

## Product datasheet for **SC122690**

### **HAND1 (NM\_004821) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	HAND1 (NM_004821) Human Untagged Clone
Tag:	Tag Free
Symbol:	HAND1
Synonyms:	bHLHa27; eHand; Hxt; Thing1
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >OriGene sequence for NM\_004821 edited  
 GTCCGCAGAAGGGTTAAACAGGTCTTTGGGCTTCGGCGACCTCGCCCGCGGCAGAAACCG  
 GTAAGAAGACAGTGGGCTGCGCGTCTCATTTTCAGCCTTGCCCGGACTCTCCAAAGCCG  
 GCGCCAGTAGTGGCTCCAGAGCCACAGGTGGCCCCGGCAGTCTTGGGGCGCATGGA  
 GCGGCGTTAATAGGGCTGGCGGCGCAGGCCAGTAGCCGCTCCAACATGAACCTCGTGGGC  
 AGCTACGCACACCATCACCACCATCACCACCCGCACCTGCGCACCCCATGCTCCACGAA  
 CCCTTCCTCTTCGGTCCGGCTCGCGCTGCATCAGAAAGGCCCTACTTCCAGAGCTGG  
 CTGCTGAGCCCGGCTGACGCTGCCCGGACTTCCCTGCGGGCGGGCCGCCGCCCGCGCC  
 GCTGCAGCCGCCACCGCTATGGTCTGACGCCAGGCCTGGGCAGAGCCCGGGCGGCTG  
 GAGGCGCTTGGCGGCGTCTTGGCCGGCGAAAGGCTCAGGACCAAGAAGGAGCGGAGA  
 CGCACTGAGAGCATTAACAGCGATTTCGCGGAGTTGCGGAGTGCATCCCCAACGTGCCG  
 GCCGACACCAAGCTCTCCAAGATCAAGACTCTGCGCTAGCCACCAGCTACATCGCTAC  
 CTGATGGAGCTGTGGCCAAGGATGCACAGTCTGGCGATCCCAGGCCTTCAAGGCTGAA  
 CTCAAGAAGGCGGATGGCGGCCGTGAGAGCAAGCGGAAAAGGGAGCTGCAGCAGCACGAA  
 GGTTTTCTCCTGCCCTGGGCCAGTCGAGAAGAGGATTAAGGACGCACCGGCTGGCCG  
 CAGCAAGTCTGGGCGCTGGAGTTAAACAGTGAAGCCGAGCCCGCGCCGAGGACCTGGCC  
 AGGCCAGCCACTCCTGAAGCCCCGGGAGGAGAGGAAGGCAGCGGCGAACGCCAGGCTCTG  
 GGCTCCGGCGACTGGTGCTACGCATCCCAGGAGCTTCTGCTGAGCGCCGGCAGGTCTGTC  
 GGCTGCAACCACACACTTGGATCGCACGTGCAATGTCCTTTGATTTTTTTAATACATTA  
 AGAGAAAGAGAAATATATATATATACACCCCAAGCCCAACCGAGGGCGGCCCTTGGCGGC  
 AACATGCAAGAAGGAGGGACTGTGAACCAAGGGCTCAAAGACGCACTTCCACCCCTT  
 TTGGAGCGAATTTAGAACCTCAGCCCTATCTCCATTTCCCTATCTGGCTCTTTCTCTCT  
 TTCCCTCATATGATCCGCCCGACGCGCTTCTCTAATTAATAAATGCAATAAGGAATCA  
 ATTCTTTTCTGCCTGAGAAAGAGAACCAGACGCAGGAAGATGAAAGGCTGCCCTTTGTTC  
 TTCGAATCGTGGTGGTTTTATTTTATTTTCTTTTGTGCTGCACCTTCTGTTTGTTC  
 CAAGGGAAACACTTTCTCTTTCTCTGCTCTCTCTTTTCTTCTTTCTTTCTTCTTCTT  
 TTTGTTTCTATCTAAATAAAAGCTTTCCCTGTGTGGAAAGTTTTTATGATTTAAACTA  
 CCTACCATGCCTGTTGTGCTCAGGTGTTGTTTCATCTGCCATCCCCAACCCCTTTCTAC  
 CTCAAGTCTGTGACCCTCACAGCCCCCTCCCTTCGCCAAAGCAGTGTCTATGCTCT  
 TGATTAATAAAACATTTTCTGAAATCAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_004821 unedited  
 NNAAGTTGAATTTGTATACGACTCATATAGGCGGGCCCGGAATTCGCACGAGGGTCCGC  
 AGAAGGGTTAAACAGGTCTTTGGGCTTCGGCGACCTCGCCCGCGGCAGAAACCGGTAAGA  
 AGACAGTGGGCTGCGCGTCTCATTTTCAGCCTTGCCCGGACTCTCCAAAGCCGGCGCCC  
 AGTAGTGGCTCCAGAGCCACAGGTGGCCCCGGCAGTCTTGGGGCGCATGGAGCGGCG  
 TTAATAGGGCTGGCGGCGCAGGCCAGTAGCCGCTCCAACATGAACCTCGTGGGCAGCTAC  
 GCACACCATCACCACCATCACCACCCGCACCCTGCGCACCCCATGCTCCACGAACCCCTC  
 CTCTTCGGTCCGGCTCGCGTGCATCAGGAAAGGCCCTACTTCCAGAGCTGGCTGCTG  
 AGCCCGGCTGACGCTGCCCGGACTTCCCTGCGGGCGGGCCGCCCGCCGGCCGCTGCA  
 GCGCCACCGCCTATGGTCTGACGCCAGGCCTGGGCAGAGCCCGGGCGGCTGGAGGCG  
 CTTGGCGGCGTCTTGGCCGGCGAAAGGCTCAGGACCAAGAAGGAGCGGAGACGCACT  
 GAGAGCATTAACAGCGCATTTCGCGGAGTTGCGGAGTGCATCCCCAACGTGCCGGCCGAC  
 ACCAAGCTCTCCAAGATCAAGACTCTGCGCTAGCCACCAGCTACATCGCTACCTGATG  
 GACGTGTGGCCAAGGATGCACAGTCTGGCGATCCCNAGCCTTCAAGGCTGAACTCAAN  
 AAAGCNGATGGCGGCGTGGAGCAGCCGAAAAGGAGTGCAGCAGCACGAAGGGTTTC  
 CTCCTGCCCTGNGGCCCGAGTCGAGAAGAGGATTAAGGACCCACCGGCTGGCCGCA

**Restriction Sites:** Please inquire

**ACCN:** NM\_004821

**Insert Size:** 1733 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>RefSeq:</b>	<a href="#">NM_004821.1</a> , <a href="#">NP_004812.1</a>
<b>RefSeq Size:</b>	1750 bp
<b>RefSeq ORF:</b>	648 bp
<b>Locus ID:</b>	9421
<b>UniProt ID:</b>	<a href="#">O96004</a>
<b>Protein Families:</b>	Druggable Genome, ES Cell Differentiation/IPS, Transcription Factors
<b>Gene Summary:</b>	The protein encoded by this gene belongs to the basic helix-loop-helix family of transcription factors. This gene product is one of two closely related family members, the HAND proteins, which are asymmetrically expressed in the developing ventricular chambers and play an essential role in cardiac morphogenesis. Working in a complementary fashion, they function in the formation of the right ventricle and aortic arch arteries, implicating them as mediators of congenital heart disease. In addition, it has been suggested that this transcription factor may be required for early trophoblast differentiation. [provided by RefSeq, Jul 2008]