

Product datasheet for RC200036

HSPC152 (TRMT112) (NM_016404) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HSPC152 (TRMT112) (NM_016404) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HSPC152
Synonyms:	HSPC152; HSPC170; hTrm112; TRM112; TRMT11-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC200036 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGGATCGCC

ATGAAACTGCTTACCCACAATCTGCTGAGCTCGCATGTGCGGGGGTGGGGTCCCCTGGCTTCCCCTGC
GCCTCCAGGCCACCGAGGTCCGTATCTGCCCTGTGGAATCAACCCCACTTCGTGGCGGTATGATACC
TAAAGTGGAGTGGTCGGCGTTCCTGGAGCGGCCGATAACTTGCCTGTATCCAGGTGCCGAAAGGGCCG
GTTGAGGGATATGAGGAGAATGAGGAGTTTCTGAGGACCATGCACCACCTGCTGCTGGAGGTGGAAGTGA
TAGAGGGCACCTGCAGTGCCCGAATCTGGACGTATGTTCCCATCAGCCGCGGGATCCCCAACATGCT
GCTGAGTGAAGAGGAACTGAGAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>RC200036 protein sequence Red=Cloning site Green=Tags(s)
Chromatograms:	https://cdn.origene.com/chromatograms/mk6418_e12.zip
Restriction Sites:	SgfI-MluI

MKLLTHNLLSSHVRGVGSRGFPLRLQATEVRIQVFNPNFVARMIPKVEWSAFLEAADNLRLLIQVPKGP
VEGYEENEFLRMTMHLLLEVEVIEGLQCPESGRMFPIISRGIPNMLLSEETES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



[View online »](#)

Cloning Scheme:


ACCN: NM_016404

ORF Size: 375 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_016404.3](#)

RefSeq Size: 1305 bp

RefSeq ORF: 378 bp

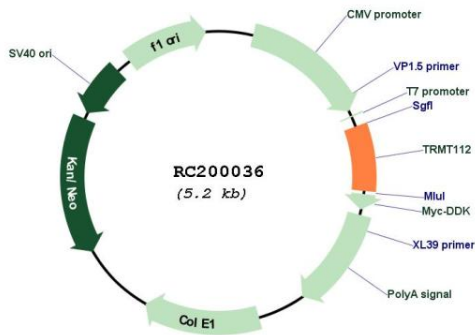
Locus ID: 51504

UniProt ID: [Q9UI30](#)

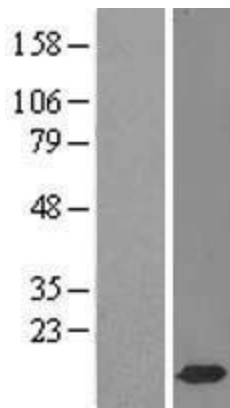
Cytogenetics: 11q13.1
Domains: DUF343
MW: 14.2 kDa

Gene Summary: Acts as an activator of both rRNA/tRNA and protein methyltransferases (PubMed:25851604). Together with methyltransferase BUD23, methylates the N(7) position of a guanine in 18S rRNA (PubMed:25851604). The heterodimer with HEMK2/N6AMT1 catalyzes N5-methylation of ETF1 on 'Gln-185', using S-adenosyl L-methionine as methyl donor (PubMed:18539146). The heterodimer with ALKBH8 catalyzes the methylation of 5-carboxymethyl uridine to 5-methylcarboxymethyl uridine at the wobble position of the anticodon loop in target tRNA species (PubMed:20308323). Involved in the pre-rRNA processing steps leading to small-subunit rRNA production (PubMed:25851604).[UniProtKB/Swiss-Prot Function]

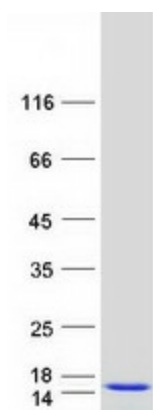
Product images:



Circular map for RC200036



Western blot validation of overexpression lysate (Cat# [LY414001]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200036 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified TRMT112 protein (Cat# [TP300036]). The protein was produced from HEK293T cells transfected with TRMT112 cDNA clone (Cat# RC200036) using MegaTran 2.0 (Cat# [TT210002]).