

## Product datasheet for **SC107571**

### HSPA4 (NM\_002154) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HSPA4 (NM_002154) Human Untagged Clone
Tag:	Tag Free
Symbol:	HSPA4
Synonyms:	APG-2; HEL-S-5a; HS24/P52; hsp70; hsp70RY; HSPH2; RY
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC107571 sequence for NM\_002154 edited (data generated by NextGen Sequencing)

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ATGTCGGTGGTGGGCATAGACCTGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCGGCC
GGCGGCATCGAGACTATCGCTAATGAGTATAGCGACCGCTGCACGCCGGCTTGCATTTC
TTTGGTCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGTAATTTCTAATGCA
AAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTG
GAGGCAGAAAAATCTAACCTTGCATATGATATTGTGCAGTTGCCTACAGGATTAACAGGT
ATAAAGGTGACATATATGGAGGAAGAGCGAAATTTTACCCTGAGCAAGTGACTGCCATG
CTTTTGTCCAAACTGAAGGAGACAGCCGAAAGTGTCTTAAGAAGCCTGTAGTTGACTGT
GTTGTTTCGGTTCCTTGTCTATACTGATGCAGAAAGACGATCAGTGATGGATACAACA
CAGATTGCTGGTCTTAATTGCTTGCATTAATGAATGAAACCACTGCAGTTGCTCTTGCA
TATGGAATCTATAAGCAGGATCTTCTGCCTTAGAAGAGAAACCAAGAAATGTAGTTTTT
GTAGACATGGCCACTCTGCTTATCAAGTTTCTGTATGTGCATTAATAGAGGAAAACCTG
AAAGTTCTGGCCACTGCATTTGACACGACATTGGGAGGTAGAAAATTTGATGAAGTGTA
GTAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACATTAAGTCCAAAATC
CGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTTGATGAGTGCAAA
GCTTCAGATCTCCCTTGGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAAC
ATGAATAGAGGCAAAATTTCTGGAGATGTCAATGATCTCTTAGCTAGAGTGGAGCCACCA
CTTCGTAGTGTGTTTGAACAAACCAAGTTAAAGAAAGAAGATATTTATGCAGTGGAGATA
GTTGGTGGTGTACACGAATCCCTGCGGTAAGAGAGAAGATCAGCAAATTTTTCGGTAA
GAACCTTAGTACAACATTAATGCTGATGAAGCTGCACTCGAGGCTGTGCATTGCAGTGT
GCCATCTTATCGCTGCTTTCAAAGTCAGAGAATTTTCTATCACTGATGTAGTACCATAT
CCAATATCTCTGAGATGGAATTTCCAGCTGAAGAAGGGTCAAGTGAAGTGTGAAGTCTTT
TCCAAAAATCATGCTGCTCCTTTCTCTAAAGTTCTTACATTTTATAGAAAGGAACCTTTC
ACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGATCCTGCTATAGCT
CAGTTTTCAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAGTGAAAGTC
AAAGTTGAGTAAATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTATGAGGAGTT
CACAAGTCTGAGGAAAATGAGGAGCCAATGAAACAGATCAGAATGCAAAGGAGGAAGAG
AAGATGCAAGTGGACCAGGAGGAACACATGTTGAAGAGCAACAGCAGCAGACACCAGCA
GAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATCCAAGGATAAAAAG
ATGGACCAACCACCCCAAGCCAAGAAGGCAAAAAGTGAAGACCAGTACTGTGGACCTGCCA
ATCGAGAATCAGCTATTATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAAT
GAGGGTAAAGTATCATGCAAGATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCA
GTGGAGGAATATGTGATGAAATGAGAGACAAGCTTAGTGGTGAATATGAGAAGTTTGTG
AGTGAAGATGATCGTAACAGTTTTACTTTGAAACTGGAAGATACTGAAAATTTGGTTGAT
GAGGATGGAGAAGACCAGCCAAGCAAGTTTATGTTGATAAGTTGGCTGAATTAATAAAT
CTAGGTCAACCTATTAAGATACGTTTTCCAGGAATCTGAAGAACGACCAAAATTTTAA
GAACTAGGGAACAGATCCAACAGTATATGAAAATAATCAGCTCTTTCAAAAACAAGGAG
GACCAGTATGATCATTGGATGCTGCTGACATGACAAAGGTAGAAAAAGCACAATGAA
GCAATGGAGTGGATGAATAACAAGCTAAATCTGCAGAACAAGCAGAGTTTGACCATGGAT
CCAAGTTGTCAAGTCAAAAAGATTGAAGCTAAAATTAAGGAGCTGACAAGTACTTGTAGC
CCTATAATTTCAAAGCCCAACCAAGTGAACCTCCAAAAGAGGAACAAAAAATGCA
GAGCAGAAATGGACCAGTGGATGGACAAGGAGACAACCCAGGCCCCAGGCTGCTGAGCAG
GGTACAGACACAGCTGTGCCTTCGGATTGACACAAGAAGCTTCTGAAATGGACATTGAT
TGA
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Clone variation with respect to NM\_002154.3  
475 g=>a

