

## Product datasheet for **MC228689**

### **D7Ertd443e (NM\_001199941) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	D7Ertd443e (NM_001199941) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	D7Ertd443e
Synonyms:	4933400E14Rik; FATS; Gm497
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC228689 representing NM\_001199941  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGATTAACGTCTGGGAAGGATTACTGCACACGTGCTATAGTACAAATGATCAAATCGCCCTTAAAA  
 ACCTGCAGTCTGATGTTACAGAGAGGAAGTTGGACTTCTCCAAGGAGACTGGCATCACAGAACAAG  
 AATGATATCACCTGTGGTCATTTCCCGGCTGATTGATGAAAAGAAATCTATGAAAATGGAGCAATATTG  
 CCACAAGCCATTGCTCAGCCTCAGCTGTGTCCACAAAGCCAGCTTTGGCCAGGCGCGATGGAGTGAGCA  
 TGCACAGGCGATTTGCTTTATCTCCAGACAGACTGGGAATTTTACTCCATCAGATGATCAAGGACTGGA  
 GACAGAACCGCTGTCTACAGGGGACAATCTAGGCAAAGGTTCCACAGCGGTTTCTCGTCTATCACCATT  
 ACTGCCGACGTGTGGGCCCTCCAGCCAGCAGCTTGGTATGGGACTTTTAGGGACCCACTGTGTCCCA  
 AGTGCAAAGCCAAGGATGCTCTGTTCCAAGAGCCCCAGTTCTGGCTGGTATGCCATCTCTGTCAGCA  
 CAATAGACCCCTCACCTGTACAGAGTCCCCAGCAATGGCTCCGTAGAGGGGATGAAGGTTTTCCAGGCT  
 CACTCAAGGCTGAGTGAAGGCAGGACTACTGGGTCACCCACACGAATGACAATGAGGACAGTTTTTCTT  
 CAGACAATTCACCATCGAGAAAAGTCCCACTGGTGTTCAGTTCTTGTGTCCACTTCGGGTGTCTCAGCA  
 GTGTCCCAATGCCATTTACTATTTGGACAAGTCTTTTCTGTTCCCTTGAGCGACCTCAAATGTAGC  
 CCCAAAATGCACAGGTCTGTCTGTCTCAGCCTCCGCTGTAGTTCCCAACAGTTAACAGCAGATGGAG  
 TAGACAGCTCAGCTAATGGAGAGCCAATCAGCAGACTCTATCACAGGAATCTCGGAGGGAAAGCAGGA  
 CCTCCTAGGTCCACAATGGGGCCAGCCACAAGTGGTCACTGGAAGGAGAGCCAGCATTGGTGCCAGTA  
 CATTTGGGGAGTGGCACATGCCCTCGGACTGGCTCCCCCTCACTGGAAAATGTCAAATTTGCAGACGTGG  
 GAAGGAACCAAGTCCCAGTACGAAAGGAGAAAGAGGACCATGCAACATGTACCAGTACAGCCACACCAA  
 CCAACTCTCCATCCATATTCGCGGCTGGAGTTACAGGGCTGAAACAAAAGTACTTTCTGGAAGCAAGAAG  
 CAGCAGCAAGAAGCACAAGAAGTCTTCTGCTTTCCAGTGGGACAGAAGACCTAAACACTTCCCTC  
 CTGAAGGGGACAGTTCACCAAGCAGTGTGGTCAACCTAGCATCCTTTCAGAGTCCAATGAGAGGCAACA  
 CCCATACTTCATGATACCCAGAGTCCCTCTGCCTGGGTTTTATTGCCCTTACAAACTGGGTGTGCCTCT  
 CTGCAGGAAGATGGTGTGTTTCCAGATAGAAACACACTTCCCCAAAGATTACAGTGTGTGACTTGGTTG  
 TAAAATAAAGGAATGTGAGAAGAACGAAGACCCCACTGTACCCTGAGCCCTCACCAGCAACCCCTC  
 TCCATCAACCCAGAGGGAGCACAGAGCTTGACCCATCAGAAGATAGTACGAGCCTCTGCTGGCAAGT  
 TCTATGACTTTGCAGGAAGCACTGGAAGTCCATAGACCTCAGTTCATTTCTCGCTACAAGAACGGCTGC  
 AAAAGCTTAAGGCATGGTACAGCAAAGGAAAACCAACAAAAGGAGAGCCTGGGGCAGAAGCAGAGCCT  
 ACTTCTGTCCGCGCAACAAGAAGCAGTTCACCATCCCCATCCTCTTAGTGATAAATTGTTCAAACCC  
 AAAGAAAGATGCATTTACAGAGAAGGAGATGCATATGAGATCTAAAAGAATCTATAATAATTTGCCGGAAG  
 TAAAAAAGAAAAAAGAAGAGCAGAAGAAAAAGATGATCTTACAGAGTAACCGGCTCCGAGCAGAAGTCTT  
 CAAAAAGCAATTACTGGACCAGCTCCTTCAAAGGAATGCAGTT**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001199941
- Insert Size:** 2076 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001199941.1, NP_001186870.1</u>
<b>RefSeq Size:</b>	2559 bp
<b>RefSeq ORF:</b>	2076 bp
<b>Locus ID:</b>	71007
<b>UniProt ID:</b>	<u>D2J0Y4</u>
<b>Cytogenetics:</b>	7 78.4 cM
<b>Gene Summary:</b>	<p>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).</p> <p>[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>