

Product datasheet for **RC238947**

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:	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:

>RC238947 representing NM_001286426
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCACAAACAGATCCCGCCGGTGGCTGAACTGTCCCGCGCGGCCAGCCGGTGGCAGGAAGAT
 TCTTACCTCTGAAGACAATGTTAGGACCAAGATATGATAGTCAAGTTGCTGAAGAAAATCGTTCCATCC
 CAGCATGCTCTCAAATTACCTAAAGAGCCTAAAGGTTAAAATGGGCTTGTGGTGGACCTGACAAACT
 TCAAGGTTCTATGACCGAAATGACATAGAAAAGAAGGAATCAAATATATAAACTTCAGTGAAAGGAC
 ATGGTGAGTGCCTACCACTGAGAATACTGAGACCTTTATTCGTCTGTGTGAGCGGTTTAAATGAAAGAAA
 TCCACCTGAACCTATAGGTGTTTACTGTACTCATGGCTTCAATCGCACTGGTTTCTCATATGTGCCTTT
 TTGGTGGAGAAAATGGATTGGAGTATCGAAGCAGCAGTTGCTACTTTTGCCTAAGCCAGACCACCAGGAA
 TCTACAAGGGTGATTATTTGAAGGAACTTTTTCGTGGTATGGTACATAGAGGAAGCACCACCCACC
 TCTATTGCCAGATTGGTGTTTGAGGATGATGAAGACGAAGATGAGGATGAGGATGGAAAGAAGGAATCA
 GAACCCGGGTCAAGTGCTTCTTTGGCAAAAGGAGAAAAGAACGGTTAAAACCTGGGCGCTATTTTCTTGG
 AAGGTGTTACTGTTAAAGGTGTAACCAAGTAACAACACAACCAAGTTAGGAGAGGTACAGCAGAAGTG
 TCATCAATTCTGTGGCTGGGAAGGGTCTGGATTCCCTGGAGCACAGCCTGTTTCCATGGACAAGCAAAAT
 ATTAACCTTTTAGACCTGAAGCCATACAAAGTAAGCTGGAAGCAGATGGTACTCGGTACATGATGTTGA
 TTGATGGCACAATGAAGTTTTATGATTGATAGAGACAATTCAGTATTTTCAATCTGGAATT
 TCCATTTTCGTAAGATCTTCGTATGCATTTATCAAATACTCTCTTGGATGGCGAGATGATTATTGACAGA
 GTAAATGGACAGGCTGTTCCCTAGATATTTGATATATGACATAATTAATTCATTCACAGCCCGTTGGAG
 ATTGTGATTTTAAATGTTCTGCAGTGTATAGAACGAGAAATTATAAGTCTCGACAGCAAAAATGAA
 GACTGGGCTCATTGACAAAACACAGGAACCATTTAGCGTCAGAAAATAAGCCGTTTTTTGACATCTGACT
 TCAAGAAAAGAAATACAAACCTGGTGCATGTGATGATATTTTGAATGGAAGCCTCCCACTGCAATTCTG
 TGGATTTTCTGCTAAAAATAACAAGATGGGAGGAGAAGGGTTACTTCTCAGAAATGTTGGCCTCTGTA
 TGTTGGAGGTTATGAAAGACCTTTGCACAATCAAGGTGACAAAAGAGCTGAAACAGTATGACAACAAA
 ATTATAGAATGCAAAATTTGAGAACAACAGCTGGGTCTTCATGAGACAGAGAACAGACAAAAGTTTCTTA
 ATGCCTACAACACTGCCATGGCTGTGTGAACAGCATCTCAAACCTGTCACCAAGGAGATGCTGTTTGA
 GTTCATCGACAGATGACTGCAGCTTCTCAAGGACAGAAGCGAAAACATCATCTGGACCCTGACACGGAG
 CTCATGCCACCACCCTCCAAAAGACCAGCCCTTTAACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238947 representing NM_001286426
 Red=Cloning site Green=Tags(s)

MAHNKIPPRWLNCPRRGQPVAGRFLPLKTM LGPRYDSQVAEENRFHPSMLS NYLKS LKVKMGLLVDLTNT
 SRFYDRNDIEKEGIKYIKLQCKGHGECPTTENTETFIRLCERFNERNPPELIGVHCTHGFNRTGFLICAF
 LVEKMDWSIEAAVATFAQARPPGIYKGDYKELFRRYGDIEEAPPPPLLPDWC FEDEDEDEDEDEGKKES
 EPGSSASFGKRRKERLKLGAIFLEGVTVKGVTVTTQPKLGEVQKQKCHQFCGWE GSGFPGAQPVSMQKQ
 IKLLDLKPYKVSWKADGTRYMMLIDGTNEVFMIDRDNSV FHVSNLEFPFRKDLRMHLSNTLLDGEMIIDR
 VNGQAVPRYL IYDI IIFNSQPVGDCDFNVRLQCIEREIISPRHEKMKTGLIDKTQEPFSVRNKPF DICT
 SRKKYKPGRCDDILKWKPPSLNSVDFRLKITRMGGELLPQNVGLLYVGGYERPF AQIKVTKELKQYDNK
 IIECKFENNSWVFMQRQTDKSFNPAYNTAMAVCNSISNPVTKEMLFEFIDRCTAASQGQKRKHHLDPDTE
 LMPPPPPKRPRPLT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

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_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]