

Product datasheet for **RC207743**

AHSP (NM_016633) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: AHSP (NM_016633) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: AHSP
Synonyms: EDRF; ERAF
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207743 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCTTCTTAAGGCCAATAAGGATCTCATTCCGCAGGATTGAAGGAGTTCAGCGTTCTGCTGAATC
AGCAGGTCTTCAATGATCCTCTCGTCTCTGAAGAAGACATGGTGACTGTGGTGGAGGACTGGATGAACCT
CTACATCAACTATTACAGGCAGCAGGTGACAGGGGAGCCCAAGAGCGAGACAAGGCTCTGCAGGAGCTT
CGGCAAGAGCTGAACACTCTGGCCAACCCTTTCCTGGCCAAGTACAGGGACTTCTGAAGTCTCATGAGC
TCCCGAGTCACCCACCGCCCTCTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207743 protein sequence
Red=Cloning site Green=Tags(s)
MALLKANKDLISAGLKEFSVLLNQVFNDPLVSEEDMVTVVEDWMNFYINYRQQVTGEPQERDKALQEL
RQELNTLANPFLAKYRDFLKSHELPSHPPSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6338_a11.zip

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_016633

ORF Size: 306 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_016633.4](#)

RefSeq Size: 518 bp

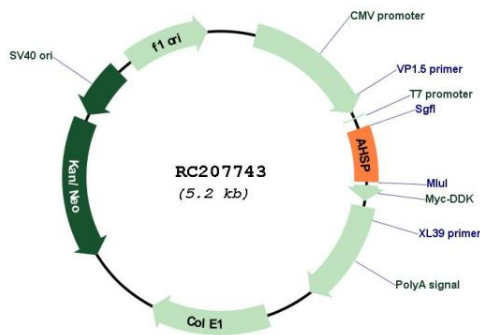
RefSeq ORF: 309 bp

Locus ID: 51327

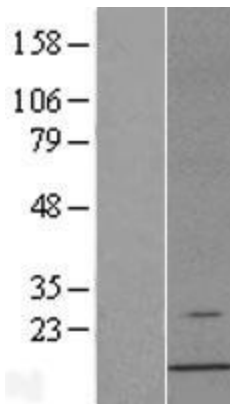
UniProt ID: [Q9NZD4](#)
 Cytogenetics: 16p11.2
 MW: 11.8 kDa

Gene Summary: This gene encodes a molecular chaperone which binds specifically to free alpha-globin and is involved in hemoglobin assembly. The encoded protein binds to monomeric alpha-globin until it has been transferred to beta-globin to form a heterodimer, which in turn binds to another heterodimer to form the stable tetrameric hemoglobin. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2015]

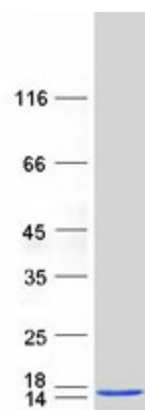
Product images:



Circular map for RC207743



Western blot validation of overexpression lysate (Cat# [LY413883]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207743 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AHSP protein (Cat# [TP307743]). The protein was produced from HEK293T cells transfected with AHSP cDNA clone (Cat# RC207743) using MegaTran 2.0 (Cat# [TT210002]).