

Product datasheet for **SC206558**

C3orf37 (HMCEs) (NM_020187) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	C3orf37 (HMCEs) (NM_020187) Human 3' UTR Clone
Symbol:	C3orf37
Synonyms:	C3orf37; DC12; SRAPD1
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_020187
Insert Size:	1391 bp



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Insert Sequence: >SC206558 3'UTR clone of NM_020187
 The sequence shown below is from the reference sequence of NM_020187. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCTGTGGCCAAGCGTCTTACAGCCAGTACACAGGACTTTCAGAGACCAAGGCCAGGGTCTGCTGCAC
TGCTGTTCTGATAATAGGTTCTTAACATTGTATGTATATGTGTTTGTCTTTGGGAGGAGGTGGCACTGTG
TTAGTTGACAGTTGTGGGCTCATGTAGTCTTTTTTGCATGAGTAGGAGCCCTAGTGGGGCTGGTGGGA
CAGCTTTGGAAGAGGTGCTGCTGTACCAGCCATGTGGGCCCCATAGGGGCACTGCGCCTGCTG
CCCTTCTGGCAGGGCTGGTGGAGTCTCCCTCAAAGCATGCCTTACCCAGCTGGGAAGTCTGCCCC
TGATCTGGTACTCCTGTAGTAAGCTGTTTTCTGCTCAGCCACTGGGCTCTTCACTTTTTTAGTCTT
AAAAATTTATTTTAAAGTTCTAAAATAAAAATAAAAATAAGTTCTTAAAATTTATTTTTCTGAATAA
ATTGTATTTGGTAAACTTCTGCCTACATTTTGGAAAGTGATGCTGGTGGGAAAGTTCTAGATCTTACT
TGGTTTCTCTAGAATCAGTCTTCAGGAATGGATTTTGTACAAATGGGGCATGGGGCTTCTGAGGA
AATAACTACAAGTCTTGGTGGTGGGCTCCTTATTATGTTCTTTTTCTTTCATTCTTGATACTTGGAAAG
TCGTCTGAATCCTTTAGCTTCAAACCAGCCTGAGTTTGTAGTGCTTGCCGTAGCAGAACTATCCTTACC
ACAGGTGGGAAGGAAAGGACCAGTTTCTAGCAGTGTGGGCCACTCCTCTTTCGAACATCCCTAAGGGA
GGCATTCAAAAAGCTGTCCAAGCAGCTGGAAGAAAACAGCTTCCGAGATGACCAGGAGGACTGGGCG
GCGCCGAGCCAGAACGCTCCTGGCGCAGCACCCTTGGCGTTGGCCGATTGCTGCTGGTGGGGGGCGGG
GGTGCAGGCCCCAGTCTCTATGCAAATCAGGGATCAGAAGATCGGAATTTCCACCAATCAGCGGGAAGC
CTCGGCCCTGTAAGTCTAATGGGAGACAGCAGCGCCACGCCACAGGCTTTCCCTGGTTTCGGGAGG
GGTGGGGAGCCAGGTGGGGCTCCCGCCAGACCCTTTCCCGAGGTCCGCCCTCTCCGCCTTTTCTCTAA
ATTCTCTTTTGTAGTGCCTCCCTTCCGTTGAGAGGCGGGGTTGGCCCGTAGTTGTACTACTAGTCA
CCCTGCACTGTGGAGGCGGGGGCTCCCTTGTGGACTGATTTGCGTGGGATTTGGTTGTTTTATTAAGA
GATTTAAAAAATTCAGATGACTTACTAGTATGACTGTTTTGTCATATTTGCTTCCAGGTTAATAAATGA
CAAAAATGAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCACCGCCCTTCTATGAAAGG
  
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Restriction Sites: Sgfl-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).

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_020187.3](#)

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:

50.1