

Product datasheet for **RC203107**

HRSP12 (RIDA) (NM_005836) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: HRSP12 (RIDA) (NM_005836) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: HRSP12
Synonyms: hp14.5; HRSP12; P14.5; PSP; UK114
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203107 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGTCCTTGATCAGAAGGGTGATCAGCACCGCAAAGCCCCAGGGGCCATTGGACCCTACAGTCAAG
CTGTATTAGTCGACAGGACCATTACATTTTCAGGACAGATAGGCATGGACCCTTCAAGTGGACAGCTTGT
GTCAGGAGGGGTAGCAGAAGAAGCTAAACAAGCTCTTAAAAACATGGGTGAAATTCTGAAAGCTGCAGGC
TGTGACTTCACTAACGTGGTAAAACAACTGTTCTTCTGGCTGACATAAATGACTTCAACTGTCAATG
AAATCTACAAACAGTATTTCAAGAGTAATTTTCCTGCTAGAGCTGCTTACCAAGTTGCTGCTTTACCCAA
AGGCAGCCGAATTGAAATTGAAGCAGTAGCTATCCAAGGACCACTGACAACGGCATCACTA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203107 protein sequence
Red=Cloning site Green=Tags(s)

MSSLIRRVISTAKAPGAIGPYSQAVLVDRTIYISGQIGMDPSSGQLVSGGVAEEAKQALKNMGEILKAAG
CDFTNVVKTTVLLADINDFNTVNEIYKQYFKSNFPARAAYQVAALPKGSRIEIEAVAIQGPLTTASL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6435_c11.zip

Restriction Sites: Sgfl-Mlul



[View online »](#)

Cloning Scheme:


ACCN: NM_005836

ORF Size: 411 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_005836.3](#)

RefSeq Size: 1011 bp

RefSeq ORF: 414 bp

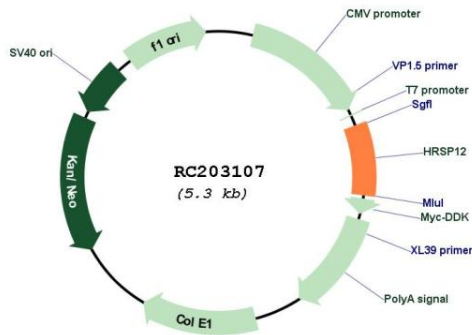
Locus ID: 10247

UniProt ID: [P52758](#)

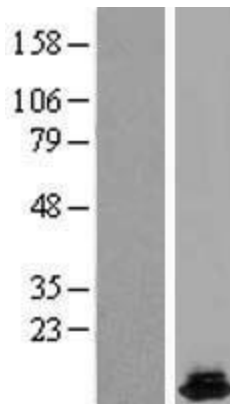
Cytogenetics: 8q22.2
Domains: ribonuc_L-PSP
MW: 14.5 kDa

Gene Summary: Catalyzes the hydrolytic deamination of enamine/imine intermediates that form during the course of normal metabolism. May facilitate the release of ammonia from these potentially toxic reactive metabolites, reducing their impact on cellular components. It may act on enamine/imine intermediates formed by several types of pyridoxal-5'-phosphate-dependent dehydratases including L-threonine dehydratase.[UniProtKB/Swiss-Prot Function]

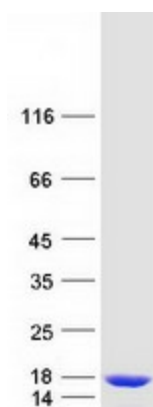
Product images:



Circular map for RC203107



Western blot validation of overexpression lysate (Cat# [LY417023]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203107 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RIDA protein (Cat# [TP303107]). The protein was produced from HEK293T cells transfected with RIDA cDNA clone (Cat# RC203107) using MegaTran 2.0 (Cat# [TT210002]).