

Product datasheet for **MC224104**

Emsy (NM_172280) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Emsy (NM_172280) Mouse Untagged Clone
Tag: Tag Free
Symbol: Emsy
Synonyms: 2210018M11Rik; 2310016L09Rik; AU019521; AU019557
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224104 representing NM_172280
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCTGTGTGGCCAACCCTTTGGATCTCAGCAGGGATGAATGCAAACGGATTCTTCGAAAATTGG
AACTGGAGGCATATGCTGGAGTTATCAGTGCACCTCGGGCACAAGGGGACCTACCAAGGAAAAGAAAGA
TCTTCTGGAGAGCTCTCAAAGTCCTTAGCATCTCAACAGAGCGCCACCGTGTGAAGTTCGGAGAGCA
GTAACGATGAACGGTTAACAACAATTGCACATAAAATGAATTTATCCTTATATTTGGGTGAAAGACCAA
GTTACAGTATGTCTGGACCTAATAGTTCTCAGAGTGGTCCATCGAAGGACGTAGATTGGTACCTCTGAT
GCCCAGGCTGGTCCCCAGACTGCCTTCACTGTAACAGCGAATGTGTGGCCAATGCAGCTGTCCAGCAC
AATGCGTCCCTTCTGTGCCTGCAGAGACAGCAAGCAAAGACGGCGTTAGCTGCTCAGATGAAGATGAAA
AACCCAGAAAACGCAGGCGAACAACCTCCTTAGCTCCTCCCCTGTTGTCTCAAGGAAGTTCCAAAGGC
TGTTGTTCCGGTCTCAAAGACGATCACTGTGCCTGTGAGTGAAGTCCCAAGATGAGCAACATTATGCAG
AGCATTGCCAATCCTTACCACCCCATATGTACCTGTGAAAATAACGTTTACCAAAACATCAACACAGA
CAACAAACACAACAACAGAAGGTTATTATAGTGACCACATACCAAGTTCAACCTTTGTGCCAACAT
TCTCTCCAAATCTATAACTATGCAGCAGTCACTAAGCTTGTACCAACATCAGTCATTGCCTCCAGACT
CAGAAGCCACCTGTTGTTATAACTGCGTCCCAGGCCTCTCTGGTACCAGTAGCAGCAATGGCAACAGCA
GTTCTACGTATCACCTATTTCTAGTACAGTTGCAGTAACAACGGTGGTATCTTCCACACCGTCCGTGGT
CATGTCAACAGTAGCACAAGGTGTATCCACATCAGCAATCAAAGTGGCATCGACAAGACTTCTTCCCCC
AAAAGCTTAGTGAGTGGCCCTACCAGATTCTTGACAGTTTCTAAACAGCATCAGCAGTCTCCTAAGC
AGCAGTTACAGCAAGTACAACAACAGACACAGCAGCCAGTGGCCAGCCTTCTTTCAGTGTCTCAGCAGCA
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AAAATCATCACACAGCAGTTCAACCAAGTAAAATCTTACCCAAACAGTACTGCAACTCTACCCACCA
GTAGCAATCCCCAATTATGGTGGTTAGCAGTAATGGTGAATATGACAATAAAGTGGTAACCACTCC
TACCGGTACTCAGGCAACCTATACCCGGCAACAGTGAGCCATCCTTAGGTCGTGTGGCTACAACCCCT
GGAGCTGCAACCTATGTGAAAACCTACCAGTGGCAGCATCATCACTGTAGTACCAAAATCATTAGTACCT



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TGGGAGGCAAGATAATTAGCAGTAATATTGTTTCTGGAACGACTACCAAAATCACTACAATCCCAATGAC
 TTCCAAGCCAATGTGATTGTTGTACAAAAGACTACAGGAAAAGGAACGACCATTCAAGGCCTCCCTGGC
 AAAACGTTGTCACAACCTTGCTAAATGCTGGAGGAGAAAAGACTCTTCAGACAGTGCCAGCTGGAGCCA
 AGCCAGCTATAATTACTGCTACAAGACCCATCACCAAAATGATTGTAACACAGCCCAAAGGAATAGGTTC
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 CTAATTAACCCAAACCAGTGACATTTCAAGCTACAGTTGTCAGTGAACAACAAGGCAGCTGGTAACAG
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 TAATATATCAGGATGTATCCAGTGAATCACAATCAGCCACTTCAACAATCAAAGCTCTGTTAGAACTCCA
 ACAGACAACAGTAAAGGAAAAATGGAATCTAAACCAAGACAACCCACTATTGACTTGAGTCAAATGGCA
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 AACTAGTTGCTGAATACATCACCACGGTCAGCCATCGCTCCAGCCCAACAGCCTTCCAGCCCCAGCG
 GACCCTGCTTCAACATGTGGCTCAGTCACAGACTGCGACGACAGACTTCGGTGGTAGTAAAGTCCATCCCA
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 CAGACTCAGCTGCAAGTAAAATCTGCAGTGTTCAGACCAACAGAAAGCAGACCATCCACCTGCAGG
 CAGACCAACTCCAGCACAAACTCACACAGATGCCCCAGCTCTCTATCAGGCATCAGAACTGAATCCTCT
 CCAGCAGGAACAAGCACAGCCCAAGCCAGATGCACAGCACACACAGCATACTGTGGTGGCCAAAGACAGG
 CAGCTTCTACCTAATGGCACAGCCCCGAAACTGTAGTACAGGTGCTTGCCGTGAAAACCACACAGC
 AGCTTCTAAACTGCAGCAAGCTCCGAACCAACAAAAATCTACGTGCAACCCAAACTCCTCAGAGCCA
 GATGGCACTCCCCTCTCAGAGAAACAGCCTGCAAGCCAGTGGAGCAGCCAATTATAACTCAAGGATCC
 TCTGTTACAAAGATAACATTTGAGGGGCCAGCCTCCACAGTTACAAAGATAACTGGTGGCAGTTCTG
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 CATTTTGCAAATGTCTTTGATGGAAGCTCAGATTGATACAAATGTAGAACATATGGTAGTGGATCCCCCA
 AAGAAGGCTCTAGCCACCAATGTGCTCACTGGTGGAGGAGCTCTACCCTCCACCCATGTGGTGGTGG
 CAGGGATGACGAAATGTAGAGAGTCTGTTCAAGTCCATCTGCTGTTGGCCCTCCCCTAACGACCAGAAA
 AATCGAAGCAGCAGGAGTGCCTACGACAGGCCAGTTCATGCGTATTCAGAATGTAGGCCAAAAGAAAGCT
 GAAGAGAGCCCAACAGAAATTATCATCCAGGCCATTCCCAGTATGCTATTCCTGTCACTCCAGCTCCA
 ATGTGGTGGTGGAGCCCAGTGGGCTTCTAGAGTTGAACAACCTTACCAGTCAGCAGCTAGATGACGACGA
 GACAGCCATGGAGCAGGACATAGACAGCAGCACGGAGGACGGGACTGAGCCAGCCCTCTCAGAGCGCT
 GTAGAACGGTCTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_172280
- Insert Size:** 3795 bp
- 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_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]