OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR215036

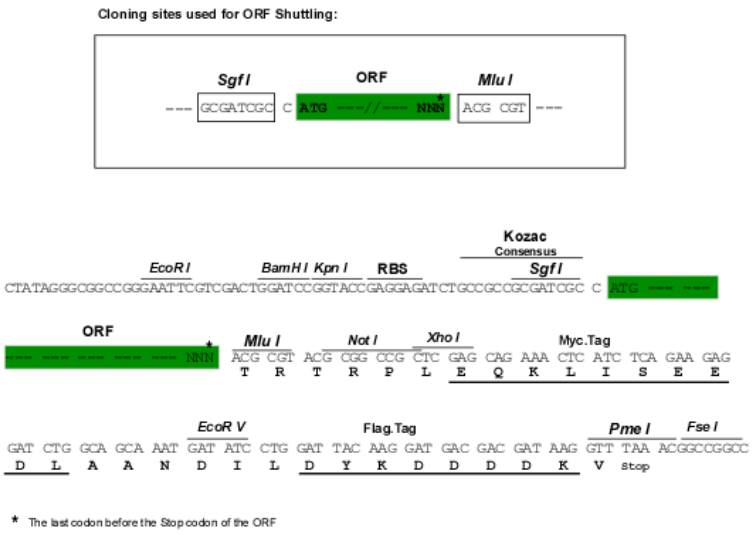
Emc6 (NM_025318) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Emc6 (NM_025318) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Emc6
Synonyms:	0610009E20Rik; 0610025L18Rik; Tmem93
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215036 representing NM_025318 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCCGCGGTGGTGGCCAAGCGGGAAGGGCCGCCGTTCATCAGCGAGGCAGCCGTGCGAGGCAACGCCG CGGTCCTGGATTACTGCCGGACCTCAGTGTCAGCGCTGTCCGGGGCCACCGCCGGCATCCTCGGCCTCAC CGGCCTCTACGGCTTCATCTTCTACCTGCTTGCCTCCGTCCTGCTCTCCCTGCTCCTCATTCTCAAAGCG GGAAGGAGGTGGAACAAATATTTTAAGTCACGAAGACCTCTCTTTACGGGAGGCCTCATTGGAGGCCTCT TCACCTACGTCCTCTTTTGGACCTTCCTCTATGGCATGGTGCACGTCTAC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>MR215036 representing NM_025318 Red=Cloning site Green=Tags(s) MAAVVAKREGPPFISEAAVRGNAAVLDYCRTSVSALSGATAGILGLTGLYGFIFYLLASVLLSLLLILKA GRRWNKYFKSRRPLFTGGLIGGLFTYVLFWTFLYGMVHVY TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mm9028_b04.zip
Restriction Sites:	SgfI-MluI

View online »

Cloning Scheme:



ACCN:	NM_025318
ORF Size:	330 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_025318.3, NP_079594.1
RefSeq Size:	1353 bp
RefSeq ORF:	333 bp
Locus ID:	66048

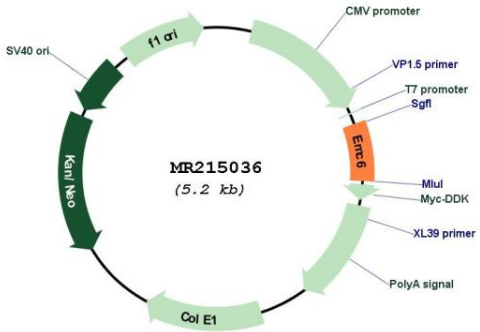
UniProt ID: Q9CQW0

Cytogenetics: 11 B4

MW: 12.5 kDa

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]

Product images:



Circular map for MR215036