

Product datasheet for **RG208290**

HCST (NM_014266) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HCST (NM_014266) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: HCST
Synonyms: DAP10; KAP10; PIK3AP
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208290 representing NM_014266
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGATCCATCTGGGTCACATCCTCTTCTGCTTTTGCTCCCAGTGGCTGCAGCTCAGACGACTCCAGGAG
 AGAGATCATCACTCCCTGCCTTTACCCTGGCACTTCAGGCTCTGTCCGGATGTGGTCCCTCTCT
 GCCGCTCTGGCAGGCCTCGTGGCTGCTGATGCGGTGGCATCGCTGCTCATCGTGGGGCGGTGTTCTG
 TCGCACGCCACGCCGAGCCCGCCCAAGAAGATGGCAAAGTCTACATCAACATGCCAGGCAGGGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG208290 representing NM_014266
 Red=Cloning site Green=Tags(s)
 MIHLGHILFLLLLPVAAAQTTPGERSSLPAYPGTSGSCSGCSLSLPLLAGLVAADAVASLLIVGAVFL
 CARPRRSPAQEDGKVYINMPGRG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_014266

ORF Size: 279 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

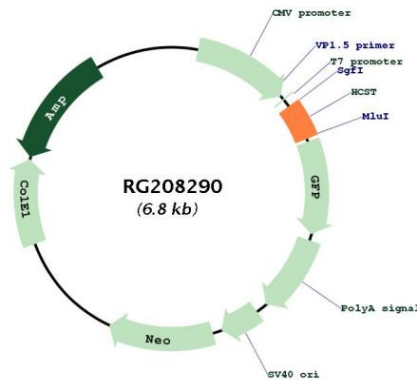
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_014266.4](#)

RefSeq Size: 524 bp

RefSeq ORF:	282 bp
Locus ID:	10870
UniProt ID:	<u>Q9UBK5</u>
Cytogenetics:	19q13.12
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Natural killer cell mediated cytotoxicity
Gene Summary:	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]

Product images:



Circular map for RG208290