

Product datasheet for **SC320158**

cvHSP (HSPB7) (NM_014424) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	cvHSP (HSPB7) (NM_014424) Human Untagged Clone
Tag:	Tag Free
Symbol:	cvHSP
Synonyms:	cvHSP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_014424.3
 CAAGGAGCCTGCACACTGATGGAGGAGGTACAGCCGTGGAGGAGAACCAGAGTCTGGAGG
 GGAGGCACAGTCTCAGGAGCCCCAGGCTGACAGGGGAAACAAAACACACAATAAACCC
 CAAACTTGCAAGTTCTGGGGCAGGCACCGAGGTCGAGTGGCAAGGAGACAGGATCCAG
 CCCTGTGACAGTGGTGAGGAGGCCCTGGGGCTGCTGTGATCGGCCTGGAATGTCAGGCTG
 TGAGCTCAGCCCTCTCGGCCTGCGTGTCTGGGCTGTCAGCAGGGCCGTTGCACGGGAGAAG
 ATTTCCAGCCCCCTCTGGCCATGGACAGGCCTAAATTTAGCTAGTAGACAAGGGGCTGG
 CCCAAGCCCAGGGACAGTCTGGCCTTATAAAGCGGCCGACGTCGGAGCCTGGCACGCTCG
 CCCAGAGGCCCTGCGCCACACCCCTCTCCTGTCCAGCCTTCGCCCCCTGGGCAGGGCCCCG
 GCGCCGTCCGTGGATGAGCCACAGAACCTTCCACCTCCGAGCGGAGAGAAGTTTCCA
 TTCCTTCTTCTTCTCCTCCTCTTCCACCTCCTCCTCGGCCTCCCGTGCCTCCCGGC
 CCAGGACCCGCCATGGAGAAGGCCCTGAGCATGTTTTCCGATGACTTTGGCAGTTCAT
 GCGGCCCACTCGGAGCCCTGGCCTTCCAGCCCGCCCGTGGGGCAGGCAACATCAA
 GACCCTAGGAGACGCCTATGAGTTTGGGTGGACGTGAGAGACTTCTCACCTGAAGACAT
 CATTGTACCACCTCCAACAACCACATCGAGGTGCGGGCTGAGAAGCTGGCGGCTGACGG
 CACCGTCATGAACACCTTCGCTCACAAGTGCCAGCTGCCGGAGGACGTGGACCCGACGTC
 GGTGACCTCGGCTCTGCGGGAGGACGGCAGCCTACTATCCGGGCACGGGCTCACCCGCA
 TACAGAACACGTCCAGCAGACCTTCCGGACGGAGATCAAATCTGAGTGCCTCTCCCTTC
 CCTTCCCTGTCCCCCGCCCCACGCCTGCCAGCAAAGCCTCGTAACCCATTACAACA
 GCTCCAGGACATCTCAGCCCAGTTCTAGCCCCACGCACCCAGACCCAGGTGGACCA
 TCCTCCAAACTAGGGCCCTCCACTCTATCCAGGGCAGGCCAGGGACTCCCTGGCCTGAC
 ACATGATGCCAGATTTAGATTTGGCCTCCGTCACTTAATCCAGAGTACAGGGGCTGGG
 GTCAGGGAAGGAAGATCTAAGAACCCTGTGGGTGAGGGGAATGGGACCAGCAGGACA
 TATGGGCAAGCTCTGCAGGACAGACAGGACAGACAACCCTCTGATCTATGAAGTCTCTGC
 AGGGCAAGGGGACCAGGGACCTGGAACCCTTGGCCAAGGGGAGTGGGAACGACAGAGG
 GAAGGTACAGGCAAGGGTGCCTATCTAAGTGGAACTAATTGCCCGAGGGCTCAGCAAGG
 CCAAGAGGAGACAGCCGTGACGGTAAACTTCCCTCTACCAGCCTCAAGCCCCACGCCA
 GCGAGCAGGCTGCCTGCCACCCCGTCCCCCAGCCAGCTGGCTGTGCCAGGGCAGAGCC
 ATGCCACATCTGTATATAGATGGGGTTTTTCCAATACAGCTGGTTCGTGATAAACTGCAT
 GAAACTCTGCCGCTCTGCGCCTGCTGGGGCTCCAGGCAAGGCCACGTGGGGTTGGGG
 TGGGGCTGGTCTCTCCCTCCACAGGCCTGTGTTCTTGGGGCTGCTCCCATGCAGACA
 GGATCACCTAACAGAGATGGAAGCCAGGGCATGGATGGGGCTTTGGGTCTCGAGTTGG
 ACCCCAGCTTCTTGCACCTTCCCTCCGGGCAGTCAGCTCTCCATCCATCCCCCTCTTT
 AATCTATGAATCTATAGGCTCGGTGTGTGTAACACACACACCCCTATCGTTGTCTTCAA
 ATACTCAGCATTACCATTTGGTTGAGGCCAAATTCAGAGCTTTCTCAAATCAGATTTACAA
 TCTCCATTTTCATTAACGGGGAACATCCCCGAGCCACTGAGTGTCTGTGCTTTGTCACTG
 AAGGTTAGATCTGAACCCAGGGTGTCAACAGCTGCTCTCAACTCCCACCTCTGGGCACT
 GAGGAGTATTTCCCTCATTCTACCTCTAAGGCTATGCACCCCTCCCCACGCTTCCA
 GCTGGGGGATGGGGGAGTCATAGGAAAAGCCCCATCTCCATCTGGGATAGGGACCTT
 CCATCAGCCTTAACCCTGGGAAATGCCTGCTGCCCCAGTGACTTTGGTTTCGTCTCCC
 ACATACAGAAGCAGGGTGGAGGGGAAGGGTGGGTCTCAGTTAGCAGGGGTCCCCAGGGCA
 AGTCAGCCTCCTCCCTCCATGCCTCTCTGGTCAGTGTGCCTTAGGGTGGCCTCTCACTCC
 CACCACCTGGGCCCTTGGGGGAGGACTGGGGAGGGGGCCGTGGGAGAGCCCTGACGCT
 GGAACCTGTATACACAATAAAGGACAGTCTCACAGAAAAAAAAAAAAAAAAAAAAAAAAA
 AAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_014424

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_014424.3</u> , <u>NP_055239.1</u>
RefSeq Size:	2589 bp
RefSeq ORF:	513 bp
Locus ID:	27129
UniProt ID:	<u>Q9UBY9</u>
Cytogenetics:	1p36.13
Gene Summary:	<p>This gene encodes a small heat shock family B member that can heterodimerize with similar heat shock proteins. Defects in this gene are associated with advanced heart failure. In addition, the encoded protein may be a tumor suppressor in the p53 pathway, with defects in this gene being associated with renal cell carcinoma. [provided by RefSeq, Mar 2017]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) has a shorter and distinct N-terminus compared to isoform 1.</p>