

Product datasheet for **MG215768**

EII2 (NM_138953) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EII2 (NM_138953) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EII2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215768 representing NM_138953
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGGGGGGGCTGCGGGACTGCGGGAGGAGCAGCGGTACGGGCTGGCGTGGGGCGGCTGGGGC
 AGGACAACATCACCGTGCTGCATGTGAAGCTCACCGAGACGGCGATCCGGGCGCTGGAGACTTACCAGAG
 CCACAAGAATTTAATTCCTTTTAGACCTTCAATTCAGTTCCAAGGACTCCAAGGGCTTATGAAAATTC
 AAAATGATCCCTTCAATGAAGTCCAGAACTTTAACTTCTACTTGTCAAACGTGGGAAGAGATAATCCTC
 AGGGCAGCTTTGACTGCATCCAGCAAACACTCTCTAGCTCTGGAGCCTCCAGCTCAATTGCCTGGGATT
 TATACAAGATAAAATTACAGTGTGTGCAACAAATGATTCTATCAGATGACGCGAGAAAGAAATGACCCAG
 GCAGAGGAGGAATCCCGTAATCGAAGCACAAAAGTTATCAAACCCGGTGGACCATATGTAGGAAAAGAG
 TGCAAATTCGTAAGCTCCTCAAGCCATCTCGGACACAGTGCCTGAGAGGAAAAGGTCAACGCCCATGAA
 CCCTGCAATACAATTCGAAAGATGCATAGTGGCAACAGTGTCTCTCAGAGGCCATACAGGGACAGGGTC
 ATCCATTTACTGGCACTAAAAGCCTACAAGAACTGAGCTGCTTCTCGACTGCAGAAAGATGGTGCA
 ATCAAAAAGACAAGAACTCCTTGGGAGCAATTCTGCAACAGGTGGCCAATCTGAATCCTAAGGACCTCTC
 CTATACTTTAAAGGATTATGATTTAAGGAGCTCCAGCGAGACTGGCCAGGTTACAGTGAGACAGATAGA
 CAGACATTGGATTTGGTGTCTCTAGAAAATAAATCCATCTCAGAAATGCTAGCACCAGCCGGTCAGAGT
 CTCCCCTGTGTTCCAGCAAAGACGCTGCCTCATCTCCTCAGAAACGACCTTTGGATTGAGATTTCAATTGA
 TCCTTTAATGAACAAAAAGCTCGAATATCTCACCTAACAAACAGAGTCCCACCGACATTAATGGTCAT
 TTGAATCCCACAGTGAATAATCTGTGACGGCCTCCTACCACCCCTGCAGTGTCTGCCATCCCCACCC
 TCTCGCGCTGCCTTCAACCCACCTGCCTGTCTCCAATCCTCCTCAGACTGTAATAATCCAATCAATTC
 CCCTAGCACTCCAGAAGGCTGGGGACTCAAGACCTGCCTGTTGACAGTTTTAGTCAAAAATGGTAGCATC
 TTTGAGGACCAGCAAGAAAAATATACCTCAAGGACTTGTCTGAAACATTACCCCCAGCTCAGCTCTGC
 TAAAGTGTCCAAAGCCATGGAAGAAGAGCATCCAGTGTCTCACAAAAGTCCAAAAAGAAGTCTAAAAA
 ACACAAGGAAAAGGACCAATAAAGAACTTGACATTGAGACCATGGAGGAGAAGGAGGAAGACCTTCAG
 AGAGAAGAACTGCCAAGCTGAGTAATGCCAGTCCAAATCCCAATGAAGGAGTTAAAGAAGGTTGCACAG
 CCTCCATGGAGCCTTCTCAGCACTTGAATCCCAGATTATTTGATAAAAATATATTGCTATTGTCTCTTA
 TGAGCAACGCCAGAAATACAAGGATGACTTCAATGCTGAGTATGATGAATACAGAGCTTTGCATGCAAGG
 ATGGAGACTGTAGCCAGGAGATTTATTAAGTGGATGCACAACGAAAACGCTTTCTCCAGTTCAAAGG
 AGTACCAGAATGTTTCATGAAGAAGTCTTACAGGAATATCAGAAGATCAAGCAGTCCAGTCCCAATACCA
 TGAAGAAAAATACAGATGTGAATATCTTCATAACAAGCTGGCTCACATCAAAAGACTAATAGGTGAATTT
 GACCAACAGCAAGCAGAGTCATGGCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG215768 representing NM_138953
 Red=Cloning site Green=Tags(s)

MAAGGAAGLREEQRYGLACGRLGQDNITVLHVKL TETAIRALETYQSHKNIIPFRPSIQFQGLQGLMKIP
 KNDPFNEVQNFNFYLSNVGRDNPQGSFDCIQQLSSSGASQLNCLGFIQDKITVCATNDSYQMTRETRMTQ
 AEEESRNRSTKVIKPGGPYVVKRVQIRKAPQAIISDTVPERKRSTPMNPANTIRKMHSGNSVSRPYRDRV
 IHLLALAKYKPELLARLQKDGVNQKDKNSLGAILQQVANLNPKDLSYTLKDYVFKELQRDWPYSETDR
 QTLDLVLSRKLNPSONASTSRSESPSCSKDAASSPQKRPLDSDFIDPLMNNKARISHLTNRVPPTLNH
 LNPTSEKSCAGLLPPAAAAIPTLSPLPSTHLPVSNPPQTVNSNSNSPSTPEGLGTQDLPVDSFSQNGSI
 FEDQKEKYSRTCLETLPPSSALLKCPKPMEEHPVSHKKS KKKKSKKHKEKDQIKKLDIETMEEKEEDLQ
 REETAKL SNASPNNEGVEGECTASMESPSSALELPDYLIKYIAIVSYEQRQNYKDDFNAEYDEYRALHAR
 METVARRFIKLDQRKRLSPGSKEYQNVHVEVLQEQYKIKQSSPNYHEEKYRCEYLHNKL AHKRLIGEF
 DQQQAESWH

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



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:
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

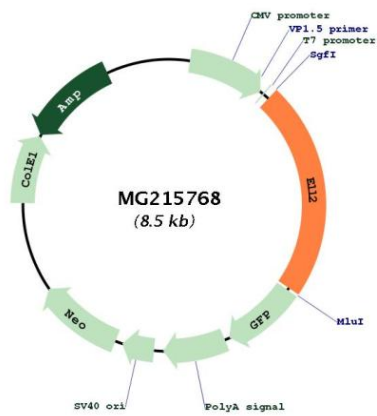
Locus ID: 192657

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]

Product images:



Circular map for MG215768