

Product datasheet for **MG206168**

EII3 (NM_145973) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EII3 (NM_145973) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EII3
Synonyms:	A930015D22Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG206168 representing NM_145973 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGGGACCCAGGAAGCTCTGAGTGGGAAAATGCGGCTCCTCTTCACCCCGCTGCTCGGACCAGCC
TCCTGATGCTAAGGCTCAACGAGGCGCGCTGCGGCATTGCAAGAGTGTGAGCAGCAACAGGTACGGCC
AGTGATCGCTTCCAAGGCCACCGAGGGTACCTAAGGTTCCAGGCCGGATGGTCTGCCTTTCTCC
TTCATAGTATCCAGTGTGGCCAAGAGGGCACTAATGGTGGCTTGGACCTTGTGTACCAACGCTTAGGCA
GATCTGGGCCGAAGTGTCTCCACTGCCTGGGCTCCCTTAGAGAGCGACTACTATTTGGCAGCCATGGA
TACTATCCCAGCTCCACTGTTAGCTCAGGAACACCTGACTGAAGTACCAGAGAGTCTGAGAGCTGGCAG
GACTGAGAGCAACCTGAAGGCCATCCCAGCTGGCACCAGATGAGGTGTCTGACCCACTGGCAAGCC
ACCATGAACAGTCACTCCAGGATCCTCCAGTGAAGCCATGGCACAATGGGAAAATGAGGAACCACTTA
TCTTCCAAGCAGAGAGCCTGATCAGTCCCTGCTTTCCCTGCTAGCCAGAAACGCTGGACAAGAAACGT
TCAGCACCTATAACCACTGAAGAACCAGAGGAAAAGAGGCTCAGAGCTCTGCCTTAGCCTCAAGTCCAC
TACAAGGGCTAGCAAATCAGGACTCACAAGAGGGAGAAGACTGGGCAAGATGAAGATGAAGAGGGAGA
TGAAGATGGAGATTCCAGGCTTGAAGCAGAGCCTCTCAGCTCCATCAGCCTCTGAATCCCCAAGCCCTGAG
GAGGTACCAGATTATCTCTGCAATACAGAGCCATCCACAGCAGAGCAGCAACAGGCCATGAGCAGC
ACTTTGAGACCGACTATGCTGAGTACCGATTCTGCATGCTCGAGTTGGGGCTGCAAGCCAGAGGTTCCAC
AGAGCTGGGGCAGAGATCAAGAGACTTCAAGGAACTCCAGAACACAAGGTGCTGGAAGACAAGATA
GTCCAGGAGTATAAAAAGTTCAAGAAAGCGGTATCCAAGTTACAGGGAGGAGAAGCATCGCTGTGAGTACC
TGCATCAGAACTGTCCACATTAAGGTTCTATCCTGGAATTTGAGGAGAAGAACAGGGGCAGC

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG206168 representing NM_145973
 Red=Cloning site Green=Tags(s)

MEGTQEALSGKMRLFLTPAARTSLLMLRLNEAALRALQECQQQVVPVIAFQGHRYLRFPGPGWSCLFS
 FIVSQCGQEGTNGGLDLVYQRLGRSGPNCLHCLGSLRRLTIWAAMDTIPAPLLAQEHLTEGTRESESWQ
 DTGDEPEGHPQLAPDEVSDPLASHHEQSLPGSSSEPMAQWEMRNHTYLPSPREPDQSLSPASQKRLDKKR
 SAPITTEEPEEKRLRALPLASSPLQGLANQDSQEGEDWGQDEDEEGDEDGDSRLEQSLSAPSASESPSPE
 EVPDYLLQYRAIHSTEQQQAYEQDFETDYAEYRILHARVGAASQRFTELGAEIKRLQRGTPEHKVLEDKI
 VQEKYKFRKRYPSYREEKHRCEYLHQKLSHIKGLILEFEEKNRGS

TRTRPLE - GFP Tag - V

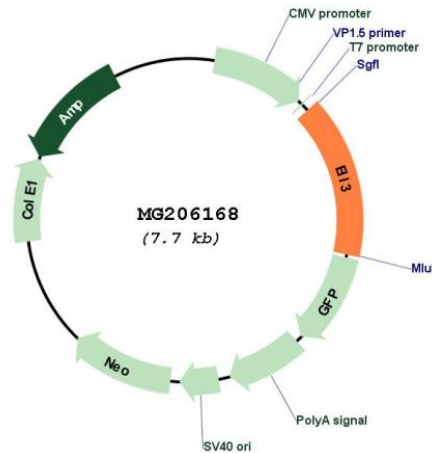
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_145973

ORF Size:	1185 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:	NM_145973.2 , NP_666085.2
RefSeq Size:	1745 bp
RefSeq ORF:	1188 bp
Locus ID:	269344
UniProt ID:	Q80VR2
Cytogenetics:	2 E5
Gene Summary:	Enhancer-binding elongation factor that specifically binds enhancers in embryonic stem cells (ES cells), marks them, and is required for their future activation during stem cell specification. 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. Does not only bind to enhancer regions of active genes, but also marks the enhancers that are in a poised or inactive state in ES cells and is required for establishing proper RNA polymerase II occupancy at developmentally regulated genes in a cohesin-dependent manner. Probably required for priming developmentally regulated genes for later recruitment of the super elongation complex (SEC), for transcriptional activation during differentiation. Required for recruitment of P-TEFb within SEC during differentiation. Probably preloaded on germ cell chromatin, suggesting that it may prime gene activation by marking enhancers as early as in the germ cells. Promoting epithelial-mesenchymal transition (EMT).[UniProtKB/Swiss-Prot Function]