

## Product datasheet for **MR202833**

### D2Ertd750e (BC031709) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	D2Ertd750e (BC031709) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	D2Ertd750e
Synonyms:	1700025D04Rik; C15orf23; D2Ertd750e; SKAP; Traf4af1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202833 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGTGCTAAGACGGTGTGCGATGCGCAGCCTCACTCGATGCCGAGCTGCGGCTTGCCCGCAGATA  
CACAACTCGAGCTACTTCTAACTACCTGTAAATCAAAGAAGCGGATTTGCTTAGACATCTTCATCC  
AGGAGGGCCAGAGCCTGATGTTACAAAAGTCACCAAATCGAGACGAGAGAATGGCAGGTGAAAGCGGCA  
GAGACTGCCAGCAGGAGGAACCTCAGAAACAGCTACAAACCGTTAATAAGCAAAAACCGGAGGAGGAAC  
TAAAGGATAAAAATGAGCTGCTGGAGGCTGTCAACAAGCAGTTACACCAGAAGCTGACAGAGACTCAGGG  
AGAGCTGAAGGACCTGACACAGAAAGTGGAGCTACTGGAGAAGTTTCAGGATAACTGCTTAGCACTTTTG  
GAGAGCAAAGGTCTCAACCCAGGCCAAGAGACCCTGGCATCAAAGCAGGAACCCACCACAGATCACACGG  
ACTCCATGCTGCTGCTCGAACTTTGAAAGACGAACTGAAGGTTTTCAATGAAACCGCCAAGAAGCAGAT  
GGAGGAGCTACAGGCCTTGAAGGTGAAGTTGAAGCTGAAAGAAGAGGAGAGTGTCCAGTTCCTGGAACAG  
CAGACCTTATGTAAGGACGAAGCCAGTGACTTCACAATAATCCTAGAGGAAATGGAGCAGCTCTTAGAAA  
TG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR202833 protein sequence  
Red=Cloning site Green=Tags(s)

MASAKTVCDAPHSMPSCGLPADTQTRATSKLPVKSKEADLLRHLHPGGPEPDVTKVTKSRRENGQVKAA  
 ETASRRNLRNSYKPFNKQKPEEELKDKNELLEAVNKQLHQKL TETQGELKDLTQKVELLEKFQDNCLALL  
 ESKGLNPGQETLASKQEPTTDHTDSMLLLET LKDELKVFNETAKKQMEELQALKVKLKLKEEESVQFLEQ  
 QTLCKDEASDFTIILEEMQLLEM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** BC031709

**ORF Size:** 702 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

**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:** [BC031709](#), [AAH31709](#)

**RefSeq Size:** 1218 bp

**RefSeq ORF:** 704 bp

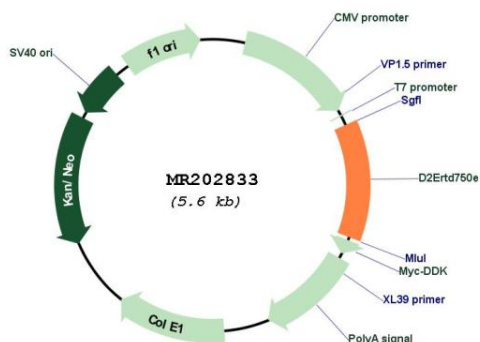
**Locus ID:** 51944

**Cytogenetics:** 2 E5

**MW:** 26.5 kDa

**Gene Summary:** Essential component of the mitotic spindle required for faithful chromosome segregation and progression into anaphase. Promotes the metaphase-to-anaphase transition and is required for chromosome alignment, normal timing of sister chromatid segregation, and maintenance of spindle pole architecture. The astrin (SPAG5)-kinastrin (SKAP) complex promotes stable microtubule-kinetochore attachments. Required for kinetochore oscillations and dynamics of microtubule plus-ends during live cell mitosis, possibly by forming a link between spindle microtubule plus-ends and mitotic chromosomes to achieve faithful cell division. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR202833