

## Product datasheet for MR211868

### Emsy (NM\_172280) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Emsy (NM_172280) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Emsy
Synonyms:	2210018M11Rik; 2310016L09Rik; AU019521; AU019557
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211868 representing NM_172280 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTGTTGTGGCCAACCCTTTTGGATCTCAGCAGGGATGAATGCAAACGGATTCTTCGAAAATTGG  
AACTGGAGGCATATGCTGGAGTTATCAGTGCACCTCGGGCACAAGGGGACCTCACCAAGGAAAAGAAAGA  
TCTTCTGGAGAGCTCTCAAAGTCCTTAGCATCTCAACAGAGCGCCACCGTGTGAAGTTCGGAGAGCA  
GTAACAGTGAACGGTTAAACAATTGCACATAAAATGAATTTATCCTTATATTTGGGTGAAAGACCAA  
GTTACAGTATGTCTGGACCTAATAGTTCTCAGAGTGGTCCATCGAAGGACGTAGATTGGTACCTCTGAT  
GCCCAGGCTGGTTCCCCAGACTGCCTTCACTGTAAACAGCGAATGCTGTGGCCAATGCAGCTGCCAGCAC  
AATGCGTCCCTTCTGTGCCTGCAGAGACAGCAAGCAAAGACGGCGTTAGCTGCTCAGATGAAGATGAAA  
AACCCAGAAAACGCAGGCGAACAACCTCTAGCTCCTCCCCTGTTGTCTCAAGGAAGTTCCAAAGGC  
TGTTGTTCCGGTCTCAAAGACGATCACTGTGCCTGTGAGTGGAAGTCCCAAGATGAGCAACATTATGCAG  
AGCATTGCCAACTCCTTACCACCCCATATGTACCTGTGAAAATAACGTTTACCAAACCATCAACACAGA  
CAACAAACACAACAACACAGAAGTTATTATAGTGACCACATACCAAGTTCAACCTTTGTGCCAACAT  
TCTCTCCAAATCTATAACTATGCAGCAGTCACAAAGCTTGTACCAACATCAGTCATTGCCTCCACGACT  
CAGAAGCCACCTGTTGTTATAACTGCGTCCCAGGCCTCTCTGGTCACCAGTACGCAATGGCAACAGCA  
GTTCTACGTATCACCTATTTCTAGTACAGTTGCAGTAAACAACGGTGGTATCTTCCACACCGTCCGTGGT  
CATGTCAACAGTAGCACAAAGGTGTATCCACATCAGCAATCAAAGTGGCATCGACAAGACTTCTTCCCCC  
AAAAGCTTAGTGAGTGGCCCTACCAGATTCTTGACAGTTTCTAAACAGCATCAGCAGTCTCCTAAGC  
AGCAGTTACAGCAAGTACAACAACAGACACAGCAGCCAGTGGCCAGCCTTCTTCAAGTGTCTCAGCAGCA  
GCAGCCTCAGCAGTCAGCATTGCCGCTGGTATCAAACCTACCATCCAGATCAAACAGGAGTCAGGTGTT  
AAAATCATCACACAGCAGGTTCAACCAAGTAAATCTTACCCAAACAGTACTGCAACTCTACCCACCA  
GTAGCAATCCCCAATTATGGTGGTTAGCAGTAATGGTGAATTATGACAACTAACTGGTAACCACTCC  
TACCGGTAATCAGGCAACCTATACCCGCAACAGTGAGCCATCCTTAGGTCGTGTGGCTACAACCCCT



[View online >](#)

