

## Product datasheet for **MC220029**

### **EII2 (NM\_138953) Mouse Untagged Clone**

#### **Product data:**

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



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**Fully Sequenced ORF:** >MC220029 representing NM\_138953  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCGGGGGGGCTGCGGGACTGCGGGAGGAGCAGCGGTACGGGCTGGCGTGGGGCGGCTGGGGC  
 AGGACAACATCACCGTGCATGTGAAGCTCACCGAGACGGCGATCCGGGCGCTGGAGACTTACCAGAG  
 CCACAAGAATTTAATTCCTTTAGACCTTCAATTCAGTTCCAAGGACTCCAAGGGCTTATGAAAATTC  
 AAAATGATCCCTTCAATGAAGTCCAGAACTTTAACTTCTACTTGTCAAACGTGGGAAGAGATAATCCTC  
 AGGGCAGCTTTGACTGCATCCAGCAAACACTCTAGCTCTGGAGCCTCCAGCTCAATTGCCTGGGATT  
 TATACAAGATAAAATTACAGTGTGTGCAACAAATGATTCTATCAGATGACGCGAGAAAGAAATGACCCAG  
 GCAGAGGAGGAATCCCGTAATCGAAGCACAAAAGTTATCAAACCCGGTGGACCATATGTAGGAAAAGAG  
 TGCAAATTCGTAAGCTCCTCAAGCCATCTCGGACACAGTGCCTGAGAGGAAAAGGTCAACGCCCATGAA  
 CCCTGCAATACAATTCGAAAGATGCATAGTGGCAACAGTGTCTCTCAGAGGCCATACAGGGACAGGGTC  
 ATCCATTTACTGGCACTAAAAGCCTACAAGAACTGAGCTGCTTCTCGACTGCAGAAAGATGGTGTCAT  
 ATCAAAAAGACAAGAACTCCTTGGGAGCAATTCTGCAACAGGTGGCCAATCTGAATCCTAAGGACCTCTC  
 CTATACTTTAAAGGATTATGATTTAAGGAGCTCCAGCGAGACTGGCCAGGTTACAGTGAGACAGACAGA  
 CAGACATTGGATTTGGTGTCTCTAGAAAATAAATCCATCTCAGAAATGCTAGCACCAGCCGGTCAGAGT  
 CTCCCCTGTGTTCCAGCAAAGACGCTGCCTCATCTCCTCAGAAACGACCTTTGGATTGAGATTTCAATTGA  
 TCCTTTAATGAACAAAAAGCTCGAATATCTCACCTAACAAACAGAGTCCCACCGACATTAATGGTTAT  
 TTGAATCCACAGTGAAAAATCTGTGCAGGCCTCCTACCACCCCTGCAGTGTCTGCCATCCCCACCC  
 TCTCGCCGCTGCCTTCAACCCACCTGCCTGTCTCCAATCCTCAGACTGTAATTTCAACTCCAATTC  
 CCTAGCACTCCAGAAGGCCTGGGGACTCAAGACCTGCCTGTTGACAGTTTTAGTCAAAATGGTAGCATC  
 TTTGAGGACCAGCAAGAAAAATATACCTCAAGGACTTGTCTGAAACATTACCCCCAGCTCAGCTCTGC  
 TAAAGTGTCCAAAGCCATGGAAGAAGAGCATCCAGTGTCTCACAAAAGTCCAAAAGAAGTCTAAAAA  
 ACACAAGGAAAAGGACCAATAAAGAACTTGACATTGAGACCATGGAGGAGAAGGAGGAAGACCTTCAG  
 AGAGAAGAACTGCCAAGCTGAGTAATGCCAGTCCAAATCCCAATGAAGGAGTTAAAGAAGGTTGCAAG  
 CCTCCATGGAGCCTTCTCAGCACTTGAATCCCAGATTATTTGATAAAATATATTGCTATTGTCTCTTA  
 TGAGCAACGCCAGAATTACAAGGATGACTTCAATGCTGAGTATGATGAATACAGAGCTTTGCATGCAAGG  
 ATGGAGACTGTAGCCAGGAGATTTATTAAGTGGATGCACAACGAAAACGCTTTCTCCGGTTCAAAG  
 AGTACCAGAATGTTGATGAAGAAGTCTTACAGGAATATCAGAAGATCAAGCAGTCCAGTCCCAATTACCA  
 TGAAGAAAAATACAGATGTGAATATCTTCATAACAAGCTGGCTCACATCAAAAGACTAATAGGTGAATTT  
 GACCAACAGCAAGCAGAGTCATGGC**ACTAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_138953

**Insert Size:** 1920 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).

**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\\_138953.2](#), [NP\\_620403.2](#)

**RefSeq Size:** 3660 bp

**RefSeq ORF:** 1920 bp

**Locus ID:** 192657

**UniProt ID:** [Q3UKU1](#)

**Cytogenetics:** 13 C1

**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]