

## Product datasheet for RC216916

### EMSY (NM\_020193) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	EMSY (NM_020193) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EMSY
Synonyms:	C11orf30; GL002
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC216916 representing NM_020193 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGCTGTGTGGCCAAACCTTCTGGATCTCAGCAGGGATGAATGCAAAGAATTCTTCGAAAATTGG  
AATTGGAGGCATATGCTGGAGTTATCAGTGCACCTCGGGCACAGGGGGATCTCACCAAGGAAAAGAAAGA  
TCTTCTGGAGAACTATCAAAGTTCTTAGCATCTCAACAGAACGCCACCGTGTGAAGTTCGGAGAGCA  
GTAACCGATGAACGGTTAAACAATTGCACATAATATGTCTGGACCTAATAGCTCTCAGAATGGTCCA  
TTGAAGGTCGTCGATTGGTACCCTGATGCCCGGCTCGTCCCAAACCGCCTTACTGTAACAGCTAA  
TGCTGTTGCTAATGCAGCTATCCAGCATAATGCATCTCTCCAGTGCCTGCAGAAACAGGAAGCAAGGAA  
GTGGTTTGCTATTCTACACAAGTACCAGTCAACCCCAACCTCTACCCCTGTTCCAAGTGGCAGCATAG  
CAACGGTTAAGTCTCAAGACCTGCCAGTCTGCTCCATGTAGTTGTCTTGCCAAAGTGGAAAGTACTGT  
TTATGTCAAAGTGTAAAGCTGTTTCAGATGAAGATGAAAAACCCAGAAAACGAAGGCGAACAACTCTTCC  
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TCCTGTAATAAACCTTCACTAAACATCAACACAGACAACAACAACAACAACAAGGTTATTATA  
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CTAAGCTTGTAACCAACGTCAGTCATTGCTTCTACAACCCAGAAGCCACCGATTGTTATAACTGCTTCA  
GTCCTCTCTGGTCAAGTATAGCAGCAGTGGCAGCAGTCTACACCATCACCTATTCTAATACAGTT  
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CAACAAGTGGCCAGCCTTCTCCAGTATCTCATCAGCAACAGCCTCAGCAGTCTCCTTTGCCACCTGGTA  
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AATGGTGCAATTATGACAACTAACTGGTAACCACTCCTACTGGCACACAAGCAACCTATACCCGGCCAA  
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CACATGGTGGTGGCAGGGATGGCGAATCCACTCCCAGCAACAGAAATGTAGAGAGTCTGTTGAGTC  
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CATGCGTATTAGAAATGTAGGCCAAAAGAAAGCTGAAGAGAGTCCAGCAGAAATTATCATCCAGGCTATT  
CCTCAGTATGCTATTCTTGTCACTCCAGCTCCAATGTGGTGGTGGAGCCAGTGGGCTTCTTGAGCTAA  
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ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC216916 representing NM\_020193  
 Red=Cloning site Green=Tags(s)

MPVVWPTLLDLRDECKRILRKLELEAYAGVISALRAQGLTKEKKDLLGELSKVLSISTERHRAEVRRA  
 VNDERLTTIAHNMSGPNSSSEWSIEGRRLVPLMPRLVPQTAFTVTANAVANAAIQHNASLPVPAETGSKE  
 VVCYSYVLTSTSTPTSTPVPSGSIATVKSPRPASPNVVLPSGSTVYVKSVSCSDEDEKPRKRRRTNSS  
 SSSPVVLKEVPKAVVPVSKTITVPSGSPKMSNIMQSIANSLPPHMSPVKITFTKPTQTNTTTQKVII  
 VTTSPSSFTVPNILSKSHNYAAVTKLVPTSVIASTTQKPPVVITASQSSLVSNSSSGSSSTPSPIPNTV  
 AVTAVVSSTPSVVMSTVAQGVSTSAIKMASTRLPSPKSLVSAPTQILAQFPKQHQQSPKQQLYQVQQQTQ  
 QQVAQPSPVSHQQPQQSPLPPGIKPTIQIKQESGVKIIITQQVQPSKILPKPVTATLPTSSNIPIMVSS  
 NGAIMTKLVTTPTGTQATYTRPTVSPSIGRMAATPGAATYVKTSGSIIIVVPKSLATLGKIISSNIV  
 SGTTTKITITPMTSKPNVIVVQKTTGKGTIIQGLPGKNVTTLLNAGGEKTIQTVPTGAKPAILTATRPI  
 TKMIVTQPKGIGSTVQAAKIIPTKIVYQQGKTQVLIKPKPVTQATVSEQTRQLVTETLQQASRVAE  
 AGNSSIQEGKEEPQNYTDSSSSSTESSQSQDSQPVVHVIASRRQDWSEHEIAMETSPTIYQDVSESQ  
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 TDEGTEVAFPLLVSHRSQPQSPQRTLLQHVAQSQTATQTSVVVKSIPASSPGAITHIMQQALSSHTA  
 FTKHSEELGTEEGEVEEMDTLDPQTGLFYRSALTQSQSAKQKLSQPPLEQTLQVQKTLQCFQTKQKQTI  
 HLQADQLQHKLPQMPQLSIRHQKLTPLQQEQAQPKPDVQHTQHPMVAKDRQLPTLMAQPPQTVVQLAVK  
 TTQQLPKLQQAPNQPKIYVQPQTPQSQMSLPASSEKQTASQVEQPIITQGS SVTKITFEGRQPPTVKIT  
 GGSSVPKLTSPTVTSIPIQASEKTAVSDILKMSLMEAQIDTNVEHMI VDPKALATSMLTGEAGSLPST  
 H MVVAGMANSTPQQKCRESCSSPSTVGSLLTRKIDPPAVPATGQFMRIQNVGQKKAEESPA EII IQAI  
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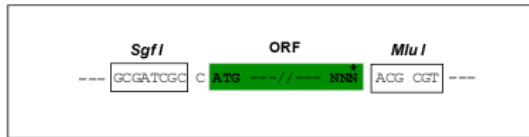
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



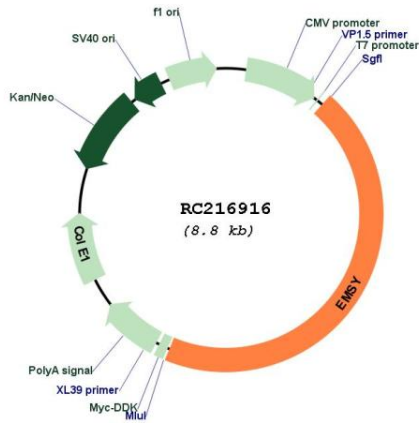
\* The last codon before the Stop codon of the ORF

ACCN: NM\_020193

ORF Size: 3966 bp

<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<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>	<p><a href="#">NM_020193.4</a>, <a href="#">NP_064578.2</a></p>
<b>RefSeq Size:</b>	<p>5518 bp</p>
<b>RefSeq ORF:</b>	<p>3969 bp</p>
<b>Locus ID:</b>	<p>56946</p>
<b>UniProt ID:</b>	<p><a href="#">Q7Z589</a></p>
<b>Cytogenetics:</b>	<p>11q13.5</p>
<b>Domains:</b>	<p>ENT</p>
<b>MW:</b>	<p>141.5 kDa</p>
<b>Gene Summary:</b>	<p>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. As part of a histone H3-specific methyltransferase complex may mediate ligand-dependent transcriptional activation by nuclear hormone receptors.[UniProtKB/Swiss-Prot Function]</p>

Product images:



Circular map for RC216916