

Product datasheet for **RG238947**

HCE (RNGTT) (NM_001286426) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCE (RNGTT) (NM_001286426) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HCE
Synonyms:	CAP1A; hCAP; HCE; HCE1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238947 representing NM_001286426.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGCTCAACAAGATCCC GCCGGTGGTGAACGTCCCGCGCGGCCAGCCGGTGGCAGGAAGA
TTCTTACCTCTGAAGACAATGTTAGGACCAAGATATGATAGTCAAGTTGCTGAAGAAAATCGGTTCCAT
CCAGCATGCTCTCAAATTACCTAAAGAGCCTAAAGGTTAAAATGGGCTTGTGGTGGACCTGACAAT
ACTTCAAGGTTCTATGACCGAAAATGACATAGAAAAAGAAGGAATCAAATATATAAAACTTCAGTGTAAA
GGACATGGTGAAGTACCCTACCACTGAGAATACTGAGACCTTTATTCGTCTGTGTGAGCGGTTAATGAA
AGAAAATCCACCTGAACCTATAGGTGTTCACTGTACTCATGGCTTCAATCGCACTGGTTTCTCATATGT
GCCTTTTTGGTGGAGAAAATGGATTGGAGTATCGAAGCAGCAGTTGCTACTTTTGCCCAAGCCAGACCA
CCAGGAATCTACAAGGTGATTATTTGAAGGAACCTTTTCGTGGTATGGTGACATAGAGGAAGCACCA
CCCCACCTCTATTGCCAGATTGGTGTGGTGGAGTATGAAGACGAAGATGAGGATGAGGATGGAAG
AAGGAATCAGAACC CGGTCAAGTGCTTCTTTGGCAAAAGGAGAAAAGAACGGTTAAAAC TGGCGCT
ATTTTCTTGAAGGTGTTACTGTTAAAGGTGTAACCTCAAGTAACAACACAACCAAAGTTAGGAGAGGTA
CAGCAGAAGTGTCAATTCTGTGGCTGGGAAGGGTCTGGATTCCCTGGAGCACAGCCTGTTTCCATG
GACAAGCAAAATATTAACCTTTTAGACCTGAAGCCATACAAAAGTAAGCTGGAAAGCAGATGGTACTCGG
TACATGATGTTGATTGATGGCACAAATGAAGTTTTATGATTGATAGAGACAATTCAGTATTTTCATGTT
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TTTTTTGACATCTGTACTTCAAGAAAGAAAATACAACCTGGTCGATGTGATGATATTTTGAATGGAAG
CCTCCCGTCTGAATTTCTGTGGATTTTCGTCTAAAAATAACAAGAATGGGAGGAGAAGGGTACTTCTCT
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CTGAAACAGTATGACAACAAAATATAGAATGCAAATTTGAGAACAACAGCTGGGCTTTCATGAGACAG
AGAACAGACAAAAGTTTTCTAATGCCTACAACACTGCCATGGCTGTGTGTAACAGCATCTCAAACCT
GTCACCAAGGAGATGCTGTTGAGTTCATCGACAGATGTACTGCAGCTTCTCAAGGACAGAAGCGAAAA
CATCATCTGGACCCTGACACGGAGCTCATGCCACCACCCTCCCAAAAGACCACGCCCTTAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG238947
 Blue=ORF Red=Cloning site Green=Tag(s)

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MAHNKIPPRWLNCPRRGQPVAGRFLPLKTM L GPRYDSQVAEENRFHPSMLS NYLKS LKVKMGLLVDL TN
TSRFYDRNDIEKEGIKYIKLQCKGHGECPTTENTETFIRLCERFNERNPPELIGVHCTHGFNRTGFLIC
AFLVEKMDWSIEAAVATFAQARPPGIYKGDYKELFRRYGDIIEAPPPLLPDWCFFEDEDEDEDEDEGK
KESEPSSASFGKRRKERLKLGAIFLEGVTVKGVTVQVTTQPKLGEVQKCHQFCGWEGSGFPGAQPVSM
DKQNIKLLDLKPYKYSWKADGTRYMMLIDGTNEVFMIDRDNVSVFHVSNLEFPFRKDLRMHLSNTLLDGE
MIIDRVNGQAVPRYL IYDI I KFN SQPVGD CDFNVLQCIEREI I SPRHEKMK TGL IDKTQEPFSVRNKP
FFDICTSRKKYKPGRCDDILKWKPPSLNSVDFRLK I TRMGEGLLPQNVGLL YVGGYERPFQIKVTKE
LKQYDNK I IECKFENNSWVFMQRQTDKSFNPAYNTAMAVCN S I SNPVTKEMLFEF IDRCTAASQGQKRK
HHLDPDELMPPPPPKRPRPLT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPEDE
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001286426

ORF Size: 1722 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).

RefSeq: [NM_001286426.2](#)

RefSeq Size: 4772 bp

RefSeq ORF: 1725 bp

Locus ID: 8732

UniProt ID: [O60942](#)

Cytogenetics: 6q15

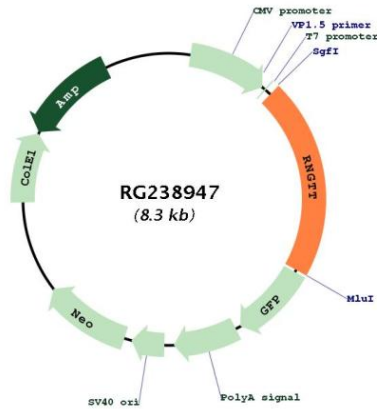
Protein Families: Druggable Genome, Phosphatase

MW: 66.5 kDa

Gene Summary:

Bifunctional mRNA-capping enzyme exhibiting RNA 5'-triphosphatase activity in the N-terminal part and mRNA guanylyltransferase activity in the C-terminal part. Catalyzes the first two steps of cap formation: by removing the gamma-phosphate from the 5'-triphosphate end of nascent mRNA to yield a diphosphate end, and by transferring the gmp moiety of GTP to the 5'-diphosphate terminus.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG238947