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002154 unedited  
 ATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCGCTACCGGCGC  
 CTCCTCTGCGGCCACTGAGCCGGAGCCGGCCTGAGCAGCGCTCTCGGTTGCAGTACCCAC  
 TGGAAGGACTTAGGCGCTCGCGTGGACACCGCAAGCCCCCAGTAGCCTCGGCCAAGAG  
 GCCTGCTTTCCACTCGCTAGCCCCGCCGGGGTCCGTGTCCTGTCTCGGTGGCCGACCC  
 GGGCCCCGAGCCGAGCAGTAGCCGGCCCATGTCGGTGGTGGGCATAGACCTGGGCTTCC  
 AGAGCTGCTACGTCGCTGTGGCCCGCCGGCGGCATCGAGACTATCGCTAATGAGTATA  
 GCGACCGCTGCACGCCGCTTGCAATTTCTTTTGGTCTAAGAATCGTTCAATTGGAGCAG  
 CAGCTAAAAGCCAGGTAATTTCTAATGCAAAGAACACAGTCCAAGGATTTAAAAGATTCC  
 ATGGCCGAGCATTCTCTGATCCATTTGTGGAGGCAGAAAAATCTAACCTTGCATATGATA  
 TTGTGCAGTTGCCTACAGGATTAACAGGTATAAAGGTGACATATATGGAGGAAGAGCGAA  
 ATTTTACCCTGAGCAAGTACTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAA  
 GTGTTCTAAGAAGCCTGTAGTTGACTGTGTTGTTTTCGGTTCCTTGTTTCTATACTGATG  
 CAGAAAGACGATCAGTGATGGATACAACACAGATTGCTGGTCTTAATTGCTTGCATAAT  
 GAATGACCCACTGCAGTTGCTCTTGATATGGAATCTNATAGCAGGATCTTCTGCCTTA  
 GAAGAGAAACCAAGAATGTAGTTTGTAGACATGGN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002154 unedited  
 TCCCATGTTCCACCCGTGCTCTGTTTCCAGGCAAAAGTTATGACCCGCGGCCGCAATCT  
 AGAGTCGAGCTTTTTTTTTTTTTTTTTGCTTTATAATAGTCTGTTTTAATAGAAACATGT  
 GTTGAATCAATCAATGTCCATTTTCCAGGAAGCTTCTTGCTGAATCCGAAGGCACAGCTG  
 TGCTGTACCCTGCTCAGCAGCCTGGGGCCTGGGTTGCTCCTTGCTCCATCCACTGGTC  
 CATTCTGCTCTGCAATTTTTTTGTTCTCTTTTGGAGGTTCCACTTTGGGTTTGGGCTTTG  
 AAATTATAGGGTACAAGTACTTGTACCTCCTAATTTTAGCTTCAATCTCTTTTGACT  
 TGACAACTGGATCCATGGTCAAACCTCTGCTTGTCTGCAGATTTAGCTTGTATTATCCATCC  
 ACTCCATTGCTTCATTTGTGCTTTTTTCTACCTTTGTCATGTCAGCAGCATCCAAATGAT  
 CATACTGGTCTCCTTGTTTTGAAAGAGCTGATTATTTTCATATACTGTTGGATCTGTT  
 TCCCTAGTTCTTCAAATAATTTTGGTCGTTCTTCCAGATTCCCTGGAAACGTATCTTAATAG  
 GTTGACCTAGATTTTTTAATTCAGCCAATTATCAACATAAACTGCTTTGGCTGGTCTT  
 CTCCATCTCATANACCAATTTTCAGTATCTTCCGTTTCAAAGTAAAAGTGTACGAT  
 CATCTTNCCTCCACAACCTTTCTATTTACCACTAAGCTTGTCTCTCTTTTCATACACATA  
 TTTCTCTCT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002154

**Insert Size:**

3000 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](mailto: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](#)

<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>	<u><a href="#">NM_002154.3</a></u> , <u><a href="#">NP_002145.3</a></u>
<b>RefSeq Size:</b>	3385 bp
<b>RefSeq ORF:</b>	2523 bp
<b>Locus ID:</b>	3308
<b>UniProt ID:</b>	<u><a href="#">P34932</a></u>
<b>Cytogenetics:</b>	5q31.1
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS
<b>Protein Pathways:</b>	Antigen processing and presentation