GGAGCTGCAACCTATGTGAAAACCTACCAGTGGCAGCATCATCACTGTAGTACCCAAATCATTAGCTACCT  
TGGGAGGCAAGATAAATTAGCAGTAATATTGTTTCTGGAACGACTACCCAAATCACTACAATCCCAATGAC  
TTCCAAGCCCAATGTGATTGTTGTACAAAAGACTACAGGAAAAGGAACGACCATTCAAGGCCTCCCTGGC  
AAAAACGTTGTCAACAACCTTGCTAAATGCTGGAGGAGAAAAGACTCTTCAGACAGTGCCAGCTGGAGCCA  
AGCCAGCTATAAATTACTGCTACAAGACCCATCACCAAAATGATTGTAACACAGCCCAAAGGAATAGGTTT  
CGCAGTACAGCCAGCAGCTAAAAATCATTCCAACAAAAATTTGTGTATGGACAACAAGGAAAAACACAGGTT  
CTAATTAACCCAAACCAGTGACATTTCAAGCTACAGTTGTCAGTGAACAAACAAGGCAGCTGGTAACAG  
AAACATTACAGCAAGCATCCAGGGTAGCAGATGCCAGTAATTCATCTGCTCAGGAAGGAAAAAGAGGAGCC  
ACAGGGTTACACAGACAGTAGTTCTTCTCCACAGAGTCTCCACAGATTCTCAAGATCCACAGCCTGTA  
GTTTATGTAATTGCTTCCCGGCGTCAGGATTGGTCAGAACATGAGATTGCAATGGAGACTAGCCCCACCA  
TAATATATCAGGATGTATCCAGTGAATCACAATCAGCCACTTCAACAATCAAAGCTCTGTTAGAACTCCA  
ACAGACAACAGTAAAGGAAAAATTTGAAATCTAAACCAAGACAACCCACTATTGACTTGAGTCAAATGGCA  
GTACCTATTCAGATGACCCAGGAAAAGAGACATTTCTCTGAGAGTCCATCCATTGCTGTGGTAGAGTCAG  
AACTAGTTGCTGAATACATCACCACGGTCAGCCATCGCTCCAGCCCCAACAGCCTTCCAGCCCCAGCG  
GACCCTGCTTCAACATGTGGCTCAGTACAGACTGCGACGCAGACTTCGGTGGTAGTAAAGTCCATCCCA  
GGTCTTCCCCTGGAGCAATCACCCACATCATGCAGCAGGCATTAAAGCAGTCACACCGCTTTTACGAAAC  
ACAGTGAGGAACTTGGAACTGAGGAGGGTGAGGTTGAAGAGATGGACACATTGGATCCTCAGACAGGCT  
GTTTTACCCTCTGCCCTGACACAATCGCAGTCAACCAACAGCAGAACTTAGCCAGCCCCAGCTGGAA  
CAGACTCAGCTGCAAGTAAAACCTCTGCAGTGTCTCCAGACCAACAGAAAGCAGACCATCCACCTGCAGG  
CAGACCAACTCCAGCACAACTCACACAGATGCCCCAGCTCTCTATCAGGCATCAGAACTGAATCCTCT  
CCAGCAGGAACAAGCACAGCCCAAGCCAGATGCACAGCACACAGCATACTGTGGTGGCCAAAGACAGG  
CAGCTTCTACCTAATGGCACAGCCCCGCAAACTGTAGTACAGGTGCTTGGCGTAAAACCCACACAGC  
AGCTTCTAAACTGCAGCAAGCTCCGAACCAACCAAAAAATCTACGTGCAACCCCAAACTCCTCAGAGCCA  
GATGGCCTCCCTCTTTCAGAGAAAACAGCCTGCAAGCCAGGTGGAGCAGCCAATTATAACTCAAGGATCC  
TCTGTTACAAAGATAACATTTGAGGGGCCAGCCTCCACAGTTACAAAGATAACTGGTGGCAGTTCTG  
TTCCTAAGCTGACATCACAGTTACAAGCATATCTCCATTACAGGCCTCTGAGAAGACAGCAGTGTGAGA  
CATTTTGCAAATGTCTTTGATGGAAGCTCAGATTGATACAAATGTAGAACATATGGTAGTGGATCCCCCA  
AAGAAGGCTCTAGCCACCAATGTGCTCACTGGTGGAGGAGGCTCTACCTCCACCCATGTGGTGGTGG  
CAGGGATGACGAAATGTAGAGAGTCTGTTCAAGTCCATCTGCTGTTGGCCCTCCCTAACGACCAGAAA  
AATCGAAGCAGCAGGAGTGCCTACGACAGGCCAGTTCATGCGTATTCAGAAATGTAGGCCAAAAGAAAGCT  
GAAGAGAGCCCAACAGAAATTATCATCCAGGCCATTCCCAGTATGCTATTCCTTGTCACTCCAGCTCCA  
ATGTGGTGGTGGAGCCCAGTGGGCTTCTAGAGTTGAACAACCTTACCAGTCAGCAGCTAGATGACGACGA  
GACAGCCATGGAGCAGGACATAGACAGCAGCACGGAGGACGGGACTGAGCCCAGCCCTCTCAGAGCGCT  
GTAGAACGGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211868 representing NM\_172280  
 Red=Cloning site Green=Tags(s)

