

Product datasheet for **MG204486**

Epsti1 (NM_029495) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Epsti1 (NM_029495) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Epsti1
Synonyms:	2310046K10Rik; 5033415K03Rik; BRES11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204486 representing NM_029495 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTACACCCGCAGTAAGGTGGTGGGCCAGGCTTGGCACTTCCTCCATCTCTCGGGACCACGCTGGAG
CTGGGCAGCGCAGGGAGCTGGGCTTGCAGCAAACCGGAGACAGAGTTTGGAGGTGGCAGCTCCCGAGGG
CCCCAAGATGGAGAGGCAGGGGCATGCTGACCAGGGAAGCGCAGGCACATACACCCTGATAGCACCAAAC
GAGAGCAGAAGGCAGAAGATACAGAGAATTGCTGAGCAAGAAGTGGCAGACCTGGAGAGATGGAAGCAAC
AGAACAGGGCAAACCAAGTCTACTTGGTGCCACAACGGCTGGGTGGAAGCCAGTCTGAGGCTGAAGTCAG
ACAGAAAACAACAGCTGCAACAGATGCGTTCTAAATACCAGCAAAGCTCAAGAGGGATGAATCTATTTCGA
ATCAGGAAGGAAGCTGAGGAAGCAAGTTCAAAAAATGAAAGCAATCCAGAGGGAGAAGAGTAATAAAC
TAGAGGAGAAAAAGCAACTTCAAGAAGACATCAGAAGAGCCACATTTTCGAGAGCATCATCAGTCCAAAAAC
GGCTGAGCTCTTGGAGCAGACTGGACACAGAGCGGAGAAACAGAAGTGCCTGTCTGATTGCTCCTCCTGCC
ACCCAGTCTCGAGATGGAAACTTCCAGTCTGCTTAGAGATCCCAGCTGGGCCGGCAGCCAAGCACACA
GGGATTCTCCGCAGAAGGAAGACAACCCAGGCTGCAAAAGACGAGGGATGGACATCAGAAGAATAAATT
ACTGAAAATAAAGGACAGCACCAGGAGGAAGAAAGAGCCCAATCCATCAAGCTGAACACTGGAGGGTA
AATAATGCTTTTCTGGACCGACTCCAAGGCAAAAGTCAACCAGGTGGCCTCGAGCAGTCTGGAGGCTGTT
GCAATATGAATAGTACTGACAGCTGGGGTATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204486 representing NM_029495
Red=Cloning site Green=Tags(s)

MYTRSKVVGPGLGTSSISRDHAGAGQRRELGLQNNRRQSLEVAAPGPKMERQGHADQGSAGTYTLIAPN
 ESRRQKIQRIAEQELADLERWKQNNRAKPVYLVPQRLGGSQSEAEVRQKQQLQQMRSKYQQKLKRDESIR
 IRKEAEEAKFQKMKAIQREKSNKLEKKQLQEDIRRATFREHHQSKTAELLSRLDTERRNRSACL IAPPA
 TQSSRWKLPVLLRDP SWAGSQAHRDSPQKEDNPRLOKTRDGHQKNKLLLETKGQHQQEERAQIHQA EHWRV
 NNAFLDRLQGKSQPGGLEQSGGCCNMNSTDSWGI

TRTRPLE - GFP Tag - V

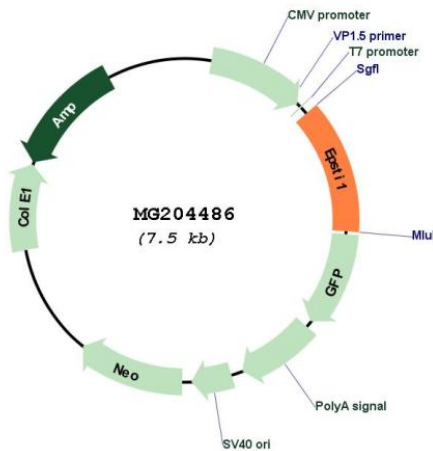
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_029495

ORF Size: 942 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_029495.2
RefSeq Size:	1738 bp
RefSeq ORF:	945 bp
Locus ID:	108670
UniProt ID:	Q8VDI1
Cytogenetics:	14 D3
Gene Summary:	Plays a role in M1 macrophage polarization and is required for the proper regulation of gene expression during M1 versus M2 macrophage differentiation (PubMed:29217193). Might play a role in RELA/p65 and STAT1 phosphorylation and nuclear localization upon activation of macrophages (PubMed:29217193).[UniProtKB/Swiss-Prot Function]