

Product datasheet for **MR209325**

EII (NM_007924) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EII (NM_007924) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EII
Synonyms:	EII1; Men
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209325 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGCGCTGAAGGAGGCTAGGAGTTACGGTTGTCTGTGGCGCGTGAGCGACGGCAGCAGGGTGT
 CGGTGTTCCACGTGAAGCTCACCAGACAGTGCTTTGAAGGCTTTTGAGAGCTACCGGGCCACCAGGATTC
 TGTGTCACTGAGACCTTCCATCCGATTTGAAGGAAGCCAAGGACACATCTCTATACCCAGCCTGACTGC
 CCAGAGGAGGTGCGGGCCTTCTCCTTCTACCTCTCCAATATTGGCCGCGACAGCCCTCAGGGCAGCTTTG
 ATTGCATCCAACAATATGTATCCAGCCATGGGGATGTACACCTGGACTGCCTGGGCGAGCATCCAGGACAA
 GGTACAGTGTGTCTACTGATGACTCCTACCAGAAAGCAGCAGAGCATGGCAGAGCAGAGGAGGAG
 ACTCGGAGCCGAAGTCCATCGTCATTAAGGCTGGAGGCCGATACATGGGAAAAAGGTTTCAGTTTCGGA
 AGCCAGCGCCAGGGCAGCTGATGCAGTACCCTCCGGAAGCGTGTACCCCATTAACCTGGCAAGTGC
 CATCAGAAAGAGCAGTGGGAGTGGAGCCAGCAGTGTGGTACAGAGGCCCTCCGAGATCGGGTGTACAC
 CTCTGGCCCTGAGGCCCTACAGGAAGGCTGAGCTGTCTGCTGCGTTGCAGAAAGGATGGGTTGACACAGG
 CAGACAAGGACACCCTGGACAGCCTGCTGCAGCAGGTGGCCAGTGTGAACCCCAAGGATGGCACGTGCAC
 GCTGCAGGACTGCATGTACAAAAGCCTGCAGAAGGACTGGCCCGCTACTCTGAGGGGGACCGGCAGCTG
 CTGAAGCGCATGCTCATGCGGAAGCTGTGTGAGCCACAGAATGCCACTACAGACTCCAGCCCGCCCGAG
 AGCATGGACGCTCTGCCTCACCTCTCAGAAACGGCTACAGACTTCATTGACCCCTGGCCAGCAAGAA
 GCCCGGATCTCACATTTACACAGCGAGCACAAACCCACCCTCAATGGCAAACGGGTGCCCCCAATGGC
 CATGAGACACTGTCTGCTGCTCCAGGACCCACCCATCAGACACCCTCAGCTCTAGCCATCTGCCCCAC
 GGCTGGAGCCCCAAGGACCCACGACCCCTAGCTGATGTCAGTAAATGACCTAGTTCACAGTACCCAGGA
 CTACAAGCACAGGAAGCCACCCAGCTCCAGCACCCCATCTTGGTCTTCCCTGCTGACGGACTTTCCT
 CAGGCTGAGCAACCTACTAGCTCCTCACACACCACAGCCGACCAAGAAGAAGTCCAAGAAGCACAAAG
 ACAAGGAGCGGCCCTGAAGAAAGGCCCCCGCCACAGCCTGATGCACCTACTGCCCTGCACTACC
 GCCAGATGCCCGAGTCTGAATGGAGCCTGTGACAATGAACCCACATCCTCGTCAGAGACCCCGACTAT
 TTGCTGAAATACCCAGCCATCTCGTCGTGAGAGCAGCTCAGAGTACAAGAATGACTTCAATGCTGAGT
 ACAGCGAGTACCGCAGTCTGCACGCGAGGATCGAGCAGATCACCCGAGGTTACCCAGCTTGTATGCACA
 GCTCAGACAGCTGAGCCAGGCTCTGATGAGTACGAGACAACCCGTGGGCAAATTTTTCAGGAATACAGG
 AAAATCAAAAAGACCAACCAACTACAGCTGTGAGAAGCGACGCTGCGAATACCTGCACCGCAAGCTGG
 CGCACATTAAGAGGCTCATCGCAGAGTATGACCAGCGGCAGCTTCAGGCCTGGCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209325 protein sequence
 Red=Cloning site Green=Tags(s)

MAALKEARSYGLSCGRVSDGSRVSVFHVKLTDALKAFESYRAHQDSVSLRPSIRFEGSQGHISIPQPD
 PEEVRAF SFYLSNIGRDS PQSFDCIQYVSSHGDVHLDCLGSIQDKVTVCATDSDYQKARQSMQAEE
 TRSRSAIVIKAGGRYMGKKVQFRKPAPGAADAVPSRKRATPINLASAIRKSSGSGASSVVQRPFDRV
 LLALRPYKAELLLRLQKDGLTQADKDTLDSLLQQVASVNPKDGCTLQDCMYKSLQKDWPGYSEGDR
 LKRMLMRKLCQPQNATDSSPPREHGRSASPSQKRPTDFIDPLASKKPRI SHFTQRAQPTLNGKLGAP
 NGHETLLPAPGPTPSDTLSSSHLPPRLEPPRTHDPLADVSNLGHSTQDYKHQEATPAPAPHLGLPLLD
 FFPQAEQPTSSSHTHSRPKKSKKHKDKERPPPEERPPAPQPDAPTAPALPPDAPGLNGACDNEPTSS
 SETPDYLLKYPATSSSEQRSYKNDFNAEYSEYRSLHARIEQITRRFTQLDAQLRQLSQGSDEYETTR
 GQILQEYRKIKKTNNTNYSCEKRRCEYLHRKLAHIKRLIAEYDQRQLQAWP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_007924

ORF Size: 1809 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

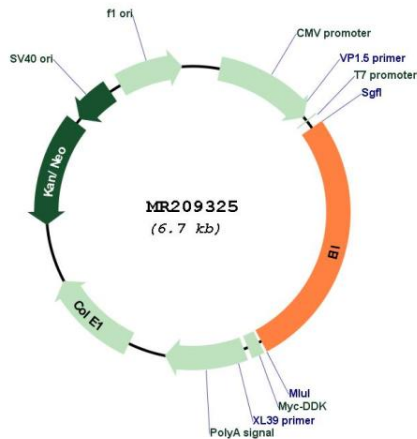
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_007924.1](#)

RefSeq Size: 3085 bp
 RefSeq ORF: 1809 bp
 Locus ID: 13716
 UniProt ID: [O08856](#)
 Cytogenetics: 8 B3.3
 MW: 67.1 kDa

Gene Summary: Elongation factor component of the super elongation complex (SEC), a complex required to increase the catalytic rate of RNA polymerase II transcription by suppressing transient pausing by the polymerase at multiple sites along the DNA. Specifically required for stimulating the elongation step of RNA polymerase II- and III-dependent snRNA gene transcription. ELL also plays an early role before its assembly into in the SEC complex by stabilizing RNA polymerase II recruitment/initiation and entry into the pause site. Required to stabilize the pre-initiation complex and early elongation. Specifically required for stimulating the elongation step of RNA polymerase II- and III-dependent snRNA gene transcription (By similarity). Elongation factor component of the little elongation complex (LEC), a complex required to regulate small nuclear RNA (snRNA) gene transcription by RNA polymerase II and III (PubMed:22195968).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209325