

Product datasheet for **MG204127**

Emc2 (NM_025736) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Emc2 (NM_025736) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Emc2
Synonyms:	4921531G14Rik; AV060620; AW209495; Ttc35
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204127 representing NM_025736 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAAGGTCCTGAGCGTTACGATGTGACTTGGGAAGAAATGCGAGATAAAATGAGAAAATGGCGAG
AAGAAAATCAAGAAATAGTGAACAAATTATGGAAGTTGGAGAAGAATTAATTAATGATTATGCTTCTAA
GCTTGGGGATGACATTTGGATCATATATGAGCAGGTCATGATTGCAGCCCTAGACTATGGTCGGGATGAC
TTGGCATTGTTTTGTCTTCAGGAATTAAGAAGACAATCCCTGGTAGTCACAGAGTTAAGCGTTAACAG
GCATGCGATTTGAAGCTATGGAAGATATGACGATGCTATACAACCTGTATGATCGGATTTTGAAGAAGA
TCCAATAACACTGCTGCCAGAAAGCGTAAGATTGCCATTCGAAAAGCCCAGGGGAAAACCGTAGAGGCC
ATCCGAGAGCTGAATGAGTATCTGGAGCAGTTTGTGGAGACCAAGAAGCCTGGCATGAACCTTGAGAAC
TTTATATCAATGAACACGACTATGCCAAAGCAGCTTTTGTCTTAGAGGAGCTGATGATGACAAATCCACA
TAACCACTTATACTGTCAGCAGTATGCAGAAGTCAAATACACCAAGGTGGACTTGAAAACCTCGAGCTT
TCAAGAAAGTATTTGCACAGGCCCTGAACTCAACAACAGGAACATGAGAGCTCTGTTGGGCTTTACA
TGCTGCAAGTCATATTGCTTCTAATCCAAAAGCAAGTCAAAAATGAAAAAGACAACATCAAATATGC
TAGTTGGGCCGCTAATCAAATAAACAGGGCTTATCAGTTTGCAGGTCAAGTAAGAAGGAAACCAATAC
TCTCTTAAGGCAGTTGAAGACATGTTGGAGACATTGCAGATCACTCAGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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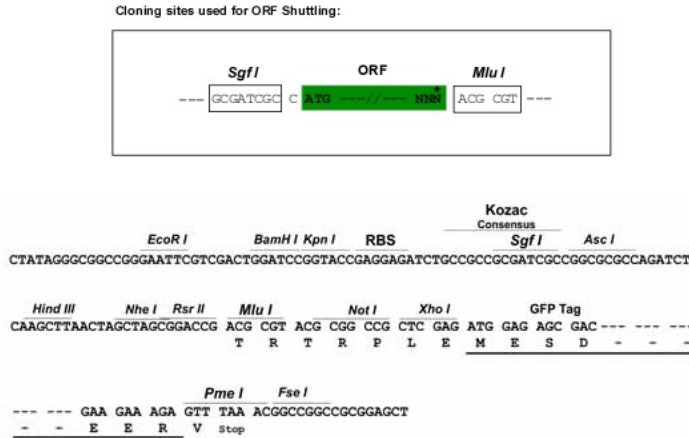
Protein Sequence: >MG204127 representing NM_025736
 Red=Cloning site Green=Tags(s)

MAKVTERYDVTWEEMRDKMRKWRENSRNSEQIMEVGEELINDYASKLGDDIWIIEYQVMIAALDYGRDD
 LALFCLQELRRQFPGSHRVKRLTGMRFAMERYDDAIQLYDRILQEDPTNTAARKRKIAIRKAQGGKTVEA
 IRELNEYLEQFVGDQEAHELAEALYINEHDYAKAAFCLLEELMMTNPHNHLYCQQYAEVKYTQGGLENLEL
 SRKYFAQALKLNNRMRALFGLYMSASHIASNPKASAKMKKDNIKYASWAANQINRAYQFAGRSKKETKY
 SLKAVEDMLETLQITQS

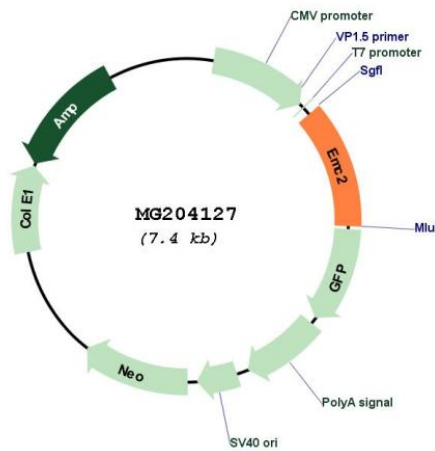
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_025736

ORF Size: 891 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:	NM_025736.1 , NP_080012.1
RefSeq Size:	1246 bp
RefSeq ORF:	894 bp
Locus ID:	66736
UniProt ID:	Q9CRD2
Cytogenetics:	15 B3.2
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]