

## Recombinant Human HAND1, GST-tagged

Cat. No. HAND1-13662H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human HAND1 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 1-215a.a.

**Description** 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.

**Storage** The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.

**Storage Buffer** 1M PBS (58mM Na<sub>2</sub>HPO<sub>4</sub>, 17mM NaH<sub>2</sub>PO<sub>4</sub>, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

### GENE INFORMATION

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



<b>Gene Name</b>	HAND1 heart and neural crest derivatives expressed 1 [ Homo sapiens ]
<b>Official Symbol</b>	HAND1
<b>Synonyms</b>	HAND1; heart and neural crest derivatives expressed 1; heart- and neural crest derivatives-expressed protein 1; bHLHa27; eHand; Hxt; Thing1; class A basic helix-loop-helix protein 27; extraembryonic tissues, heart, autonomic nervous system and neural crest derivatives-expressed protein 1;
<b>Gene ID</b>	9421
<b>mRNA Refseq</b>	NM_004821
<b>Protein Refseq</b>	NP_004812
<b>MIM</b>	602406
<b>UniProt ID</b>	O96004
<b>Chromosome Location</b>	5q33
<b>Pathway</b>	Heart Development, organism-specific biosystem;
<b>Function</b>	bHLH transcription factor binding; enzyme binding; identical protein binding; contributes_to protein binding; protein heterodimerization activity; protein homodimerization activity; sequence-specific DNA binding; transcription coactivator activity; transc

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