

Product datasheet for **MR215768**

EII2 (NM_138953) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EII2 (NM_138953) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EII2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>MR215768 representing NM_138953
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGCGGGGGGGCTGCGGGACTGCGGGAGGAGCAGCGGTACGGGCTGGCGTGGGGCGGCTGGGGC
AGGACAACATCACCGTGCTGCATGTGAAGCTCACCGAGACGGCGATCCGGGCGCTGGAGACTTACCAGAG
CCACAAGAATTTAATTCCTTTAGACCTTCAATTCAGTTCCAAGGACTCCAAGGGCTTATGAAAATTCCTC
AAAAATGATCCCTTCAATGAAGTCCAGAACTTTAACTTCTACTTGTCAAACGTGGGAAGAGATAATCCTC
AGGGCAGCTTTGACTGCATCCAGCAAACACTCTCTAGCTCTGGAGCCTCCAGCTCAATTGCCTGGGATT
TATACAAGATAAAAATTACAGTGTGTGCAACAAATGATTCTATCAGATGACGCGAGAAAGAATGACCCAG
GCAGAGGAGGAATCCCGTAATCGAAGCACAAAAGTTATCAAACCCGGTGGACCATATGTAGGAAAAGAG
TGCAAATTCGTAAGCTCCTCAAGCCATCTCGGACACAGTGCCTGAGAGGAAAAGGTCAACGCCCATGAA
CCCTGCAATACAATTCGAAAGATGCATAGTGGCAACAGTGTCTCTCAGAGGCCATACAGGGACAGGGTC
ATCCATTTACTGGCACTAAAAGCCTACAAGAACTGAGCTGCTTCTCGACTGCAGAAAGATGGTGCA
ATCAAAAAGACAAGAACTCCTTGGGAGCAATTCTGCAACAGGTGGCCAATCTGAATCCTAAGGACCTCTC
CTATACTTTAAAGGATTATGATTTAAGGAGCTCCAGCGAGACTGGCCAGGTTACAGTGAGACAGACAGA
CAGACATTGGATTTGGTGTCTCTAGAAAATAAATCCATCTCAGAAATGCTAGCACCAGCCGGTCAGAGT
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TCCTTTAATGAACAAAAAGCTCGAATATCTCACCTAACAAACAGAGTCCCACCGACATTAATGGTTAT
TTGAATCCCACCAGTGAAAAATCTGTGCAGGCCCTCTACCACCCCTGCAGCTGCTGCCATCCCCACCC
TCTCGCGCTGCCTTCAACCCACCTGCCTGTCTCCAATCCTCCTCAGACTGTAATTCCTCAACTCCAATTC
CCCTAGCACTCCAGAAGCCTGGGGACTCAAGACCTGCCTGTTGACAGTTTTAGTCAAAATGGTAGCATC
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TAAAGTGTCCAAAGCCATGGAAGAAGAGCATCCAGTGTCTCACAAAAGTCCAAAAGAAGTCTAAAAA
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AGAGAAGAACTGCCAAGCTGAGTAATGCCAGTCCAAATCCCAATGAAGGAGTTAAGAAGGGTGCACAG
CCTCCATGGAGCCTTCTCAGCACTTGAATCCCAGATTATTTGATAAAATATATTGCTATTGTCTCTTA
TGAGCAACGCCAGAATTACAAGGATGACTTCAATGCTGAGTATGATGAATACAGAGCTTTGCATGCAAGG
ATGGAGACTGTAGCCAGGAGATTTATTAAGTGGATGCACAACGAAAACGCTTTCTCCGGTTCAAAG
AGTACCAGAATGTTTCATGAAGAAGTCTTACAGGAATATCAGAAGATCAAGCAGTCCAGTCCCAATTACCA
TGAAGAAAAATACAGATGTGAATATCTTCATAACAAGCTGGCTCACATCAAAAGACTAATAGGTGAATTT
GACCAACAGCAAGCAGAGTCATGGCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR215768 representing NM_138953
Red=Cloning site Green=Tags(s)

MAAGGAAGLREEQRYGLACGRLGQDNITVLHVKL TETAIRALETYQSHKNLIPFRPSIQFQGLQGLMKIP
 KNDFNEVQNFNFYLSNVGRDNPQGSFDCIQQTLSSSGASQLNCLGFIQDKITVCATNDSYQMTREMTQ
 AEEESRNRSTKVIKPGGPYVVKRVQIRKAPQAI SDTVPERKRSTPMNPANTIRKMHSGNSVSQRPYRDRV
 IHLLALKAYKKPELLARLQKDGVNQKDKNSL GAILQQVANLNPKDL SYTLKDYVFKELQRDWPYSETDR
 QTLDLVL SRKLNPSQNASTSRSE SPLCSSKDAASSPQKRPLD SDFIDPLMNNKARI SHLTNRVPPTLNGY
 LNPTSEKSCAGLLPPPAAAAIPTLSPLPSTHLPVSNPPQTVNSNSNSPSTPEGLGTQDL PVDFSQNGSI
 FEDQQEKYTSRTCLETLPPSSALLKCPKPMEEHPVSHKSKKSKKHKEKDQIKKLDIETMEEKEEDLQ
 REETAKLSNASPNEGVEGCTASMEPSSALELPDYL IKYIAI VSYEQRQNYKDDFNAEYDEYRALHAR
 METVARRFIKLD AQRKRLSPGSKEYQNVHEEVLQEYQKIKQSSPNYHEEKYRCEYLHNKLAHIKRLIGEF
 DQQAESWH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_a07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_138953

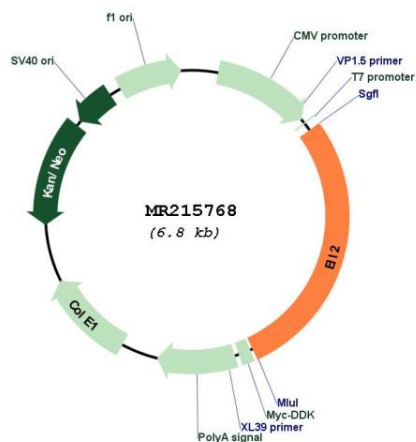
ORF Size: 1917 bp

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:	<ol style="list-style-type: none">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:	<u>NM_138953.2</u> , <u>NP_620403.2</u>
RefSeq Size:	3660 bp
RefSeq ORF:	1920 bp
Locus ID:	192657
UniProt ID:	<u>Q3UKU1</u>
Cytogenetics:	13 C1
MW:	72.6 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. Component of the little elongation complex (LEC), a complex required to regulate small nuclear RNA (snRNA) gene transcription by RNA polymerase II and III (By similarity). Plays a role in immunoglobulin secretion in plasma cells: directs efficient alternative mRNA processing, influencing both proximal poly(A) site choice and exon skipping, as well as immunoglobulin heavy chain (IgH) alternative processing. Probably acts by regulating histone modifications accompanying transition from membrane-specific to secretory IgH mRNA expression.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215768