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Product datasheet for RG238659

HCE (RNGTT) (NM_001286428) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCE (RNGTT) (NM_001286428) 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:

>RG238659 representing NM_001286428.
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGCTTGTTGGTGGACCTGACAAATACTTCAAGGTTCTATGACCGAAATGACATAGAAAAAGAAGGA
ATCAAATATATAAAACTTCAGTGTAAAGGACATGGTGAGTGCCCTACCACTGAGAATACTGAGACCTTT
ATTCGTCTGTGTGAGCGGTTTAATGAAAGAAATCCACCTGAACTTATAGGTGTTCATTGTACTCATGGC
TTCAATCGCACTGGTTTCCTCATATGTGCCTTTTTGGTGGAGAAAATGGATTGGAGTATCGAAGCAGCA
GTTGCTACTTTTGCCCAAGCCAGACCACCAGGAATCTACAAGGGTGATTATTTGAAGGAACTTTTTCGT
CGGTATGGTGACATAGAGGAAGCACCACCCCCACCTCTATTGCCAGATTGGTGTTTTGAGGATGATGAA
GACGAAGATGAGGATGAGGATGGAAAGAAGGAATCAGAACCCGGGTCAAGTGCTTCTTTTGGCAAAAGG
AGAAAAGAACGGTTAAAACTGGGCGCTATTTTCTTGGAAGGTGTTACTGTTAAAGGTGTAACTCAAGTA
ACAACACAACCAAAGTTAGGAGAGGTACAGCAGAAGTGTCATCAATTCTGTGGCTGGGAAGGGTCTGGA
TTCCCTGGAGCACAGCCTGTTTCCATGGACAAGCAAAATATTAAACTTTTAGACCTGAAGCCATACAAA
GTAAGCTGGAAAGCAGATGGTACTCGGTACATGATGTTGATTGATGGCACAAATGAAGTTTTTATGATT
GATAGAGACAATTCAGTATTTCATGTTTCAAATCTGGAATTTCCATTTCGTAAAGATCTTCGTATGCAT
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TTGATATATGACATAATTAAATTCAATTCACAGCCCGTTGGAGATTGTGATTTTAATGTTCGTCTGCAG
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GAACCATTTAGCGTCAGAAATAAGCCGTTTTTTGACATCTGTACTTCAAGAAAGAAATACAAACCTGGT
CGATGTGATGATATTTTGAAATGGAAGCCTCCCAGTCTGAATTCTGTGGATTTTCGTCTAAAAATAACA
AGAATGGGAGGAGAAGGGTTACTTCCTCAGAATGTTGGCCTCCTGTATGTTGGAGGTTATGAAAGACCC
TTTGCACAAATCAAGGTGACAAAAGAGCTGAAACAGTATGACAACAAAATTATAGAATGCAAATTTGAG
AACAACAGCTGGGTCTTCATGAGACAGAGAACAGACAAAAGTTTTCCTAATGCCTACAACACTGCCATG
GCTGTGTGTAACAGCATCTCAAACCCTGTCACCAAGGAGATGCTGTTTGAGTTCATCGACAGATGTACT
GCAGCTTCTCAAGGACAGAAGCGAAAACATCATCTGGACCCTGACACGGAGCTCATGCCACCACCACCT
CCCAAAAGACCACGCCCTTTAACC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

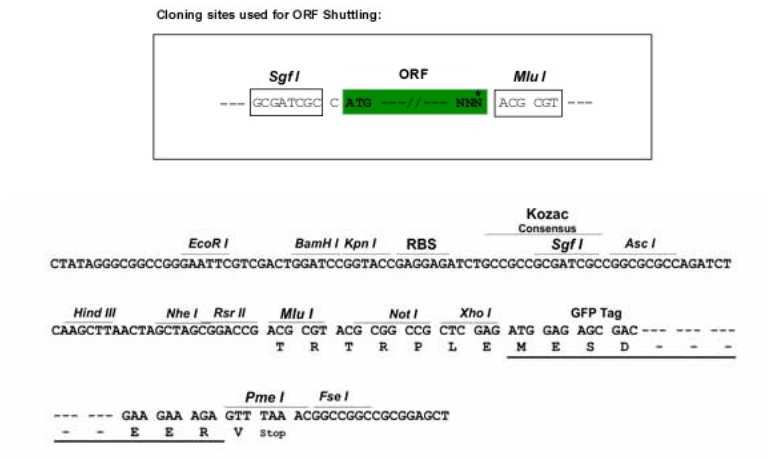
Protein Sequence:

>Peptide sequence encoded by RG238659
Blue=ORF Red=Cloning site Green=Tag(s)

MGLLVDLTNTSRFYDRNDIEKEGIKYIKLQCKGHGECPTTENTETFIRLCERFNERNPPELIGVHCTHG
FNRTGFLICAFLVEKMDWSIEAAVATFAQARPPGIYKGDYLKELFRRYGDIEEAPPPPLLPDWCFEDDE
DEDEDEDGKKESEPGSSASFGKRRKERLKLGAIFLEGVTVKGVTQVTTQPKLGEVQQKCHQFCGWEGSG
FPGAQPVSMDKQNIKLLDLKPYKVSWKADGTRYMMLIDGTNEVFMIDRDNSVFHVSNLEFPFRKDLRMH
LSNTLLDGEMIIDRVNGQAVPRYLIYDIIKFNSQPVGDCDFNVRLQCIEREIISPRHEKMKTGLIDKTQ
EPFSVRNKPFFDICTSRKKYKPGRCDDILKWKPPSLNSVDFRLKITRMGGEGLLPQNVGLLYVGGYERP
FAQIKVTKELKQYDNKIIECKFENNSWVFMRQRTDKSFPNAYNTAMAVCNSISNPVTKEMLFEFIDRCT
AASQGQKRKHHLDPDTELMPPPPPKRPRPLT
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001286428

ORF Size: 1542 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_001286428.2

RefSeq Size: 4662 bp

RefSeq ORF: 1545 bp

Locus ID: 8732

UniProt ID: O60942

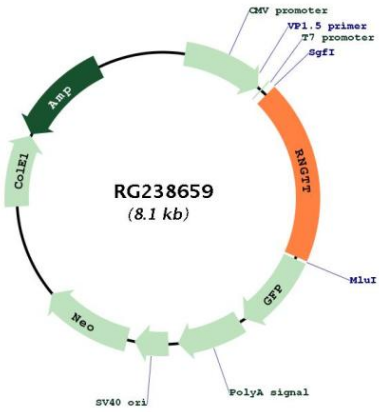
Cytogenetics: 6q15

Protein Families: Druggable Genome, Phosphatase

MW: 59.5 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 RG238659