGGGTCTCTGACGCCCACTTGGACAGAGCGGGAACGGCCACAGTCTACTACTTAGCT
TTAGATGTGATAGAGTCTGACTGTTGGTCTTTCCACAAAAGCCAGGATGACTGTCTCCATCGAGGT
GGCAATCTGAAATAGTGATTGGACAATGAAGGTAATAGCCACAAGATACTCAAATGAGTCTCAAGATCT
TAGCGTGAATGGCTATAACTGCACCACAAGTTCTGTCTTTCAGCACTTCGCAATACCAAGGACAGTCTCT
GTAATCTTGGACTTCTTTGAGGATTCCGAGCTCTACAGAAAGCAAGCCCGTAAAGCCCTGGACAAGTACA
AAACGGATAATGGTGACTTTGCCTCTTTCAGAGTGAACGGGCAGAACGGGTTATAAGAGCGAGAGGAGG
GGAAAGAACCAATTAATGTGGAATTCCATGAGGAACTGTTCCACACAGCATTTCGCCAGGTCCCCT
CTGGTCTTTGGATTCTGCAGAGCACTTTTGTCTACAGTATAGAAACCTCTGACTTGAAACCCAGATT
CCATTGATATAAACTGCGAAGTCTTCAACATTGAGGATCATAAAGACACAAGTGACATGAAACCCATTG
GGCCATGAGCGTCTCTTTGTGACAAACATCTGTGTAAGCTCAGTGGATCCAGGATCATCATCATACC
CATAAGACAGATAAACTTGGATGCCACCTCCACCAGAAGGAAAAGATAACTCAGACAGACCACGCCCTTC
AAGAAGGAGCCCTTCCACAACCTGCCCTGGCTATCCCCCTATTCTGGTGCCAACAGAACCATAGACC
CTCTTATAATCACAGTTGTAATGAGCATCCTTGTGATGGACATCGTCCCATGGACACCACCCACAGT
CACCATCCCCCGGTACCATTCCCATGGTACCATCCCCACGGTACCATCCCCACAGTACCATTCCC
ACGGTACCATCCCCCGGTACCATCCCCATGGTACCACCCCGGTACCATCCCCATGGTACCA
TCCCCACGGTACCATCCCTCATGGACATGACTTCTTACTATGGACCTTGTGACCCGCCCTCCAATAGT
CAAGAAGTCAAAGGTGAGTATCATCGGGGCTATGGTCCACCACATGGACACTCAAGAAAAGAGGTCCAG
GCAAAGGACTCTTCTTTCCACCACCAAAATTTGGATATGTCTACCGACTCCCTCCACTGAATATAGG
TGAAGTCTCACTCTTCTGAAGCAATTTCCCGAGTCTCTTTGCCAATTGCAACAGATCCCTACAA
CCAGAGATTACGCCCTCCCTCAGACAGCTCCAGGTCATGTCCAGGAAATTTGAGAGTGAATTTCCAC
AAATTTCCAAGTTTTTTGGATATACACCTCCAAAATAA
    
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**Restriction Sites:** RsrII-NotI

**ACCN:** BC011168

**Insert Size:** 1578 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC011168](#), [AAH11168](#)

RefSeq Size: 1691 bp

RefSeq ORF: 1578 bp

Locus ID: 94175

Cytogenetics: 16 13.79 cM

**Gene Summary:** Plasma glycoprotein that binds a number of ligands such as heme, heparin, heparan sulfate, thrombospondin, plasminogen, and divalent metal ions. Binds heparin and heparin/glycosaminoglycans in a zinc-dependent manner. Binds heparan sulfate on the surface of liver, lung, kidney and heart endothelial cells. Binds to N-sulfated polysaccharide chains on the surface of liver endothelial cells. Inhibits rosette formation. Acts as an adapter protein and is implicated in regulating many processes such as immune complex and pathogen clearance, cell chemotaxis, cell adhesion, angiogenesis, coagulation and fibrinolysis. Mediates clearance of necrotic cells through enhancing the phagocytosis of necrotic cells in a heparan sulfate-dependent pathway. This process can be regulated by the presence of certain HRG ligands such as heparin and zinc ions. Binds to IgG subclasses of immunoglobins containing kappa and lambda light chains with different affinities regulating their clearance and inhibiting the formation of insoluble immune complexes. Tethers plasminogen to the cell surface. Binds T-cells and alters the cell morphology. Acts as a regulator of the vascular endothelial growth factor (VEGF) signaling pathway; inhibits endothelial cell motility by reducing VEGF-induced complex formation between PXN/paxillin and ILK/integrin-linked protein kinase and by promoting inhibition of VEGF-induced tyrosine phosphorylation of focal adhesion kinases and alpha-actinins in endothelial cells. Also plays a role in the regulation of tumor angiogenesis and tumor immune surveillance. Normalizes tumor vessels and promotes antitumor immunity by polarizing tumor-associated macrophages, leading to decreased tumor growth and metastasis (By similarity). Modulates angiogenesis by blocking the CD6-mediated antiangiogenic effect of thrombospondins, THBS1 and THBS2. [UniProtKB/Swiss-Prot Function]