

Product datasheet for SC114288

HSPC152 (TRMT112) (NM_016404) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: HSPC152 (TRMT112) (NM_016404) Human Untagged Clone
Tag: Tag Free
Symbol: HSPC152
Synonyms: HSPC152; HSPC170; hTrm112; TRM112; TRMT11-2
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF sequence for NM_016404 edited
 ATGAAACTGCTTACCCACAATCTGCTGAGCTCGCATGTGCGGGGGTGGGGTCCCGTGGC
 TTCCCCCTGCGCCTCCAGGCCACCGAGGTCCGTATCTGCCCTGTGGAATCAACCCCAAC
 TTCGTGGCGCGTATGATACCTAAAGTGGAGTGGTTCGGCGTTCCTGGAGGCGGCCGATAAC
 TTGCGTCTGATCCAGGTGCCGAAAGGGCCGGTTGAGGGATATGAGGAGAATGAGGAGTTT
 CTGAGGACCATGCACCACCTGCTGCTGGAGGTGGAAGTATAGAGGGCACCCCTGCAGTGC
 CCGGAATCTGGACGTATGTTCCCATCAGCCGCGGGATCCCCAACATGCTGCTGAGTGAA
 GAGGAACTGAGAGTTGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_016404 unedited
 GATTTTGAATACGACTCACTATAGGGCGCNCGCGATTTCGCACAGGGCGACATGAAA
 CTGCTTACCCACAATCTGCTGAGCTCGCATGTGCGGGGGTGGGGTCCCGTGGCTCCCC
 CTGCGCCTCCAGGCCACCGAGGTCCGTATCTGCCCTGTGGAATCAACCCCAACTTCGTG
 GCGCGTATGATACCTAAAGTGGAGTGGTTCGGCGTTCCTGGAGGCGGCCGATAACTGCGT
 CTGATCCAGGTGCCGAAAGGGCCGGTTGAGGGATATGAGGAGAATGAGGAGTTTCTGAGG
 ACCATGCACCACCTGCTGCTGGAGGTGGAAGTATAGAGGGCACCCCTGCAGTGCCCGGAA
 TCTGGACGTATGTTCCCATCAGCCGCGGGATCCCCAACATGCTGCTGAGTGAAGAGGAA
 ACTGAGAGTTGATTGTGCCAGGGCCAGTTTTTCTTGTATGACTGTGTATTTTTGTTGA
 TCTATACCCTGTTCCGAATTCTGCCGTGTATCCCCAACCCCTTGACCCAATGACACCA
 AACACAGTNGTTTTGAGCTCGGTATTATNATATNTTTTTCTCATTAAAGGTTTAAAACC
 AAAAAAAAAAAAAAAAAACTCGACTCTAGATTGCGGCCCGCGGCATATAGCTGTTTCTG
 AACAGATCCCCGGGTGGCATCCCTTGTGACCCCTCCCCAGTGCCTCTCCTGGCCCTGGG
 GAAAGTTGCCACCTCCAGTGCCCCACCAGCCTTGTCTAATAAAAATTAAGTTGCTTCAT
 TTTGCTGACCTAGTGTCTTTATAATTATGGGGGGGGGGGGCGGGGGGGGGACACACC
 CAAACCACAAAACTGACAAGGAACAAACCCACCGAGACGCCCTCGCGGAACATCTTG
 AAAACC



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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_016404 unedited CGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTTTTGGGGTTAAACCTTTAATG AGAAAAAATATATAATACCGAGCTCAAAAACACTGTGTTGGTGTCAATTGGGTCAAGGG TTGGGGATACACACGGCAGAATTCGAAACAGGGTATAGATCAACAAAAATACACAGTCA TAACAAGAAAACTGGCGCTGGCACAATCAACTCTCAGTTTCCTCTTCACTCAGCAGCA TGTTGGGGATCCCGCGGCTGATGGGGAACATACGTCCAGATCCGGGCACTGCAGGGTGC CCTCTATCACTTCCACCTCCAGCAGAGTGGTGCATGGTCCTCAGAACTCCTCATTCT CCTCATATCCCTCAACCGCCCTTTCGGCACCTGGATCAGACGCAAGTTATCGGCCGCT CCAGGAACGCGGACCACTCCACTTTAGGTATCATACGCGCCACGAAGTTGGGGTTGAATT CCACAGGGCAGATACGGACCTCGGTGGCCTGGAGGCGCAGGGGGAAGCCACCGGACCCCA CCCCCGCACATGCGAGCTCAGCAGATTGTGGTAAGCAGGTTTCATGTCGCCCTCGTGCC GAATTCGCGGCCGCCCTATAGTGAGTCGTATTACAAAATCTGACGGTTCACTAAACGAG CTCTGCTAAATAGACCTNCCAACCGACACCCCTACCGCCCTTGGGTACAGGGGCGGGC TTTTTCCACCTTTTGGAAAGACCGTCGATTTTGGGGCCAAACAATCCCCTTGTACCT AATGGGGGGGAGACTTGCACATCCCCGGGGCCAACCGGTTCCACGCCCTTGGTGG CCTGCCAAACCTCATACACCGGTATATCCACTCCAATCCTCTCATCCCCTTACACAG AAAAACCTAACGGCCCGCTCGTGCTTAGGCACGCGGGCCTTTTCCCAACATCC
Restriction Sites:	NotI-NotI
ACCN:	NM_016404
Insert Size:	620 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).
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:	<ol style="list-style-type: none"> 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_016404.1 , NP_057488.1
RefSeq Size:	612 bp
RefSeq ORF:	378 bp
Locus ID:	51504
UniProt ID:	Q9UI30
Cytogenetics:	11q13.1
Domains:	DUF343

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]

Transcript Variant: This variant (1) encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.