

## Product datasheet for **RG221181**

### HTF9C (TRMT2A) (NM\_022727) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HTF9C (TRMT2A) (NM_022727) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HTF9C
Synonyms:	HTF9C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG221181 representing NM\_022727  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGTGAGAACCTCGACAACGAGGGCCGAAGCCCATGGAGAGCTGTGGCCAGGAGAGCAGCAGTGCC  
 TGAGCTGCCCTACCGTCTCGGTGCCCTGCAGCCCCGGCAGCCCTGGAGGAGGTGGAGAAAAGGGGCGC  
 TGGGGCGGCTACAGGGCCGGGGCTCAGCCCGGCTCTACAGCTACATCAGGGATGACTTGTTTACCTCT  
 GAGATCTTTAAACTGGAGCTGCAGAACGTGCCTCGCCACGCCAGCTTCAGCGACGTCGCGCCTTCTG  
 GCCGCTTTGGTCTGCAGCCCCACAAAACAACTTTGGGAACCACCCTGCGCCTTTGTGACATTCCG  
 CAGCGCTGCAGAGAGGGACAAGGCCCTGCGCGTTTTGCATGGTGCCTCTGAAAAGGCCGCCACTCAGT  
 GTGCGCTGGCCCGCCAAAGGCCGACCCATGGCCAGGAGGAGGCGACAGGAGGTGAGAGTGAGCCAC  
 CAGTAACACGAGTGGCCGACGTGGTACCCCTCTATGGACAGTGCCTATGCTGAGCAGCTTGAGCGGAA  
 GCAGCTGGAGTGGAGCAGGTGCTGCAGAACTTGCCAAGGAAATCGGGAGCACCAACCGTGCCTTGCTG  
 CCCTGGCTGCTCGAGCAGAGGCACAAGCACAACAAGGCCCTGCTGCCCGCTGGAGGGGGTCAGGCCATCAC  
 CCCAGCAGACTGAGTATCGTAATAAGTGTGAGTTTCTGGTTGGCGTCGGGTGGATGGGGAGGATAACAC  
 CGTGGGCTGTGGCTCGGCAAGTACAAGGGCGGGACGTGTGCTGTGGCAGCCCCGTTTGACACCGTGAC  
 ATCCCCGAAGCCACCAAGCAGGTGGTGAAGGCCTTCCAGGAGTTCATCCGGTCCACTCCATACTCGGCAT  
 ACGACCCAGAGACGTACACAGGCCACTGGAAGCAGCTGACTGTGCGCACCAGCCCGCCACCAGGCCAT  
 GGCCATTGCCACTTCCACCCCAAGCTGAGCCCTGAGGAGCTGGCAGAGCTGAAGACCTCCCTAGCG  
 CAGCAGCTTACAGCAGGGCCAGGCAGGCGCAGTGGAGTGCCTGCCTCTACTTCGTGGAGGAGGGACAGC  
 GAAAGACTCCTAGCCAGGAGGGCTGCCCTGGAGCATGTGGCTGGGGACCGGTGCATCCACGAGGACCT  
 GCTAGGGCTGACCTTCCGGATCTCTCCACACGCCCTTCTCCAGGTGAACACACCCCGAGCCGAGGTGCTC  
 TACACAGTCATCCAGGACTGGGCCAAATTGGATGCGGGGAGCATGGTGTGGACGTGTGCTGTGGCACC  
 GCACCATTTGGCTGGCCCTGGCCCGGAAGGTAAGAGGGTCATTGGGGTCGAGCTATGCCAGAGGCTGT  
 GGAGGACGCCCGGTGAACGCCAGGACAATGAGTTGAGTAATGTGGAGTCCACTGCGGGAGGGCCGAG  
 GACCTGGTGGCCACCCTGGTGGCAGACTGGCCTCCCAGCACCTCGTGGCCATCCTGGACCCACCCCGT  
 CTGGCTTGCATTCAAGGTGATCCTGGCCATCCGGAGAGCTAAGAACCTCAGGCGGCTGCTGTACGTCTC  
 ATGCAACCCCGGGCAGCCATGGGCACTTTGTGGACCTCTGCAGAGCCCATCTAACCGGTGAAGGGC  
 ATTCCTTCCGGCCGGTCAAGGCTGTGGCAGTGGACCTGTCCCAGACCCCGACTGTGAGATGCTCA  
 TCCTGTTTGGAGGGTGGAGCACCCCAATGGCACAGGGGTCTTGGGGCCACAGCCCTCCAGCTCAACC  
 CACACCAGGACCCCAAGATAACACCCCTACAAGAACTGGGACCTTCCCCTCATCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG221181 representing NM\_022727  
 Red=Cloning site Green=Tags(s)

MSENLDNEGPKPMESCGQESSALSCPTVSVPPAAPAALEEVEKEGAGAATGPGPQPGLYSYIRDDLFTS  
 EIFKLELQNVPRHASFSDVRRFLGRFGLQPHKTKLFGQPPCAFVTFRCAAERDKALRVLHGALWGRPLS  
 VRLARPKADPMARRRRQEGESEPPVTRVADVVTPLWTPVYAEQLERKQLECEQVLQKLAKEIGSTNRALL  
 PWLLEQRHKHNKACPLEGVRPSPOQTEYRNKCEFLVGVGVDGEDNTVGCRLGKYKGGTCAVAAPFDTVH  
 IPEATKQVVKAFQEFIRSTPYSAYDPETYTGHWKQLTVRTRRRHQAMAIAYFHPQKLSPEELAEKLSLA  
 QHFTAGPGRASGVTCLYFVEEGQRKTPSQEGLPLEHVAGDRCIHEDLLGLTFRISPHAFFQVNTPAEVL  
 YTVIQDWAQLDAGSMVLDVCCGTGTIGLALARKVKRIVGVELCPEAVEDARVNAQDNELSNVEFHCGRAE  
 DLVPTLVSRLASQHLVAILDPPRAGLHSHKVIILAIRRAKNLRRLLYVSCNPRAAMGNFVLDLCRAPSNRVK  
 IPFRPVKAVAVDLFPQTPHCEMLILFERVEHPNGTGVLGPHSPPAQPPTGPPDNTLQETGTFFSS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_022727

**ORF Size:** 1875 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\\_022727.6](#)

**RefSeq Size:** 2917 bp

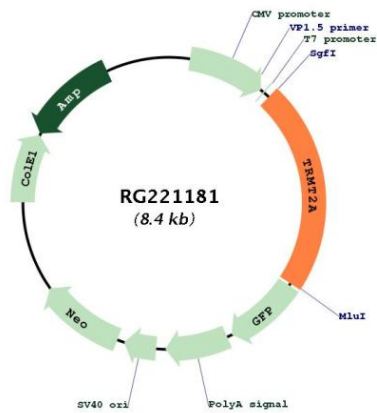
**RefSeq ORF:** 1878 bp

**Locus ID:** 27037

**UniProt ID:** [Q8IZ69](#)

**Cytogenetics:** 22q11.21  
**Domains:** RRM  
**Protein Families:** Druggable Genome  
**Gene Summary:** The protein encoded by this gene is of unknown function. However, it is orthologous to the mouse Trmt2a gene and contains an RNA methyltransferase domain. Expression of this gene varies during the cell cycle, with aberrant expression being a possible biomarker in certain breast cancers. Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

**Product images:**



Circular map for RG221181