

## Product datasheet for **SC119916**

### HRG (NM\_000412) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HRG (NM_000412) Human Untagged Clone
Tag:	Tag Free
Symbol:	HRG
Synonyms:	HPRG; HRGP; THPH11
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_000412, the custom clone sequence may differ by one or more nucleotides

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ATGAAGGCACTCATTGCAGCACTGCTTTTGATCACATTGCAGTATTCGTGTGCCGTGAGTCCCCTGACT
GCAGTGTCTTTGAGCCGGAGGCTGAGAAAGCTCTAGACCTGATCAATAAAAGGCGACGGGATGGCTACCT
TTTCCAATTGCTGCGGATTGCTGATGCCCACTTGGACAGAGTGGAAAATACAACCTGTATATTACTTAGTC
TTAGATGTGCAAGAATCGGACTGTTCCGGTCTATCCAGGAAATACTGGAATGACTGTGAGCCACCTGATT
CCAGACGTCCATCTGAAATAGTGATCGGACAATGTAAGGTAATAGCTACAAGACATTCCCATGAATCTCA
GGACCTCAGAGTGATTGACTTTAACTGCACCACAAGTTCTGTCTCTTCAGCACTGGCCAATACCAAAGAT
AGTCCGGTCTCATAGATTTCTTTGAGGATACTGAGCGCTACAGAAAACAAGCCAACAAAGCCCTTGAGA
AGTACAAAGAGGAGAATGATGACTTTGCCTCTTTCAGAGTGGACCGAATCGAGAGAGTTGCAAGAGTGAG
AGGAGGGGAAGGAAGTGGTTACTTCGTGGACTTCTCTGTGCGGAAGTCCCCAGACACCATTTCCCAGAC
CACCCCAATGTCTTTGGATTCTGCAGAGCAGATTTGTTCTATGATGTAGAAGCCTTGGACTTGGAAAGCC
CGAAAAACCTTGCATAAACTGTGAAGTCTTCGACCCTCAGGAACATGAGAATCAATGGTGTACCGCC
TCATTTGGGACATCCCTTCCACTGGGGTGGGCATGAGCGTTCTTCTACCACCAAGCCTCCATTCAAGCCC
CATGGATCTAGAGATCATCATATCCCCACAAGCCACACGAACATGGACCCCACTCCTCCAGATGAAA
GAGATCACTCACATGGACCCCACTTCCACAAGGCCCTCCTCCACTATTGCCCATGTCTCTCAAGTTG
TCAACATGCCACTTTTGGCACAATGGGGCCAAAGACATTCTCATAATAATAATTCCAGTGACCTCCAT
CCCCATAAGCATCATTCCCATGAACAGCATCCCCACGGACACCATCCCCATGCACACCATCCTCATGAAC
ATGATACCCATAGACAGCATCCCCATGGACACCACCCCATGGACACCATCCTCATGGACACCACCCCA
TGGACACCATCCCCATGGACACCATCCCCACTGCCATGATTTCCAAGACTATGGACCTTGTGACCCACA
CCCCATAACCAAGGTCACTGTTGCCATGGCCACGGCCACCACCTGGGCACCTTAAGAAGGGGAGGCCAG
GTAAAGGACCCCGTCCCTTCCATTGCAGACAAATTGGATCTGTGTACCGACTCCCTCCTAAGAAAAGG
TGAGGTGCTGCCACTTCTGAGGCCAATTTTCCAGCTTCCCATTGCCGACACACAACATCCTCTAAAG
CCAGACAATCAGCCCTTCTCAATCAGTCTCTGAATCATGTCCAGGGAAGTTCAAGAGTGGGTTTCCAC
AAGTTTCCATGTTTTTACACATACATTCCAAAATAA
    
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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000412 unedited

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AAAGTTACATTTGTATACGACTCATATAGGCGGCCGCGCAATTCGCACGAGAATGAAGG
CACTCATTGCAGCACTGCTTTTGATCACATTGCAGTATTCGTGTGCCGTGAGTCCCCTG
ACTGCAGTGTCTTTGAGCCGGAGGCTGAGAAAGCTCTACACCTGATCAATAAAAGGCGAC
GGGATGGTACCTTTTCCAATTGCTGCGGATTGCTGATGCCCACTTGGACAGAGTGGAAA
ATACAACCTGTATATTACTTAAATGTGCAAGAATCGGACTGTTCCGGTCTATCCA
GGAAATACTGGAATGACTGTGAGCCACCTGATTCAGACGTCCATCTGAAATAGTGATCG
GACAATGTAAGGTAATAGCTACAAGACATTCCCATGAATCTCATGACCTCACAGTGATTG
ACTTTAACTGCACCACAAGTTCTGTCTTCAACACTGGCCAATACCAAAGATAGTCCGG
TCTCATAGATTTCTTTGAGGATACTGAGCGCTACAGAAAACAAGCCAACAAAGCCCTTG
AGAAGTACAAAGAGGACAATGATGACTTTGCCTCTTTCAGAGTGGACCGAATCGAGAGAG
TTGCAAGAGTGAGAGGAGGGCGAAGGAAGTGGTTACTTCGTGGACTTCTCTGTGCGGAAC
TGCCCCAGACACCATTTCCCAGACACCCCAATGTCTTTGGATTCTGCAGAGCATATTTG
TTCTATGATGTAAAAGCCTTGGACTTGGTAAGCCCGACAAACTTGCATAAACTGTGAAG
TCTTCGACCCTCAAGAACATGAGAACTCAATGGTGTACCGCCTCATTGGGACATCCCTT
ACCTGGTGGTGGGCATGAACGTTCTTCTACCACCAACCTCCTTTTCCAGCCCATGGATCTT
GAGATCATCATATCCGCA
    
```

**Restriction Sites:** NotI-NotI

**ACCN:** NM\_000412

**Insert Size:** 2000 bp

<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<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>	<a href="#">NM_000412.2</a> , <a href="#">NP_000403.1</a>
<b>RefSeq Size:</b>	1964 bp
<b>RefSeq ORF:</b>	1578 bp
<b>Locus ID:</b>	3273
<b>UniProt ID:</b>	<a href="#">P04196</a>
<b>Cytogenetics:</b>	3q27.3
<b>Domains:</b>	CY
<b>Protein Families:</b>	Secreted Protein
<b>Gene Summary:</b>	This histidine-rich glycoprotein contains two cystatin-like domains and is located in plasma and platelets. The physiological function has not been determined but it is known that the protein binds heme, dyes and divalent metal ions. The encoded protein also has a peptide that displays antimicrobial activity against <i>C. albicans</i> , <i>E. coli</i> , <i>S. aureus</i> , <i>P. aeruginosa</i> , and <i>E. faecalis</i> . It can inhibit rosette formation and interacts with heparin, thrombospondin and plasminogen. Two of the protein's effects, the inhibition of fibrinolysis and the reduction of inhibition of coagulation, indicate a potential prothrombotic effect. Mutations in this gene lead to thrombophilia due to abnormal histidine-rich glycoprotein levels. [provided by RefSeq, Nov 2014]