

Product datasheet for **SC117221**

HGS (NM_004712) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HGS (NM_004712) Human Untagged Clone
Tag:	Tag Free
Symbol:	HGS
Synonyms:	HRS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene sequence for NM_004712 edited
 GAATTCGGCACGAGGGAAGGAGGAGCTGCTGTGTCCCCGCCTCCTCCTCCCCATTT
 CCGCGCTCCCGGGACCATGTCCGCGCTGGCGGGTGAAGATGTCTGGAGGTGCCAGGCTG
 TGGGGACCACATTGCTCCAAGCCAGATATGGTACAGGACTGTCAACGAAACCTGGCACGG
 CTCTTGCTTCCGGTGTTCAGAATGCCAGGATCCCTCACCAACTGGTACTATGAGAAGGA
 TGGGAAGCTCTACTGCCCAAGGACTACTGGGGGAAGTTTGGGGAGTTCTGTCATGGGTG
 CTCCTCTGCTGATGACAGGGCCTTTTATGGTGGCTGGGGAGTTCAAGTACCACCCAGAGT
 CTTTGCCTGTATGAGCTGCAAGGTGATCATTGAGGATGGGGATGCATATGCACTGGTGCA
 GCATGCCACCCTCTACTGTGGGAAGTGCCACAATGAGGTGGTGGTGGCACCCATGTTTGA
 GAGACTCTCCACAGAGTCTGTTCAGGAGCAGCTGCCCTACTCTGTACGCTCATCTCCAT
 GCCGGCCACCACTGAAGGCAGCGGGGCTTCTCCGTGTCCGTGGAGAGTGCCTGTCCAA
 CTACGCCACCACTGTGCAAGTAAAAGAGGTCAACCGGATGCACATCAGTCCCAACAATCG
 AAACGCCATCCACCCTGGGGACCGCATCCTGGAGATCAATGGGACCCCGTCCGCACACT
 TCGAGTGGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXGAAACAAACAGTACAAGCAC
 AGGAAGAGGCTGGGGACTAGAAAGAGGCCCTGCCCTCTAGAAAGCTCAGATCTTGGCTT
 CTGTTACTCATACTCGGGTGGGCTCCTTAGTCAGATGCCTAAAACATTTTGCCTAAAGCT
 CGATGGGTCTTGAGGACAGTGTGGCTTGTACAGGCCTAGAGTCTGAGGGAGGGGAGTG
 GGAGTCTCAGCAATCTCTTGGTCTTGGCTTTCATGGCAACCACTGCTCACCTTCAACATG
 CCTGGTTTAGGCAGCAGCTTGGGCTGGGAAGAGGTGGTGGCAGAGTCTCAAAGCTGAGAT
 GCTGAGAGAGATAGTCCCTGAGCTGGGCCATCTGACTTCTACCTCCCATGTTTGTCTTC
 CCAACTCATTAGTCTCTGGGCAGCATCCTCCTGAGCCACATGTGCAGGACTGAAAAACC
 TCCATCTTGGCTCCCAGAGCTCTAGGAACTTTCATCACAAGTATTTGCCTCTTCTAA
 GTGTCTATGAGCTTGACCATATTTAATAAATTGGGAATGGGTTTGGGGTATTAATGCAA
 TGTGTGGTGGTTGTATTGGAGCAGGGGAATTGATAAAGGAGAGTGGTTGCTGTTAATAT
 TATCTTATCTATTGGGTGGTATGTGAAATATTGTACATAGACCTGATGAGTTGTGGGACC
 AGATGTCATCTCTGGTACAGATTTACTTGTATATAGACTGTAAGTATGTGTGAAGTTTG
 CAAGCTTGCTTTAGGGCTGAGCCCTGGACTCCCAGCAGCAGCACAGTTCAGCATTGTGTG
 GCTGGTTGTTTCTGGCTGTCCCAGCAAGTGTAGGAGTGGTGGGCTGAACTGGGCCAT
 TGATCAGACTAAATAAATAAGCAGTTAACATAAAAAAAAAAAAAAAAAAACTCGAC

