

Product datasheet for RR201802

Esm1 (NM_022604) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Esm1 (NM_022604) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Esm1
Synonyms: Pg25
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR201802 representing NM_022604
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAAGAGCCTCTTGCTACTGACCAGCTCCTGATTCTCTGCACCTGGGCATGGCCTGGAGCGCCAAGT
 ATGCGGTGGATTGCCCGAACATTGTGACAATACTGAGTGCAGAAGCAGCCTGCGTTGCAAGAGGACAGT
 GCTGGATGACTGTGGCTGCTGCCAAGTGTGCGCTGCGGGCCCTGGGAAACCTGCTACCGTACAGTCTCA
 GGCATGGACGGTGTCAAGTGTGGTCCGGGACTGAAGTGTCACTTTACAGCGAGGAAGATGATTTCCGGT
 ACGAGTTTGGTGTCTGTAAGACTGTCCCTACGGCACGTTCCGGATGGATTGCAAGGAGACTTGCAATTG
 CCAGTCGGGCATATGTGACAGGGTGACCGGGAGGTGTCTGGACTTCCCCTTCTCCAGTATGCAGCAGCC
 AAGTCGCCCAGCAGGACCTCTGCCTCCCAAACAGAGCGCGATGCAGCCTCTGGAGATGGCAATGCTGTGA
 GAGAAGAGATTGGAGACCGGAACGCTGCCCGCCCTCTGTAATGAAATGGTTAAATCCGCGC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

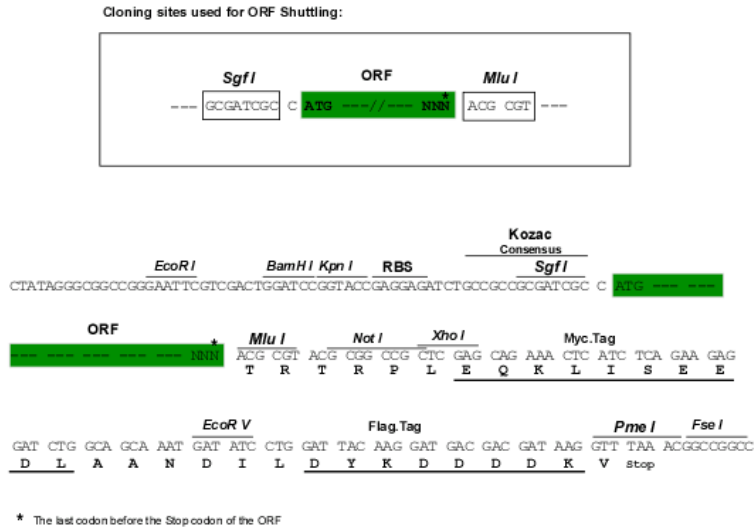
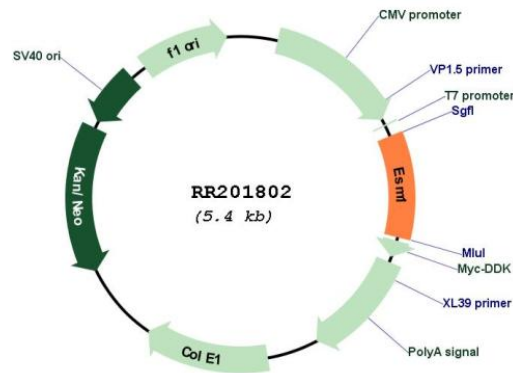
Protein Sequence: >RR201802 representing NM_022604
 Red=Cloning site Green=Tags(s)

MKSLLLLTLLIPLHLGMAWSAKYAVDCPEHCDNTECRSSLRCKRTVLDDCGCCQVCAAGPGETCYRTVS
 GMDGVKCGPLKCHFYEEDDFGDEFVCKDCPYGTFGMDCKETCNCQSGICDRVTVGRCLDFPFQYAAA
 KSPSRTSASQTERDAASGDGNVREEIGDRNAARPSVMKWLNPR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_022604

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_022604.2</u> , <u>NP_072126.1</u>
RefSeq Size:	2160 bp
RefSeq ORF:	555 bp
Locus ID:	64536
UniProt ID:	<u>P97682</u>
Cytogenetics:	2q14
MW:	20.1 kDa
Gene Summary:	secreted protein mainly expressed in endothelial cells; may be involved in lung-kidney interaction [RGD, Feb 2006]