

## Product datasheet for SC301216

### HCST (NM\_001007469) Human Untagged Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: HCST (NM\_001007469) Human Untagged Clone  
 Tag: Tag Free  
 Symbol: HCST  
 Synonyms: DAP10; KAP10; PIK3AP  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 Fully Sequenced ORF: >SC301216 representing NM\_001007469.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

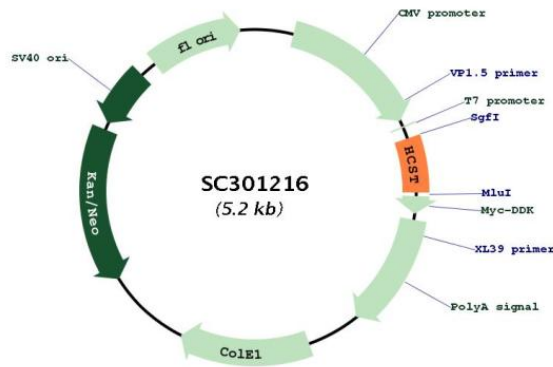
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCCATCTGGGTCACATCCTCTTCTGCTTTTGTCCAGTGGCTGCAGCTCAGACGACTCCAGGA
GAGAGATCACTACTCCCTGCCTTTTACCCTGGCACTTCAGGCTCTTGTCCGGATGTGGTCCCTCTCT
CTGCCGCTCCTGGCAGGCCTCGTGGCTGCTGATGCGGTGGCATCGCTGCTCATCGTGGGGCGGTGTTT
CTGTGCGCACGCCACGCCGAGCCCGCCCAAGATGGCAAAGTCTACATCAACATGCCAGGCAGGGGC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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Plasmid Map:



ACCN: NM\_001007469

Insert Size: 279 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).

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).

<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>NM_001007469.1</u>
<b>RefSeq Size:</b>	521 bp
<b>RefSeq ORF:</b>	279 bp
<b>Locus ID:</b>	10870
<b>UniProt ID:</b>	<u>Q9UBK5</u>
<b>Cytogenetics:</b>	19q13.12
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Protein Pathways:</b>	Natural killer cell mediated cytotoxicity
<b>MW:</b>	9.4 kDa
<b>Gene Summary:</b>	<p>This gene encodes a transmembrane signaling adaptor that contains a YxxM motif in its cytoplasmic domain. The encoded protein may form part of the immune recognition receptor complex with the C-type lectin-like receptor NKG2D. As part of this receptor complex, this protein may activate phosphatidylinositol 3-kinase dependent signaling pathways through its intracytoplasmic YxxM motif. This receptor complex may have a role in cell survival and proliferation by activation of NK and T cell responses. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 3' coding region, compared to variant 1, resulting in a shorter protein (isoform 2).</p>