

Product datasheet for **RC238659**

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:	Myc-DDK
Symbol:	RNGTT
Synonyms:	CAP1A; hCAP; HCE; HCE1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238659 representing NM_001286428
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTTGTGGTGGACCTGACAAATACTTCAAGTTCTATGACCGAAATGACATAGAAAAAGAAGGAA
 TCAATATATAAACTTCAGTGTAAAGGACATGGTGAGTGCCCTACCACTGAGAATACTGAGACCTTTAT
 TCGTCTGTGTAGCGGTTAATGAAAGAAATCCACCTGAACCTTATAGGTGTTTATTGTAAGGAACTTTTTCGTCGGTA
 AATCGCACTGGTTTCTCATATGTGCCTTTTGGTGGAGAAAAATGGATTGGAGTATCGAAGCAGCAGTTG
 CTACTTTTGCCAAGCCAGACCACCAGGAATCTACAAGGGTGATTATTTGAAGGAACTTTTTCGTCGGTA
 TGGTGACATAGAGGAAGCACCACCCACCTCTATTGCCAGATTGGTGTGTTTGGAGATGATGAAGACGAA
 GATGAGGATGAGGATGGAAGAAGGAATCAGAACCCGGGCAAGTGTCTTTTGGCAAAAGGAGAAAAAG
 AACGGTAAAACGGCGCTATTTCTTGAAGGTGTTACTGTTAAAGGTGTAACCAAGTAACAACACA
 ACCAAAGTTAGGAGAGGTACAGCAGAAGTGCATCAATCTGTGGCTGGGAGGGTCTGGATTCCCTGGA
 GCACAGCTGTTTCCATGGACAAGCAAAATATTAACCTTTAGACCTGAAGCCATACAAAGTAAGCTGGA
 AAGCAGATGGTACTCGGTACATGATGTTGATTGATGGCACAATGAAGTTTTATGATTGATAGAGACAA
 TTCAGTATTTTCAATCTGGAATTTCCATTTTCGTAAGATCTTCGTATGCATTTTCAAACTACT
 CTCTTGGATGGCAGATGATTATTGACAGAGTAAATGGACAGGCTGTTCCCTAGATATTTGATATATGACA
 TAATTAATCAATTCACAGCCCGTTGGAGATTGTGATTTAATGTTTCGCTGCAGTGTATAGAACGAGA
 AATTATAAGTCTCGACACGAAAAATGAAGACTGGGCTCATTGACAAAACACAGGAACCATTTAGCGTC
 AGAAATAAGCCGTTTTTGGACATCTGTACTTCAAGAAAGAAATACAAACCTGGTCGATGGATGATATTT
 TGAATGGAAGCCTCCAGTCTGAATTTCTGTGGATTTTTCGTTAAAAATAACAAGATGGGAGGAGG
 GTTACTTCTCAGAATGTTGGCCTCTGTATGTTGGAGGTTATGAAAGACCCTTTGACACAAATCAAGGTG
 ACAAAAGAGCTGAAACAGTATGACAACAAATATAGAATGCAAAATTTGAAACAACAGCTGGGTCTTCA
 TGAGACAGAGAACAGACAAAAGTTTTCTAATGCCTACAACACTGCCATGGCTGTGTGTAACAGCATCTC
 AAACCCTGTCACCAAGGAGATGCTGTTTGGATTTCGACAGATGACTGCAGCTTCTCAAGGACAGAAG
 CGAAAACATCATCTGGACCCTGACAGGAGCTCATGCCACCACCCTCCAAAAGACCACGCCCTTTAA
 CC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238659 representing NM_001286428
 Red=Cloning site Green=Tags(s)

MGLLVDLTNTSRFYDRNDIEKEGIKYIKLQCKGHGECPTTENTETFIRLCERFNERNPPELIGVHCTHGF
 NRTGFLICAFLEVKMDWSIEAAVATFAQARPPGIYKGDYKELFRRYGDIIEAPPPLLPDWC FEDDEDE
 DEDEDGKKESEPGSSASFGKRRKERLKLGAIFLEGVTVKGVTVTTQPKLGEVQQKCHQFCGWEWEGSFGPG
 AQPVSMQKQNIKLLDLKPYKVSWKADGTRYMMLIDGTNEVFMIDRDNSVFHVSNLEFPFRKDLRMLNSNT
 LLDGEMIIDRVNGQAVPRYLIIYDIKFN SQPVGDCDFNVRLQCIEREIISPRHEKMTGLIDKTQEPFSV
 RNKPFDICTSRKYPGRDDILKWKPPSLNSVDFRLKITRMGGEGLLPQNVGLLYVGGYERPFQIKV
 TKELKQYDNKIIIECKFENNSWVFMQRQTDKSFNAYNTAMAVCNISINPVTKEMLFEFIDRCTAASQGQK
 RKHHLDPDELMPPPPKRPRPLT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

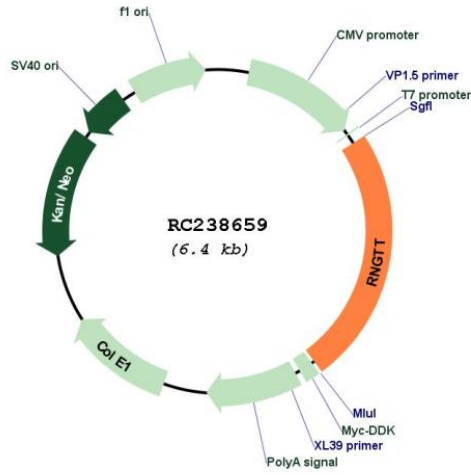
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



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).
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_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]