

## Product datasheet for **MC221480**

### Hgs (NM\_008244) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Hgs (NM_008244) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Hgs
Synonyms:	Hgr; Hrs; tn; ZFYVE8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC221480 representing NM\_008244  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGCGAGGCAGCGGCACCTTCGAGCGTCTCCTAGACAAAGCCACCAGCCAGCTTCTGTTGGAGACAG  
 ACTGGGAGTCCATTCTACAGATCTGCGACTGATCCGTCAGGGGACACACAAGCAAAATATGCTGTAAA  
 CTCATCAAGAAGAAGGTTAATGATAAGAACCACACGTGGCTTTGTATGCTCTGGAGGTGATGGAGTCT  
 GTGGTAAAGAACTGTGGCCAGACAGTCCATGATGAAGTGGCCAACAACAGACCATGGAAGAAGTGAAGG  
 AGCTGCTGAAGAGGCAAGTGAAGTAAATGTTCCGAACAAGATCTTGTACCTGATCCAGGCCCTGGGCACA  
 TGCCTCCGGAACGAACCAAGTACAAGTGGTCCAGGACACATACCAGATCATGAAGGTAGAAGGACAT  
 GTCTTCCCTGAATTTAAGGAAAGTATGCCATGTTGCTGCTGAAAGAGCCCTGACTGGGTGGATGCTG  
 AGGAATGCCATCGGTGCAGAGTACAGTTTGGGGTGGTGACCCGCAAGCATCACTGCCGAGCATGTGGGCA  
 GATCTTCTGTGGCAAGTCTCCTCAAGTACTCCACCATCCCAAGTTCGGCATTGAGAAGGAGGTGCCG  
 GTGTGTGAGCCCTGCTATGAGCAGCTGAACAAGAAGGCAGAAGGGGAAAGGCTTCTCTACCACTGAGCTGC  
 CCCCAGAGTACCTGACCAGCCCCCTGTCACAGCAGTCTCAGCTGCCCCAAAGCGGGATGAGACAGCCCT  
 GCAGGAAGAGGAGGAGCTACAGCTGGCTCTGGCCCTATCACAGTCAGAGGCTGAGGAGAAAGAGAGGATG  
 AGACAGAAAACAACATATACAGCACATCCAAGGCAGAGCCCACGCCCTTGGCTTCTCTGCGCCCCCAG  
 CTGGCAGCCTGTATTCTCGCCTGTGAAGTCAACAGCCTCTGGCTGAGGACATCGACCCTGAGCTTGC  
 AAGTACCTCAACCGAACTACTGGGAGAAGAAACAGGAGGAAGCACGGAAGAGCCCCACACCATCTGCA  
 CCTGTGCCCTGACAGAGCCTGCTGCCAGCCTGGAGAAGGACATACAGCCCCAACAGCATGGCAGAGG  
 CTCCTCTCCAGAGACAGACTCTCAGCCATAACTCCCTGCAGCGGCCCTTTAGTGATACCAGAATGG  
 GGAGTCGGAGGAGGCCATGAGCAGTTCCCTCAAGGCCCTGCAGAATGCCGTGAGCACTTTTGTCAACCGC  
 ATGAAGAGCAACCACATGCGGGGACGCAGCATACCAACGACTCGGCTGTGCTGCTACTCTTCCAGTCCA  
 TCAACACCATGCACCCGAGCTGCTCGAGCTGCTCAACCAGCTGGATGAGCGCAGGCTGTACTACGAGGG  
 CCTTCAGGACAAGCTGGCACAGATACGTGACGCCGAGGGGCTCTGAGCGCCTGCGTGAAGAACACAGG  
 GAGAAGCTGCGCCGGCAGCTGAGGAGGCTGAGCGTCAACGCCAGATCCAGCTGGCACAGAACTGGAGA  
 TCATGAGACAGAAGAAGCAGGAGTACCTGGAGGTGCAGAGACAGTAGCTATCCAGCGCCTGCAGGAACA  
 GGAGAAGGAACGGCAGATGCGTCTGGAGCAACAGAAGCAGACTGTCCAGATGCGCGCCAGATGCCTGCC  
 TTTCCCTTGCTTATGCCAGCTCCAGGCTATGCCACGGCTGGGGGTGACTCTACCAGCCCTCAGGCC  
 CAACCAGCTTCCCTGCCACCTTCAGCCCAGCAGGCTCAGTAGAGGGCTCTCCGATGCATGGTGTGTATAT  
 GAGCCAGCCAGCCCCAGCCACTGGCCCCCTACCCAGCATGCCTGGCACAACAGCAGATCCCAGCATGGTC  
 AGCGCCTACATGTACCAACAGGTGCCCTGGGGCACAGGCAGCCCTCAGGCCAGGCCGGGCCACCA  
 CCAGTCTGCCTACTCCTCCTACCAGCCCACCAACCCAGGCTACCAGAGCGTGGCTTCTCAGGCCCC  
 ACAGAGCTCCCAGCCATCTCACAGCTCCACAGACCAGCAACATAGGCTACATGGGGAGCCAGCCAATG  
 TCCATGGGCTACCAGCCGTACAATATGCAGAATCTCATGACCGCCTTCCCGGCAGGATGCGTCTCTGC  
 CAGCCCAGCAGCCCTACATCCCAGGGCAGCAGCCCTGTACCAGCAGATGGCCCCAGCACCGGCCCTCC  
 CCAGCAGCAACCCCTGTGGCCCAGCCAGCGCTACACAGGGACCGCCAGCACAGGGCAGTGAGGCCAG  
 CTCATCTCCTTTGACTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul  
**ACCN:** NM\_008244  
**Insert Size:** 2328 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_008244.3</a> , <a href="#">NP_032270.3</a>
<b>RefSeq Size:</b>	2905 bp
<b>RefSeq ORF:</b>	2328 bp
<b>Locus ID:</b>	15239
<b>UniProt ID:</b>	<a href="#">Q99LI8</a>
<b>Cytogenetics:</b>	11 84.16 cM
<b>Gene Summary:</b>	<p>Involved in intracellular signal transduction mediated by cytokines and growth factors. When associated with STAM, it suppresses DNA signaling upon stimulation by IL-2 and GM-CSF. Could be a direct effector of PI3-kinase in vesicular pathway via early endosomes and may regulate trafficking to early and late endosomes by recruiting clathrin. May concentrate ubiquitinated receptors within clathrin-coated regions. Involved in down-regulation of receptor tyrosine kinase via multivesicular body (MVBs) when complexed with STAM (ESCRT-0 complex). The ESCRT-0 complex binds ubiquitin and acts as sorting machinery that recognizes ubiquitinated receptors and transfers them to further sequential lysosomal sorting/trafficking processes. May contribute to the efficient recruitment of SMADs to the activin receptor complex. Involved in receptor recycling via its association with the CART complex, a multiprotein complex required for efficient transferrin receptor recycling but not for EGFR degradation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site, compared to variant 1. This difference results in a protein (isoform 2) that is one amino acid shorter than isoform 1.</p>