MPVVWPTLLDLRDECKRILRKLELEAYAGVISALRAQGLTKEKKDLLGELSKVLSISTERHRAEVRRA  
 VNDERLTTIAHKMNL SL YLGERPSYSMSGPNSSSEWSIEGRRLVPLMPRLVPQTAFVTANAVANA AVQH  
 NASLPVPAETASKDGVSCSDEDEKPRKRRRTNSSSSPVVLEKVPKAVVPVSKITIVPVS GSPKMSNIMQ  
 STANSLPPHMSPVKITFTKPTQTNTTTQKVIVTTSPSSTFVFNILSKSHNYAAVTKLVPTSVIASTT  
 QKPPVVITASQASLVTSSNGNSSSTSSPISSTVAVTTVVSSSTPVSVMSTVAQGVSTSAIKVASTRLPSP  
 KSLVSGPTQILAQFPKQHQQSPKQQLQQVQQQTQPVAQPSSVSQQQPQQSALPPGIKPTIQIKQESGV  
 KIITQQVQPSKILPKPVATLPTSSNSPIMVVSSNGAIMTTKLVTTPTGTQATYRPTVSPSLGRVATTP  
 GAATYVKTSSGSIITVVPKSLATLGGKIISSNIVSGTTTKITIPMTSKPNVIVVQKTTGKGTIIQGLPG  
 KNVVTTLLNAGGEKTLQTPAGAKPAIITATRPITKMIVTQPKGIGSAVQPAAKIIPTKIYVQQGKTQV  
 LIKPKPVTFQATVVSEQTRQLVTETLQQASRVADASNSSAQEGKEEPQGYTSSSSSTESSQSSQDSQPV  
 VHVIASRRQDWSEHEIAMETSPTIYQDVSSSESQSATSTIKALLELQQTTVKEKLESKPROPTIDLQMA  
 VPIQMTQEKRHSPEPSIAVVESELVAEYITTVSHRSQPQPSQPQRTLLQHVAQSQTATQTSVVVKSIP  
 ASSPGAITHIMQALSSHTAFTKHSEELGTEEGEVEEMDLDPQTGLFYRSALTQSQSTKQKLSQPQLE  
 QTQLQVKTLCFQTKQKQTIHLQADQLQHKL TQMPQLSIRHQKLNPLQQEQAQPKPDAQHTQHTVVAKDR  
 QLPTLMAQPPQTVVQVLAVKTTQQLPKLQAPNQPKIYVQPQTPQSQMALPSSEKQPASQVEQPIITQGS  
 SVTKITFEGRQPPTVTKITGGSSVPKLTSPVTSISPIQASEKTAVSDILQMSLMEAQIDTNVEHVVDP  
 KKALATNVLTGEAGALPSTHVVVAGMTKCRESCSSPSAVGPPLTTRKIEAAGVPTTGQFMRIQNVGQKKA  
 EESPTETIIQAIQYAI PCHSSSNVVVEPSGLLELNNFTSQQLDDEETAMEQDIDSTEDGTEPSPSQSA  
 VERS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9047\\_f02.zip](https://cdn.origene.com/chromatograms/mm9047_f02.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

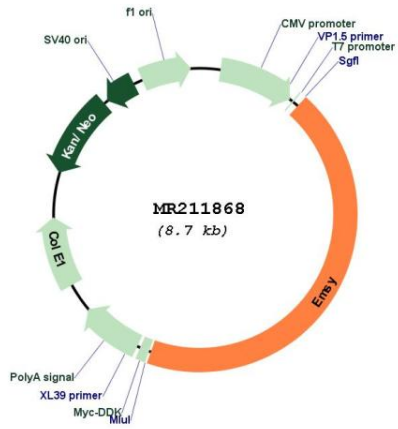


ACCN: NM\_172280

ORF Size: 3792 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_172280.2</a> , <a href="#">NP_758484.2</a>
<b>RefSeq Size:</b>	4031 bp
<b>RefSeq ORF:</b>	3795 bp
<b>Locus ID:</b>	233545
<b>UniProt ID:</b>	<a href="#">Q8BMB0</a>
<b>Cytogenetics:</b>	7 E1
<b>MW:</b>	135.7 kDa
<b>Gene Summary:</b>	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]

Product images:



Circular map for MR211868