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004712 unedited
 CCTCGCGGCTCTAGGGCCGGCGCGGTGACGTGCGCGTGCAGGACTGGAGGGAAAAGGCG
 GAAGCGGAAGTCGGGGGGCGCGCCAGCTCGTAGCAGGGGAGCGCCCGCGGCTCGGGTTT
 GGGCTGGAGGTGCGCATGGGGCGAGGCAGCGGCACCTTCGAGCGTCTCCTAGACAAGGCG
 ACCAGCCAGCTCCTGTTGGAGACAGATTGGGAGTCCATTTTGCAGATCTGCGACCTGATC
 CGCCAAGGGGACACACAAGCAAAATATGCTGTGAATCCATCAAGAAGAAAGTCAACGAC
 AAGAACCACACGTGCGCTTGTATGCCCTGGAGGTCATGGAATCTGTGGTAAAGAACTGT
 GGCCAGACAGTTTATGATGAGGTGGCCAACAAGCAGACCATGGAGGAGCTGAAGGACCTG
 CTGAAGAGACAAGTGGAGGTAAACGTCCGTAACAAGATCCTGTACCTGATCCAGGCTGG
 GCGCATGCCTTCCGGAACGAGCCCAAGTACAAGGTGGTCCAGGACACCTACCAGATCATG
 AAGGTGGAGGGGCACGTCTTCCAGAAATCAAAGAGAGCGATGCCATGTTTGTGCCGAG
 AGAGCCCCAGACTGGGTGGACGCTGAGGAATGCCACCGCTGCAGGGTGCAGTTCGGGGTG
 ATGACCCGTAAGCACCCTGCCGGCGTGTGGCANATATCTGTGAAAGNGGTCTTNC
 AAGTACTTCACCATNCCCAAGTTTGGCNTTCCAAAAGGANGTGCCTGTGTNAACCC
 TGCTNANCANNTGAACNGGAAACCGAGGAAAGGCCCTT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_004712 unedited NTTTTACTCAGNACCGCGNNGCCGCAATCTANGATCGGTTTTTTTTTTTTTTTTTCTGA AAACATTTTATTATCGCTGTACCATTCTGGGGCACTGGAGATGGCAGCTGAGAAGCAGAG AAGCTGGAGACCTGAAGCCTCCACCCCTTGGCTGTGGCTGCCGAGAGAGGCCCTGCAGAG GGAGCCCCAGGCCACACCAGACACCACAGCCAGCTCACAGTCCGCCAGAGGGGCACAGG CTGCTTGGGGGGCGAGGGTCCCCATTCTGCCACCTCTCACAGACCATGACCCACAGGGC CTGGGGGCTTCCCTGGGAGAAAGTCCTTCCCTCCCATGGGCCAGCCCTGGGAAAGAA AGCCGAGACTAACCCACGGACTGCGACAGGCTGAGGACAAGGGAGGCGGGCTTGGGGTG AAGGCCGCCCTCCCGCTGAAAAGGGACGCTACCCGACGAGTCGCCAGCCCGCCGCCA TCGCCCCCTCTACCCCCCCCCCCCCACCCCCCCCCCGCACCCACATCCGCCTAC CCCCCCTCCCCAGTTAACCCACGCCCGCTCCCCCCCCGAACAAAGCCACACACA CCACCCCTCCCGCGCCCCCGCCCCGGTACGCCTCGCCCCGCTCGCCCCCTACCACC CCCGCGCCCCCCCCCCCCCCCCCGGCACCCACCTGTACCCCCCCCCACCATGAGA CCATAGCCCCCGCGCCCCCCCCGACCCCGCTCCCCCCCCACCCCCCCCCCACGC CCCCCCCCCACCCACAATTGCTCTCCCTCCCCCCCCCCCCCGTCTATAACTTCCAC CCACACCGCGCCCCCGTTCGACCCCTTCGCCCGCGCACACCCCGTAATGACTTAACTC CACCCACTCACCCGCCAGTCCCCGACGCCGAT
Restriction Sites:	NotI-NotI
ACCN:	NM_004712
Insert Size:	3220 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:	<ol style="list-style-type: none"> 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_004712.3 , NP_004703.1
RefSeq Size:	2926 bp
RefSeq ORF:	2334 bp
Locus ID:	9146
UniProt ID:	O14964
Cytogenetics:	17q25.3
Domains:	FYVE, VHS, UIM
Protein Families:	Druggable Genome

Protein Pathways: Endocytosis

Gene Summary: The protein encoded by this gene regulates endosomal sorting and plays a critical role in the recycling and degradation of membrane receptors. The encoded protein sorts monoubiquitinated membrane proteins into the multivesicular body, targeting these proteins for lysosome-dependent degradation. [provided by RefSeq, Dec 2010]