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Product datasheet for MC207559

Emc3 (NM_175101) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Emc3 (NM_175101) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Emc3
Synonyms:	0610039A15Rik; AI225901; AW260416; Pob; Tmem111
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

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>MC207559 representing NM_175101
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGGGCCCGAGCTGCTGCTTGACTCCAACATCCGCCTCTGGGTGGTCCTGCCCATCGTTATCATCA
CTTTCTTCGTGGGCATGATCCGCCACTACGTGTCAATCCTACTGCAGAGCGACAAGAAGCTCACCCAGGA
ACAAGTGTCTGACAGTCAGGTCCTAATTCGAAGCAGAGTCCTCAGGGAAAATGGAAAATACATTCCCAAG
CAGTCTTTCTTAACACGAAAATATTACTTCAACAACCCAGAGGATGGATTTTTCAAAAAAACAAAAAGGA
AGGTTGTGCCACCTTCCCCCATGACAGACCCCACCATGCTCACAGACATGATGAAAGGGAATGTCACAAA
TGTCCTCCCAATGATTCTTATCGGCGGATGGATCAACATGACGTTTTCAGGCTTTGTCACAACTAAGGTC
CCGTTTCCACTGACACTTCGCTTCAAGCCTATGCTTCAGCAAGGAATAGAGCTGCTCACACTAGACGCAT
CCTGGGTGAGTTCTGCATCCTGGTACTTCCTCAATGTGTTTGGGCTCCGGAGCATTTACTCTCTAATCCT
GGGCCAAGATAACGCCGCCGACCAGTCACGAATGATGCAGGAGCAGATGACAGGAGCAGCGATGGCCATG
CCTGCAGACACCAACAAAGCTTTCAAGACAGAGTGGGAAGCTTTGGAACTGACAGATCACCAGTGGGCGC
TCGATGATGTGGAAGAAGAACTCATGGCCAGAGACCTCCACTTTGAAGGCATGTTCAAAAAGGAACTACA
GACGTCCATATTCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Restriction Sites:	SgfI-MluI
ACCN:	NM_175101
Insert Size:	786 bp

View online »

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_175101.3, NP_780310.1
RefSeq Size:	1958 bp
RefSeq ORF:	786 bp
Locus ID:	66087
UniProt ID:	Q99KI3
Cytogenetics:	6 E3
Gene Summary:	Part of the endoplasmic reticulum membrane protein complex (EMC) that enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins. Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues. Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane-anchor sequences become ER membrane spanning helices. It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes. By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N-terminus in the lumen of the ER, controls the topology of multi-pass membrane proteins like the G protein-coupled receptors. By regulating the insertion of various proteins in membranes, it is indirectly involved in many cellular processes.[UniProtKB/Swiss-Prot Function]

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