

Product datasheet for **MC220009**

D7Ertd443e (NM_001081331) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	D7Ertd443e (NM_001081331) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	D7Ertd443e
Synonyms:	4933400E14Rik; FATS; Gm497
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC220009 representing NM_001081331
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATATCACCTGTGGTCATTTCCGGCTGATTGATGAAAAGAAATCTATGGAAATGGAGCAATATTGC
 CACAAGCCATTGCTCAGCCTCAGCTGTGTCCACAAAGCCAGCTTTGGCCAGGCGGATGGAGTGAGCAT
 GCACAGGCGATTTGCTTTATCTCCAGACAGACTGGGAATTTTACTCCATCAGATGATCAAGGACTGGAG
 ACAGAACCCTGTCTACAGGGGACAATCTAGGCAAAGTTCCACAGCGTTTCTCGTCTATCACCATTA
 CTGCCCGACGTGTGGCCCTCCAGCCAGCAGCTTGGTATGGGACACTTTTAGGGACCCACTGTGTCCAA
 GTGCAAAGCCAAGGATGCTCTGTTCCAAGACCCCCAGTTCTGGTGGTATGCCATCTCTGTACAGCAC
 AATAGACCCTTACCTGTACAGAGTCCCCAGCAATGGTCCGTAGAGGGGATGAAGTTTTCCAGGCTC
 ACTCAAGGCTGAGTGAAGGCAGGACTACTGGGTACCCACACGAATGACAATGAGGACAGTTTTTCTTC
 AGACAATTCACCATCGAGAAAAGTCCCACTGGTGTTCAGTTCTTGTGTCCACTTCCGGGTGTCTCAGCAG
 TGTCCCAATGCCATTTACTATTTGGACAAGTCTTTTCTGTTCCCTTGAGCGACCTCAAATTTGCTAGCC
 CAAAAATGCACAGGTCTGTCTGTCTCTCAGCCTCCGCTGTAGTTCCACCAAGTTAACAGCAGATGGAGT
 AGACAGCTCAGCTAATGGAGAGCCAATCAGCACAGCTCTATCACAGGAATCTCGGAGGGAAAGCAGGAC
 CTCCTAGGTCCACAATGGGGCCAGCCACAAGGTGGTCACTGGAAGGAGAGCCAGCATTGGTGCCAGTAC
 ATTTGGGAGTGGCACATGCCCTCGACTGGCTCCCTCCACTGGAAAATGTCAAATTTGCAGACGTGGG
 AAGGAACCAGTCCCAGTACGAAAGGAGAAAGAGGACCATGCAACATGTACCAGTAGCAGCCACACCAAC
 CAACTCTCCATCCATATCCCGGCTGGAGTTACAGGGCTGAAACAAAAGTACTTTCTGGAAGCAAGAAGC
 AGCAGCAAGAAGCACAAAGAACTTCTCTGCTTTCCAGTGGGACAGAAGACCATTAACACTTCCCTCC
 TGAAGGGGACAGTTCACCAAGCAGTGATGGTCAACCTAGCATCCTTTTCCAGAGTCCAATGAGAGGCAACAC
 CCATACTTCATGATACCCAGAGTCCCTCTGCCTGGGTTTTATTGCCCTTACAAAAGTGGGTGTGCCTCTC
 TGCAGGAAGATGGTGTCTTTCAGATAGAAACACACTTCCCAAGATTACACGTGCTGTGACTTGGTTGT
 AAAACTAAAGGAATGTGAGAAGAACGAAGACCCCACTGTACCCCTGAGCCCTCACCAGCAACCCCTCT
 CCATCAACCCAGAGGGAGCACAGAGCTCTGACCCATCAGAAGATAGTTACGAGCCTCTGCTGGCAAGTT
 CTATGACTTTGCAGGAAGCACTGGAAGTCCATAGACCTCAGTTTCTTCTCGCTCACAAGAACGGGTGCA
 AAAGTTAAGCGCATGGTACAGCAAAGGAAAACCAACAAAAGGAGAGCCTGGGGCAGAAGCAGAGCCTA
 CTTCTGTCCGCGCAACAAGAAGCAGTTCACCATTTCCCATCCTTTAGTGATAACTTGTCAAACCCA
 AAGAAAGATGCATTTTCCAGAGAAGGAGATGCATATGAGATCTAAAAGAATCTATAATAATTTGCCGGAAGT
 TAAAAAGAAAAAAGAAGAGCAGAAGAAAAGAAATGATCTTACAGAGTAACCGGCTCCGAGCAGAAGTCTTC
 AAAAAGCAATTAAGTGGACAGCTCCTTCAAGGAATGCAGTT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001081331
- Insert Size:** 1935 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:

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_001081331.1](#), [NP_001074800.1](#)

RefSeq Size: 2425 bp

RefSeq ORF: 1935 bp

Locus ID: 71007

UniProt ID: [D2IQY4](#)

Cytogenetics: 7 78.4 cM

Gene Summary: Tumor suppressor that is required to sustain G2/M checkpoint after DNA damage (PubMed:20843368, PubMed:20154723, PubMed:24240685). Acts as a p53/TP53 activator by inhibiting MDM2 binding to p53/TP53 and stimulating non-proteolytic polyubiquitination of p53/TP53. Exhibits ubiquitin ligase (E3) activity and assemble ubiquitin polymers through 'Lys-11'- (K11-), 'Lys-29'- (K29-) and 'Lys-63'- (K63)-linkages, independently of the ubiquitin-conjugating enzyme (E2). Promotes p53/TP53-dependent transcription of CDKN1A/p21, leading to robust checkpoint response (PubMed:24240685). Mediates CDKN1A/p21 protein stability in a ubiquitin-independent manner. Interacts with HDAC1 and prevents binding of HDAC1 to CDKN1A/p21 and facilitates the acetylation and stabilization of CDKN1A/p21 (PubMed:20154723). May have a role in the assembly of primary cilia (By similarity). [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.