

Product datasheet for **SC115088**

HSPA4L (NM_014278) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | HSPA4L (NM_014278) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | HSPA4L |
| Synonyms: | APG-1; APG1; HSPH3; Osp94 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >NCBI ORF sequence for NM_014278, the custom clone sequence may differ by one or more nucleotides

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ATGTCTGTGGTTGGCATTGACCTCGGCTTCTCAACTGCTACATTGCTGTGCGGAGAAGTGGCGGCATCG
AGACCATCGCAATGAGTACAGCGACAGGTGTACCCCGCCTGTATATCATTGGGATCAAGAAGCTCGAGC
CATTGGAAATGCAGCAAAGAGCCAGATAGTACGAACGTAAAGAAATACAATTCATGGCTTCAAAAAGCTT
CATGGGCGATCATTTGATGATCCATTGTGCAAAGTAAAGGATCAGGCTTCCCTATGAAGTGCAGAAAA
TGCCATAATGGAAGTGCAGGAGTTAAGGTGCGGTAAGTACTTAGAGGAAGAGAGACCTTTTGAATTGAGCAAGT
TACTGGAATGCTGTTAGCCAAGCTTAAAGAGACTTCAGAAAAATGCTTTGAAGAAACCAGTGGCTGACTGT
GTGATTTCAATTCCTAGCTTTTTACTGATGCCGAGAGAAGATCTGTGATGGCTGCAGCCAGGTTGCAG
GCTTAAATGTTAAGGTTGATGAATGAACTACTGCAGTTGCACTGGCGTATGGAATTTATAAACAGGA
TCTTCCCCATTAGATGAGAAACCAAGAAATGTAGTATTTATTGATATGGGACATTTGCCTATCAGGTC
TTGGTTTGTGCTTTTAAACAAAGGAAAACCTAAAGTCTTGGCTACTACCTTTGATCCATATTTGGGTGGCA
GGAACCTTTGATGAGGCTTTAGTAGACTACTTCTGTGATGAGTTCAAGACCAAATATAAGATAAATGTGAA
AGAAAACCTCTCGGCGCTTGTGGCTTTATATCAGGAATGTGAAAAACTAAAGAAGCTAATGAGTGCAAAT
GCATCAGATCTTCCATTGAACATTGAGTGTTCATGAATGACCTTGATGTTTCTAGTAAATGAACAGGG
CTCAATTTGAACAACGTGTGTGCTTCCCTTTTGGCCAGGTTGAACCACCTTTAAAAGCAGTAATGGAACA
AGCTAACTTACAACGTGAAGACATTAGTAGTATAGAAATGTAGGAGGAGCAACAGAAATCCTGCAGTG
AAAGAACAATCACTAAATCTTTCTTAAAGACATAAGTACCACATTAATGCTGATGAAGCTGTTGCAA
GAGGATGTGCGTTACAGTGTGCGATTCTCTACCAGCATTTAAAGTGCCTGAATTTCCATAACAGACCT
TGTTCCCTATTCAATCACATTAAGGTGGAAGACCTCTTTTGAAGATGGAAGTGGGAAATGTGAAGTTTTC
TGTAAGAACCATCCTGCCCATTTCTCAAAAGTCATTACTTTCCACAAGAAGGAACCATTTGAAGTGAAG
CATTTTATACTAATTTACATGAAGTGCCTTATCCTGATGCAAGAATTGGGAGCTTCACTATTCAGAAATGT
TTTTCCACAGTCTGATGGTGTAGTTCCAAAGTGAAGTTAAAGTTCGTGTTAACATCCATGGAATCTTC
AGTGTGGCTAGCGCATCAGTAATTGAGAAGCAAAATTTGGAAGGCGATCACAGTGTGCTCCAATGGAGA
CAGAACTTCATTTAAAAATGAAAACAAAGATAATATGGATAAAATGCAGGTTGATCAAGAAGAAGGGCA
TCAAAAATGTCATGCTGAACACACTCCAGAAGAGGAAATGATCATACAGGAGCCAAAACAAAGTCAGCT
GTCTCAGACAAAACAGACCGATTAAATCAGACACTTAAAAAGGAAAAGTCAAAGTATTGATCTACCGA
TCCAGAGTAGCCTATGTAGACAACACTAGGCAAGATCTTCTCAACAGCTACATTGAAAATGAGGGGAAGAT
GATCATGCAAGATAAGTTAGAGAAAGAAAGAAATGATGCTAAGAATGCCGTTGAAGAATATGTATATGAT
TTTAGAGACAGGCTGGGCACTGTCTATGAAAAATTCATCACTCCAGAAGACTTGAGTAAACTGTCTGCAG
TATTGGAAGACACAGAAAATTGGCTTTATGAAGACGGAGAGGACCAACCTAAACAAGTTTATGTGGATAA
GCTTCAAGAACTAAAGAAATACGGCCAGCCTATTCAAATGAAGTACATGGAGCATGAAGAGAGACAAAA
GCCTTAAATGACTTGGGAAAAAAGATCCAACCTGTGATGAAAGTGTGATAGAAGCTTATAGAAAACAGGATG
AAAGATATGATCATCTGGATCCTACTGAAATGAAAAAGGTTGAAAAATGTATCAGTGTGCCATGAGTTG
GCTGAATAGTAAGATGAATGCACAGAACAACCTAAGTCTCACTCAAGATCCTGTGGTAAAAGTTTCAGAA
ATAGTAGCAAAGTCAAAGGAACGGATAATTTCTGTAACCCATCATTACAAGCCAAACAAAAGCAG
AAGTTCTGAAGACAAACAAAAGCTAATAGTGAACACAATGGCCAATGGATGGACAGAGTGAAGTGA
AACTAAATCAGATTCACAAAAGACAGCTCACAGCATACTAAATCCTCTGGAGAGATGGAAGTGGACTAA
