

Product datasheet for MR203345

Emc10 (NM_197991) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Emc10 (NM_197991) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Emc10 |
| Synonyms: | 2310044H10Rik; 5430410O10Rik; Inm02; Mirta22 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR203345 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGGCCGGGTGCCGGGTGACCCGGCTGTTAGTGCTCTTGCTGATGGTAGCCGGCTCCTAGCA
GAGCCCGAGGCAGCGCTGCCGGTCCGGGCTCCGCGCGTGGGACCGGGCCGATGGCCGTGAAGCTGA
GGGCTGTGGCACCCTGGCTTTGCTGCTGGAGCATTCAATTTGAGCTCGGTGATGGACCAACTCCAGAAG
CGAGGCTCGTCTGGAACCAGCAGGATGGCACCTGTGGCAACACAGCGACAGCTCAGTGAGGAGG
AGCGTGGCCGACTCCGGATGTGGCTGTCAATGGCCTCTACAGGGTCCGGTCCCGAGCGGCCTGG
GACACTTGATGGTTCAGAAGCTGGCGGCATGTGTCTTCCTTCGTCACAGCGTGCCTCCGTGGAGTGC
CACCTTCGGACAGCTGACCTGCACGTGGATGTGGCTGGCAACGTGGTGGCCTGTCTGTGGTGGTGT
ACCCTGGGGGCTGCCGGGCTCCGAGGTGGAAGATGAGGACCTGGAGCTGTTCAATACATCTGTGCAGCT
GCGGCCTCCAGCACTGCTCCAGGCCCCGAGACTGCCGCCTTCATTGAGCGCCTGGAAATGGAGCAGGCC
CAGAAGGCTAAGAACCACAGGAGCAGAAGTCTTTCTTTGCCAAATACTGGATGTACATCATTCCAGTTG
TGCTGTTCTCATGATGTCAGGAGCGCCGACGCCGGGGCCAGGGTGGCGGTGGGGCGGGGCGAGCAG
CCGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203345 protein sequence
 Red=Cloning site Green=Tags(s)

MVAAGAGVTRLLVLLLMVAAAPSRARGSGCRV GASARGTGADGREAE GCGTVALLLEH SFELGDGANFQK
 RGSLLWNQQDGLSATQRQLSEEERGLRDVA AVNGLYRVVPRRPGTLDGSEAGGHVSSFPACSLVES
 H L S D Q L T L H V D V A G N V V G L S V V V Y P G G C R G S E V E D L E L F N T S V Q L R P P S T A P G P E T A A F I E R L E M E Q A
 Q K A K N P Q E Q K S F F A K Y W M Y I I P V V L F L M M S G A P D A G G Q G G G G G G S S R

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_197991

ORF Size: 777 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_197991.1](#), [NP_932108.1](#)

RefSeq Size: 1855 bp

RefSeq ORF: 807 bp

Locus ID: 69683

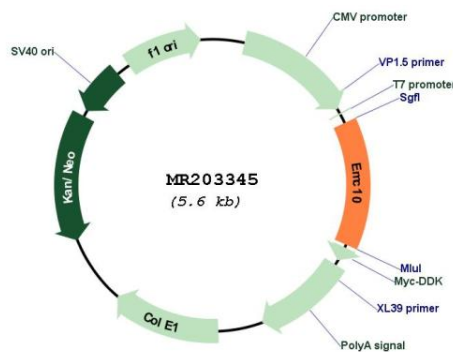
UniProt ID: [Q3TAS6](#)

Cytogenetics: 7 B3

MW: 27 kDa

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]

Product images:



Circular map for MR203345