

Product datasheet for **MG211868**

Emsy (NM_172280) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Emsy (NM_172280) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Emsy
Synonyms:	2210018M11Rik; 2310016L09Rik; AU019521; AU019557
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211868 representing NM_172280 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCTGTTGTGTGGCAACCCTTTTGGATCTCAGCAGGGATGAATGCAAACGGATTCTTCGAAAATTGG
AACTGGAGGCATATGCTGGAGTTATCAGTGCACCTCGGGCACAAGGGGACCTCACCAAGGAAAAGAAAGA
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GGAGCTGCAACCTATGTGAAAACCTACCAGTGGCAGCATCATCACTGTAGTACCCAAATCATTAGCTACCT
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GTAGAACGGTCC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211868 representing NM_172280
 Red=Cloning site Green=Tags(s)

MPVVWPTLLDLRDECKRILRKLELEAYAGVISALRAQGLTKEKKDLLGELSKVLSISTERHRAEVRRA
 VNDERLTTIAHKMNL SL YLGERPSYSMSGPNSSSEWSIEGRRLVPLMPRLVPQTAFVTANAVANAQVH
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 SVTKITFEGRQPPTVTKITGGSSVPKLTSPVTSISPIQASEKTAVSDILQMSLMEAQIDTINVEHMMVDP
 KKALATNVL TGEAGALPSTHVAVAGMTKCRESCSSPSAVGPPLTTRKIEAAGVPTTGQFMRIQNVGQKKA
 EESPT E I I Q A I P Q Y A I P C H S S S N V V E P S G L L E L N N F T S Q Q L D D D E T A M E Q D I D S S T E D G T E P S P S Q S A
 V E R S

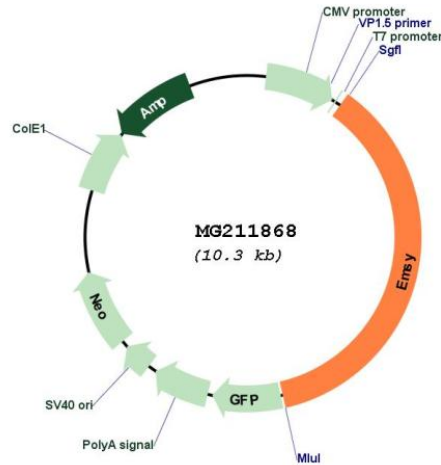
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_172280

ORF Size: 3792 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_172280.2](#), [NP_758484.2](#)

RefSeq Size: 4031 bp

RefSeq ORF: 3795 bp

Locus ID: 233545

UniProt ID: [Q8BMB0](#)

Cytogenetics: 7 E1

Gene Summary:

Regulator which is able to repress transcription, possibly via its interaction with a multiprotein chromatin remodeling complex that modifies the chromatin. Its interaction with BRCA2 suggests that it may play a central role in the DNA repair function of BRCA2 (By similarity). As part of a H3-specific methyltransferase complex may mediate ligand-dependent transcriptional activation by nuclear hormone receptors (By similarity).[UniProtKB/Swiss-Prot Function]