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| 5' Read Nucleotide Sequence: | <p>>OriGene 5' read for NM_014278 unedited</p> <pre>TTCACCATTTCGTATACGACTTCACTATAGGTGCGGCCGCGNAATTCGGCACGAGGCGCGG TGCAGGCTGCGGCGCTGACGGCCTCTGCTCCTCCGCGGGTTCCGACTCCCTGCCTAG ATTTTCTGCTTAGCGACTTGGGGTCCCCCTCTCGTTTGCTTCTGGTAGGAGTCGCAATCCC AGCAGCAATAGCCAGAAGAGGACACGGTCCCGTACCGAAGGGTTCAGTACCAGCAGCC CGACCATCACGCGCGGGATGTCTGTGGTTGGCATTGACCTCGGCTTCTCAACTGCTAC ATTGCTGTCGCGAGAAGTGGCGGCATCGAGACCATCGCCAATGAGTACAGCGCAGGTGT ACCCCGGCTGTATATCATTGGGATCAAGAAGTTCGAGCCATTGGAAATGCAGCAAAGAGC CAGATAGTCACGAACGTAAGAAATACAATTCATGGCTTCAAAAAGCTTCATGGGCGATCA TTTGATGATCCCATTGTGCAAAGTAAAGGATCAGGCTTCCCTATGAACTGCAGAAAATG CCTAATGGAAGTGAAGAGTTAAGGTGCGGTACTTATAGGAAGAGAGACCTTTTGCAATT GAGCCAGTTACTGCAAATGCTGTAGCCAAGCTTAAAGAGACTTCAGAACATGCTTTGAA GAAACCGTGGCTGACCTGTGTGATTTCAATTCCTAGCTTTTTTACTGATGCCGAGAGAA GATCTGCGATGGCTGCAGCCAGTTGCAGGCTTAAATTCCTAACGTTGATGAATGAAAC TACTGCAGTTGCACTGCCGTATGGAATTTATCAACCAGGATCCTCCCCATTAGATGAGG AACCCCGAAATGCCGATTTATTGATATGGGACATTCTGCCTATAAGGTCTGGGTGTG CTCTAACCAAGGAAAAGTAAAGGCTTGTCTACT</pre> |
| 3' Read Nucleotide Sequence: | <p>>OriGene 3' read for NM_014278 unedited</p> <pre>ACAGCAGGGACTATAATTTAATCACACAACACTATGTAACATTCTATATTTTTGCCTGTT GATATGTAACATAGTTAAGTTTATTACAAACATTATTTCTAAGACTTATGGTATAAGTG CTCCTTTTCAAGTATTACCACTTAATAGTGTAACTACAAGGTAACATTAGGTAATC AATGATAAATGTATATAATGCAATACACTGTGCCACTTCTCCTACCCTGTGTTAAGGTA TTATTAACAAAATCAATTAAGAAAAAACAAGCAACTATTATAACTGAAACAAGGCTAT GAACATCACAGATGCATGTCTGAGTAGATAAACAGCATTTCCTTAACATGAAAGTCAT TTTGTCAGAGACTCCTGTATCTTTAGGCTAGCATTGATTTAGCAGCAGCTAGTCTCAGG ACAAGATCAAAAATTTCAAGCGAAAAGACAACGAGTACTCTGAGAAAACATCAATCCAC ATTACTAATAAAAAGAAGCAAACTGCTGGTTTACCTTAACATAAAAATTTGGGTGTGTTCCC TTTCACATGTGATTTAATTCATTTATGTGATGACAGCAAAGCTTTGGATTTCTGTGGTAC ATCAATGAGATGGACTAATTTGTTGAGAAAGCTTATTTGTTTTAATTTAAATTTGTA GCAATACAATAACTAGAAAAAGGTCAGTGCCTCTGTAGCTNTAAACCCCATCAATTNTCA TTTGTTTTTCAAAATAAAGATGCATTAATCTATGCTTCTGCAACAATAATGNCATANAG TATCCTTTNCTGAATAAGGAATTGAGGTTTATCCCAGTAGAAGCTTTAAATAAGGTAGAC TGTTGCCAACTATGTATCCATCCTGTATGTTTGATATATAAATATNCGNAAGCTANATGT CTTGTAATCTATCGGCTACACTGCTATAGCAGCATGGAATGACAGAATGCCTCATATAA ACACTTCAACTACTCAAACAATGACAAAGTGGTAAACTGACGTTGTGTGGTCCAAGT TAAAAGAC</pre> |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_014278 |
| Insert Size: | 4000 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: [NM_014278.2](#), [NP_055093.2](#)

RefSeq Size: 3284 bp

RefSeq ORF: 2520 bp

Locus ID: 22824

UniProt ID: [O95757](#)

Cytogenetics: 4q28.1

Domains: HSP70

Gene Summary: The protein encoded by this gene is heat shock inducible and may act as a chaperone. The encoded protein can protect the heat-shocked cell against the harmful effects of aggregated proteins. This gene is highly expressed in leukemia cells and may be a good target for therapeutic intervention. Several transcripts encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2015]

Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1.