

Product datasheet for **MG203345**

Emc10 (NM_197991) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Emc10 (NM_197991) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Emc10 |
| Synonyms: | 2310044H10Rik; 5430410O10Rik; Inm02; Mirta22 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG203345 representing NM_197991 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCCGGGTGCCGGGTGACCCGGCTGTTAGTGCTCTTGCTGATGGTAGCCGGCTCCTAGCA
GAGCCCGAGGCAGCGGTGCCGGTCCGGGCTCCGCGCGTGGGACCGGGCCGATGGCCGTGAAGCTGA
GGGCTGTGGCACCCTGGCTTTGCTGCTGGAGCATTCAATTTGAGCTCGGTGATGGAGCCAACCTCCAGAAG
CGAGGCTCGTGTCTGGAACCAGCAGGATGGCACCTGTGGCAACACAGCGACAGCTCAGTGAGGAGG
AGCGTGGCCGACTCCGGATGTGGCTGTGTCAATGGCCTCTACAGGGTCCGGTCCCGAGCGGCCTGG
GACACTTGATGGTTCAGAAGCTGGCGGCATGTGTCTTCCTTCGTCACAGCGTGCCTCCTGGTGGAGTCG
CACCTTCGGACCACTGACCTTGACGCTGGATGTGGCTGGCAACGTGGTGGCCCTGTCTGTGGTGGTGT
ACCCTGGGGGCTGCCGGGCTCCGAGGTGGAAGATGAGGACCTGGAGCTGTTCAATACATCTGTGCAGCT
GCGGCCTCCAGCACTGCTCCAGGCCCGAGACTGCCGCCTTCATTGAGCGCCTGGAAAATGGAGCAGGCC
CAGAAGGTAAGAACCACAGGAGCAGAAGTCTTTCTTTGCCAAATACTGGATGTACATCATTCCAGTTG
TGCTGTTCTCATGATGTAGGAGCGCCGACCGGGGGCCAGGGTGGCGGTGGGGCGGGGCGAGCAG
CCGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203345 representing NM_197991
 Red=Cloning site Green=Tags(s)

MVAAGAGVTRLLVLLLMVAAAPSRARGSGCRVGSARGTGADGREAECCGTVALLLEHSFELGDGANFQK
 RGSLLWNQDGTLSATQRQLSEEERGLRDVAAVNGLYRVRVPRRPGTLDGSEAGGHVSSFVPACSLVES
 HLSDDLTLHVDVAGNVVGLSVVVYPGGCRGSEVEDEDLELFNTSVQLRPPSTAPGPETAFAFIERLEMEQA
 QKAKNPQEQKSFFAKYWMYIIPVVLFLMMSGAPDAGGQGGGGGGSSR

TRTRPLE - GFP Tag - V

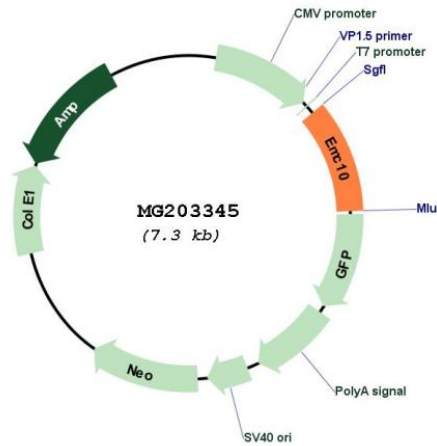
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_197991

ORF Size: 774 bp

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|-------------------------------|---|
| 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_197991.1 , NP_932108.1 |
| RefSeq Size: | 1609 bp |
| RefSeq ORF: | 807 bp |
| Locus ID: | 69683 |
| UniProt ID: | Q3TAS6 |
| Cytogenetics: | 7 B3 |
| Gene Summary: | Promotes angiogenesis and tissue repair in the heart after myocardial infarction. Stimulates cardiac endothelial cell migration and outgrowth via the activation of p38 MAPK, PAK and MAPK2 signaling pathways.[UniProtKB/Swiss-Prot Function] |