

Product datasheet for **SC117771**

HCE (RNGTT) (NM_003800) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HCE (RNGTT) (NM_003800) Human Untagged Clone
Tag:	Tag Free
Symbol:	HCE
Synonyms:	CAP1A; hCAP; HCE; HCE1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117771 sequence for NM_003800 edited (data generated by NextGen Sequencing)

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ATGGCTCACAACAAGATCCC GCCGCGGTGGCTGAACTGTCCCCGGCGCGGCCAGCCGGTG
GCAGGAAGATTCTTACCTCTGAAGACAATGTTAGGACCAAGATATGATAGTCAAGTTGCT
GAAGAAAATCGGTTCCATCCCAGCATGCTCTCAAATTACCTAAAGAGCCTAAAGGTTAAA
ATGGGCTTGTGGTGGACCTGACAAATACTTCAAGGTTCTATGACCGAAATGACATAGAA
AAAGAAGGAATCAAATATATAAAAACCTTCAAGTGTAAAGGACATGGTGAGTGCCCTACCACT
GAGAATACTGAGACCTTTATTCGTCTGTGTGAGCGGTTTAAATGAAAGAAAATCCACCTGAA
CTTATAGGTGTTCAATGTACTCATGGCTTCAATCGCACTGGTTTTCTCATATGTGCCTTT
TTGGTGGAGAAAATGGATTGGAGTATCGAAGCAGCAGTTGCTACTTTTGCCCAAGCCAGA
CCACCAGGAATCTACAAGGGTGATTATTTGAAGGAACTTTTTCTGTCGGTATGGTGACATA
GAGGAAGCACCACCCACCTCTATTGCCAGATTGGTGTGGAGGATGATGAAGACGAA
GATGAGGATGAGGATGGAAGAAGGAATCAGAACCCGGGCAAGTGCTTCTTTGGCAA
AGGAGAAAAGAACGGTAAAACCTGGGCGCTATTTCTTGAAGGTGTTACTGTTAAAGGT
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TGTGGCTGGGAAGGGTCTGGATTCCCTGGAGCACAGCCTGTTTCCATGGACAAGCAAAAT
ATTAACCTTTTAGACCTGAAGCCATACAAAGTAAGCTGGAAGCAGATGGTACTCGGTAC
ATGATGTTGATTGATGGCACAATGAAGTTTTATGATTGATAGAGACAATTCAGTATTT
CATGTTTCAAATCTGGAATTTCCATTTCTGTAAGATCTTCGTATGCATTTATCAAATACT
CTCTTGGATGGCAGATGATTATTGACAGAGTAAATGGACAGGCTGTTCCTAGATATTTG
ATATATGACATAATTAATTCATTCACAGCCGTTGGAGATTGTGATTTAATGTTTCGT
CTGCAGTGATAGAACGAGAAAATATAAGTCTCGACACGAAAAAATGAAGACTGGGCTC
ATTGACAAAACACAGGAACCATTTAGCGTCAGAAAATAAGCCGTTTTTTGACATCTGACT
TCAAGAAAAGCTACTTGAAGGAAAATTTTGCCAAAGAAGTGAGCCATGAAATGGATGGACTT
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CCTCCCAGTCTGAATCTGTGGATTTCTGCTAAAAATAACAAGAATGGGAGGAGAAGGG
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ATCAAGGTGACAAAAGAGCTGAAACAGTATGACAACAAAATTATAGAATGCAAATTTGAG
AACACAGCTGGTCTTCATGAGACAGAGAACAGACAAAAGTTTTCTAATGCCTACAAC
ACTGCCATGGCTGTGTAAACAGCATCTCAAACCTGTCACCAAGGAGATGCTGTTTGAG
TTCATCGACAGATGACTGCAGCTTCTCAAGGACAGAAGCGAAAACATCATCTGGACCCT
GACACGGAGCTCATGCCACCACCCTCCAAAAGACCAGCCCTTTAACCTAA

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Clone variation with respect to NM_003800.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003800 unedited

