

Product datasheet for **MG201704**

Esm1 (NM_023612) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Esm1 (NM_023612) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Esm1
Synonyms: 0610042H23Rik; AV004503; ESM-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201704 representing NM_023612
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGAGCCTCTTGCTGCTGACCACACTCTGGTACCTCTGCACCTGGGCATGGCCTGGAGCGCCAAAT
 ATGCGGTGGATTGCCCGAACATTGTGACAAAACCTGAGTGCAGAAGCAGCCTGCGTTGCAAGAGGACAGT
 GCTGGATGACTGTGGCTGCTGCCAGGTGTGCGCCGGGACCTGGAGAAACCTGCTACCGTACAGTCTCA
 GGCATGGACGGGGTCAAGTGTGGTCCGGGGCTGAAGTGTCACTTTACAGCGAGGAGGATGATTTTGGTG
 ACGAGTTTGGTATCTGCAAAGACTGTCCCTATGGCACCTTCGGGATGGAATGCAAAGAGACTTGCAATTG
 CCAGTCGGGCATATGTGACAGGGTGACCGGAAGATGTCTGGACTTCCCTTCTTCCAGTATGCAGCAGCC
 AAATCTCCAGCAGGACCTCTGCCTCCACACAGAGCGTGACTCAGCATCCGGAGATGGCAACGCTGTGA
 GAGAAGAGATTGGAGAAGGGAACGCTGCTCGGCCCTCCGTGATGAAATGGTTAAATCCACGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201704 representing NM_023612
 Red=Cloning site Green=Tags(s)

MKSLLLL TLLL VPLHLGMAWSAKYAVDCPEHCDKTECRSSLRCKRTVLDDCGCCQVCAAGPGETCYRTVS
 GMDGVKCGPGLKCHFYSEEDDFGDEFGIKDCPYGTFGMECKETCNCQSGICDRVTGRCLDFPFQYAAA
 KSPSRTSASHTERDSASGDGNAVREEIGEGNAARPSVMKWLNPR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

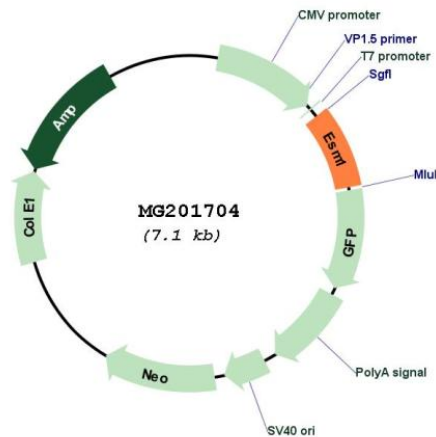


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Cloning Scheme:



Plasmid Map:



ACCN: NM_023612

ORF Size: 552 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:	<u>NM_023612.3</u> , <u>NP_076101.1</u>
RefSeq Size:	2163 bp
RefSeq ORF:	555 bp
Locus ID:	71690
UniProt ID:	<u>Q9QYY7</u>
Cytogenetics:	13 D2.2
Gene Summary:	Involved in angiogenesis; promotes angiogenic sprouting. May have potent implications in lung endothelial cell-leukocyte interactions (By similarity).[UniProtKB/Swiss-Prot Function]