OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for SC206541

C3orf37 (HMCES) (NM_001006109) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	C3orf37 (HMCES) (NM_001006109) Human 3' UTR Clone
Symbol:	C3orf37
Synonyms:	C3orf37; DC12; SRAPD1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001006109
Insert Size:	513 bp
Insert Sequence:	>SC206541 3'UTR clone of NM_001006109 The sequence shown below is from the reference sequence of NM_001006109. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC CCTGTGGCCAAGCGTCCTTACAGCCAGTGACACAGGACTTTCAGAGACCAAGGCCAGGGTCTGCTGCAC TGCTGTTCTGATAATAGGTTCTTAACATTGTATGTATATGTGTTTGCTTTGGGAGGAGGTGGCACTGTG TTAGTTGACAGTTGTGGGCTCATGTAGTCTTTTTTGCCATGAGTAGGAGCCCCTAGTGGGGCTGGTGGA CAGCTTTGGAAGAGGTGTCCTGCTGCTGTTACCAGCCATGTGGGCCCCATAGGGGCACTGCGCCTGCTG CCCTTTCCTGGCAGGGCTGGTGGAGTCTTCCCTCAAAGCATGCCTTACCCAGCTGGGAAGTCTCTGCCC TGATCTGGTACTCCTTGTAGTAAGCTGTTTTCTGCTCAGCCACTGGGCTCTTTCACTTTTTTAGTTCTT AAAAATTTATTTTTAAGTTCTAAAATAAAATAAAAATAAGTTCTTAAAATTTATTTTTTTCCTGAATAA ATTGTATTTGGTAAAAAAAAAAAAAAAAAA ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG
Restriction Sites:	SgfI-MluI
OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

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Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_001006109.1

Summary: Sensor of abasic sites in single-stranded DNA (ssDNA) required to preserve genome integrity by promoting error-free repair of abasic sites (PubMed:30554877). Acts as an enzyme that recognizes and binds abasic sites in ssDNA at replication forks and chemically modifies the lesion by forming a covalent cross-link with DNA (PubMed:30554877). The HMCES DNA-protein cross-link is then degraded by the proteasome (PubMed:30554877). Promotes error-free repair of abasic sites by acting as a 'suicide' enzyme that is degraded, thereby protecting abasic sites from translesion synthesis (TLS) polymerases and endonucleases that are error-prone and would generate mutations and double-strand breaks (PubMed:30554877). Acts as a protease: mediates autocatalytic processing of its N-terminal methionine in order to expose the catalytic cysteine (By similarity). Specifically binds 5-hydroxymethylcytosine (5hmC)-containing DNA in stem cells (By similarity). May act as an endonuclease that specifically cleaves 5hmC-containing DNA; additional experiments are however required to confirm this activity in vivo (By similarity).[UniProtKB/Swiss-Prot Function]

Locus ID: 56941

MW: 18.5