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GATTAGGGNCGGCACGCGCAATTCGGCAGGAGGCTGTGGAGTTGATCCTGAATGAAAGTG
GCGCGCCGCCCTGACGTTACCCGGATCGGAGAGGTTGGAATTCATATTACGGCTGCGAT
TCGGGTGTCTCGGACCCCGGTGTGCACCGGACCACGGGGAGGCGGCTCCAAGGCCGCGGT
GAACGTTGGTGTGATGGATGGCAGCTCTGCGCAGCCCAAGACATGGCTCACAACAAGATCC
CGCCGCGGTGGTGAACCTGTCCCCGGCGCGGCCAGCCGGTGGCAGGAAGATTTTACCTC
TGAAGACAATGTTAGGACCAAGATATGATAGTCAAGTTGCTGAAGAAAATCGGTTCCATC
CCAGCATGCTCTCAAATTACCTAAAGAGCCTAAAGGTTAAAATGGGCTTGTGGTGGACC
TGACAAAATACTTCAAGTTCTATGACCGAAATGACATAGAAAAAGAAGGAATCAAATATA
TAAAACCTCAGTGTAAAGGACATGGTGAGTGCCCTACCACTGAGAATACTGAGACCTTTA
TTGCTGTGTGAGCGGTTTAAATGAAAGATATCCACCTGAACTTATAGGTGTTCAATGTGA
CTCATGGCTTCAATCGCACTGGTTTTCTCATATGTGCCTTTTTGGTGGAGAAAATGGATT
GGAGTATCNGATCAGCAGTTGCTACTTTTGCCAGCCAGACCACCAGGAATCTACAAGGG
TGATTATTTTGAAGAATTTTTCTGTCNGTTTGGTGACATAGAGGAAGCACCACCCACC
TCTATTGCCAAATATGGTGTGGTGGAGGATGATGAANACCATNATGANGATGAGCGATGGA
AAGATAGAATCAAAAACCCGGTCAAGTGCTTTCTTTTGGGCAAAGGNAGAAAAGAATCGGT
TAAAACCTGGCA

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003800 unedited NTTGTGACTAGNACGCGGCCGCTTTTANGATCGNGTTTTTTTTTTTTTTTTTTAATTTA AATCAGTAGTTTTATTACAATACGCACTGACACACAATTGGNAAAAGGAATGTCCTGACA TTTTCTGAGCATTTCACGGAAAGCAAATGTAACCATCCACGCAGTAGAGTCATCCACACC TTTTCTAACA AAAAGCAAAGCTTTTACATGTGATAACTGAAGAAAGCAAAGTTTTCTT ATCTTGTCTAAAAAATTCAGTCTCAGAAAATAGTTATTGAAGTGAGCTGAGAAGGAGC ACATTTCTTACAATGTCCAAAATCCTGCCTCTAGATTATCCCCCTGACCTTCTAAATG ACTTTTATAACTGCAGATGGTATTATGTTTCAGGGGCTAAATGGGATCTACTTATAAGG CCAACTACTCTATGCTACTATAATTGAAAGGAAAGAATAAATTAAGAAAATTAAGTCCTG CTA AAAATGCACAAAGACTTGAAGAAAATATCTGGGTGATTAAAAGTGAGATGCTTTTT CACGTA ACTCATTGAAAGGTTACAATTACCATAAACATTNTAACTCCATTAAAGATCAT TGGCAAAGCTTGCTTTTCGTATCTGCAAAGGGCTCTGCCTTTCCACAGGCTCGGAGGGAA AGCAGCACACCGTGAAGAGTCACTCGTCTGGGAAAGCAGCATCAGACTATNTGAAGT TGCATAGGCATTNTTTTTTAATCCATTNTGTAAGATACTATGGGACCTTGAGATTT TCCCTCCTTCATAGTCATTGGGCATCAGTTGTTTTATCCCTTTACGCCAAGTGCAAAAA CCTCTAGTAAAAAATACAATGGCGTTTGATAAATCACTATACATTACTGACTTGGGA A
Restriction Sites:	NotI-NotI
ACCN:	NM_003800
Insert Size:	4110 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_003800.1</u> , <u>NP_003791.1</u>
RefSeq Size:	4546 bp
RefSeq ORF:	1794 bp
Locus ID:	8732
UniProt ID:	<u>O60942</u>
Cytogenetics:	6q15
Domains:	mRNA_cap_C

Protein Families: Druggable Genome, Phosphatase

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]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).