

Product datasheet for SC308727

EMSY (NM_020193) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EMSY (NM_020193) Human Untagged Clone
Tag:	Tag Free
Symbol:	EMSY
Synonyms:	C11orf30; GL002
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC308727 representing NM_020193. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGCTGTGTGTGGCAACCCCTTCTGGATCTCAGCAGGGATGAATGCAAAAAGATTCTTCGAAAATTG
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TCTCCTTTGCCACCTGGTATTAACCTACCATCCAAATCAAACAGGAGTCAGGTGTTAAATCATCACA
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CAAGCAACCTATACCCGGCCAACAGTGAGCCCATCCATTGGTCGGATGGCTGCAACCCCTGGAGCTGCA
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 TCCTAACGACAAGGAAAATTTGATCCACCAGCAGTGCCTGCGACAGGCCAGTTTATGCGTATTAGAA
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 CCCAGCCCTTCTCAGAGCTCTGCTGAACGGTCCTAG
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 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: Sgfl-Mlul
Plasmid Map: □
ACCN: NM_020193
Insert Size: 3969 bp

OTI Disclaimer: 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 custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_020193.4](#)

RefSeq Size: 6871 bp

RefSeq ORF: 3969 bp

Locus ID: 56946

UniProt ID: [Q7Z589](#)

Cytogenetics: 11q13.5

Domains: ENT

MW: 141.5 kDa

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. As part of a histone H3-specific methyltransferase complex may mediate ligand-dependent transcriptional activation by nuclear hormone receptors.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (4) lacks an alternate in-frame exon in the 5' end and uses an alternate in-frame splice junction at the 5' end of an exon compared to variant 1. The resulting isoform (4) has the same N- and C-termini but is shorter compared to isoform 1.

Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.