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Product datasheet for RR201693

Eid3 (NM_001044304) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eid3 (NM_001044304) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Eid3
Synonyms:	NS4EB
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR201693 representing NM_001044304 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGTCTGAAGAAAAATGTTCCCTTACTGGAGGCGAAGAGAAAGGAGAGGAGCTGGCCAGAAGCCTGGCGT GGCAGCACCTGGTGAAGCAGGCGGAAGAAGACGATGATGATGACGAAGAGGCACTGAAGAAGGAAGAGGA GGAGGAAGAGGAGGAGGAGGAGGAAGATGAAGAGGAAGAAGAGGAAGGCCCGGATAGTAGCTCGGATGAC CTGAGCCCCGAGGCCCCCTGCATGCACCCAGACCTCCTGGAGCTGGCGGTGGACCGAGAGAAGTGCCGCA GCATCCGCAGGCAGTACCGGCAGCTCATCTACACCGTGCAGCAGAACCGCGAGGACATCGTGAACACGGC CAGCGACTCGCTGACGGAGGCCCTGGAGGAAGCCAATGTGCTGTTTGACGGGGTGAGCCGAACCAGAGAG GCAGCCCTCGACGCCCAGTTTCTGGTTTTGGCTTCTGATCTGGGTAAAGAAAAAGCAAAGCAGCTAAACT CGGATATGAGCTTTTTTAATCACGTGGCCTTCTGTGAGTTGCTGTTGGTGTTTGTGGGCCTCAACTGGAT GGAGGAGGAGTGTGAGGAATTGAGCGAGTGCGATGAAAGCATAGCGCTTTCCTTCTGGAACATGCTGCAC AAGGAAGCGACGGCCTGGATGCTGCAAGCCGAAACGTTCCATTTCATTTTTGGTTCATTTAAGGCAGAAC GTTCTGCACGAAAGCCCCGGCAGGAACATCACAAACGAGCTTGCAAAATGGAAGGAAATGGGGATATGCC TACAAAGTTGAGGAAGCTGGATGTGCATGCTAATCAGGAGACGACAGAAAAAGAAGTGGAGAGAATCTTG GGATTGCTGCAAACCTACTTTCAAAAGTACCCCGATACTCCAGTGTCGTATTTTGAATTTGTGATCGATC CAAACTCATTCTCTCGCACCGTGGAGAATATCTTCTACGTTTCTTTTATTATTAGGGATGGCTTTGCAAG AATAAGGCTTGACCAAGACAGACTGCCAATTCTCGAGCCAACCAATGTTAACCAGGTGGATGAAGAAAAT GACTCGTGTTCTTACTGCAGGAAACAAGGAGTTATATCTTTGAGTTTACAGGACTGGAAGAATATTGTCT CCACTTTTGAAATTTCAGAGGCTATGATCAAAAATTCATAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

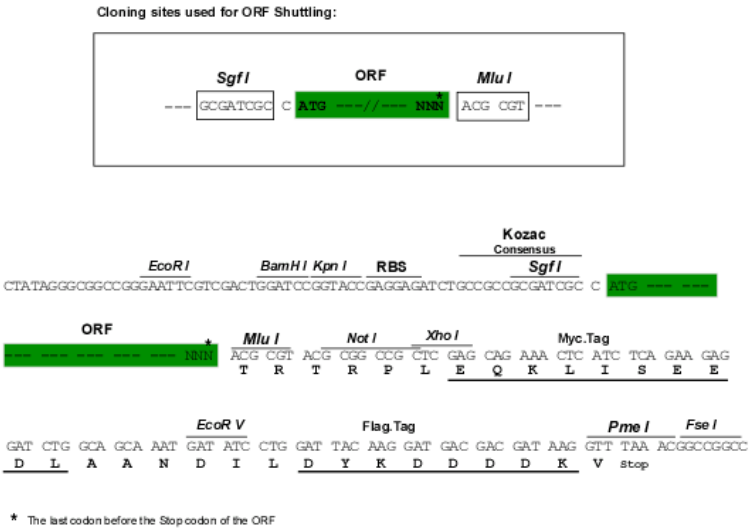
>RR201693 representing NM_001044304
Red=Cloning site Green=Tags(s)

MSEEKCSLTGGEEKGEELARSLAWQHLVKQAEEDDDDDEEALKKEEEEEEEEEEDEEEEEGPDSSSDD
LSPEAPCMHPDLLELAVDREKCRSIRRQYRQLIYTVQQNREDIVNTASDSLTEALEEANVLFDGVSRTRE
AALDAQFLVLASDLGKEKAKQLNSDMSFFNHVAFCELLLVFVGLNWMEEECEELSECDESIALSFWNMLH
KEATAWMLQAETFHFIFGSFKAERSARKPRQEHHKRACKMEGNGDMPTKLRKLDVHANQETTEKEVERIL
GLLQTYFQKYPDTPVSYFEFVIDPNSFSRTVENIFYVSFIIRDGFARIRLDQDRLPILEPTNVNQVDEEN
DSCSYCRKQGVISLSLQDWKNIVSTFEISEAMIKNSY

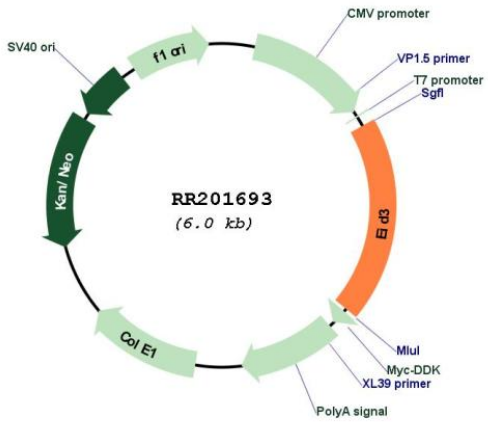
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001044304

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ORF Size:	1161 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:	NM_001044304.1, NP_001037769.2
RefSeq Size:	1349 bp
RefSeq ORF:	1164 bp
Locus ID:	691688
UniProt ID:	Q4V8G2
Cytogenetics:	7q13
MW:	44.8 kDa
Gene Summary:	Tissue-specific component of the SMC5-SMC6 complex, a complex involved in repair of DNA double-strand breaks by homologous recombination. The complex may promote sister chromatid homologous recombination by recruiting the SMC1-SMC3 cohesin complex to double-strand breaks. The complex is required for telomere maintenance via recombination and mediates sumoylation of shelterin complex (telosome) components (By similarity). [UniProtKB/Swiss-Prot Function]

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