

Product datasheet for RC200034

EMC9 (NM_016049) Human Tagged ORF Clone

Product data:

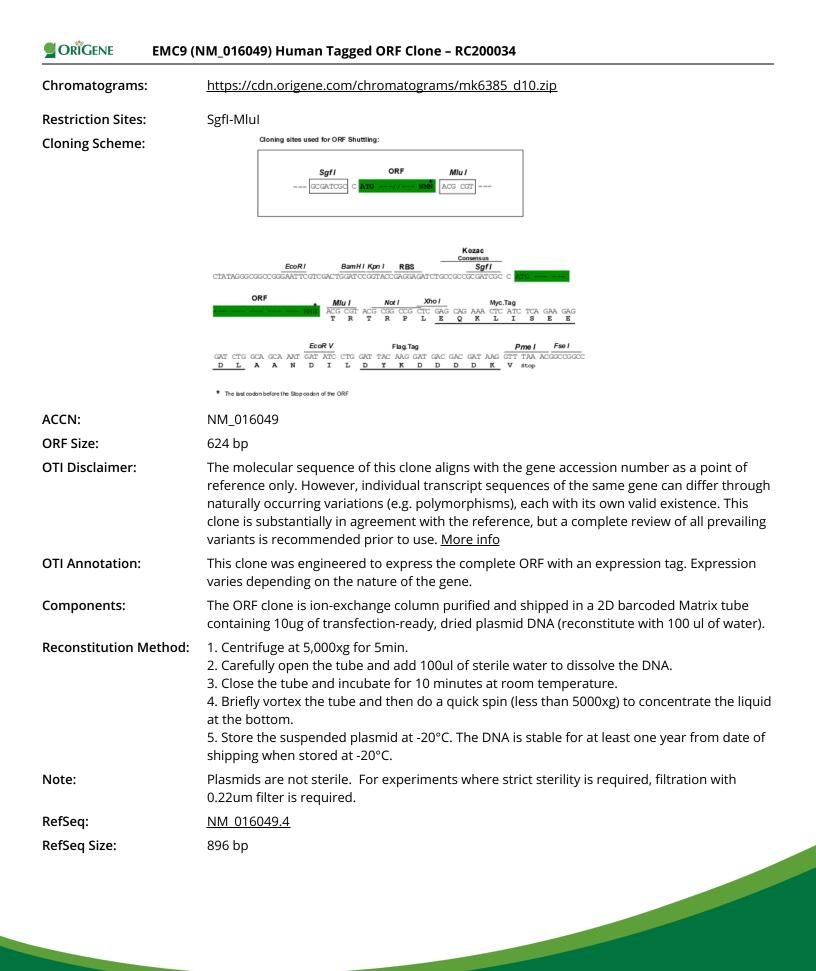
OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	EMC9 (NM_016049) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EMC9
Synonyms:	C14orf122; CGI-112; FAM158A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC200034 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGGGGAGGTGGAGATCTCGGCCTGGCCTACGTGAAGATGTGCCTGCATGCTGCCCGGTACCCACACG CCGCAGTCAACGGGCTGTTTTTGGCGCCCAGCGCCGCGGTCTGGAGAATGCCTGTGCCTCACCGACTGTGT GCCCCTCTTCCACAGCCACCTGGCCTGTCCGTCATGTTGGAAGGTCGCCCCTCAACCAGGTGGATGTGTGG GGAGCACAGGCCGGTCTGGTGGTGGCTGGTTACTACCATGCCAATGCAGCTGTGAACGATCAGAGCCCTG GGCCCCTGGCCTTGAAAATTGCTGGGGCGAATTGCAGAATTCTTCCCTGATGCAGTACTTATTATGTTGGA TAATCAGAAACTGGTGCCTCAGCCTCGTGTGCCCCCGGTCATCGTCCTGGAGAACCAAGGTCTCCGCTGG GTCCCTAAGGATAAGAACTTAGTGATGTGGAGGGACTGGGAAGATCACGAGCCCTG GTCCCTAAGGATAAGAACTTAGTGATGTGGAGGGACTGGGAAGATCACGGCAGATGGTGGGAGCTCTAC TGGAAGATCGGGCCCACCAGCACCTTGTGGACCTTGACTGCCACCTTGATGACATCCGGCAGGACTGGAC CAACCAGCGGCTCAACACTCAAATCACCCAGTGGGTTGGTCCCACTAATGGAAATGGAAATGCA
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC200034 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MGEVEISALAYVKMCLHAARYPHAAVNGLFLAPAPRSGECLCLTDCVPLFHSHLALSVMLEVALNQVDVW GAQAGLVVAGYYHANAAVNDQSPGPLALKIAGRIAEFFPDAVLIMLDNQKLVPQPRVPPVIVLENQGLRW VPKDKNLVMWRDWEESRQMVGALLEDRAHQHLVDFDCHLDDIRQDWTNQRLNTQITQWVGPTNGNGNA TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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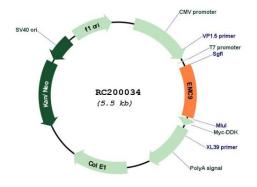
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	EMC9 (NM_016049) Human Tagged ORF Clone – RC200034
RefSeq ORF:	627 bp
Locus ID:	51016
UniProt ID:	<u>Q9Y3B6</u>
Cytogenetics:	14q12
Domains:	UPF0172
MW:	23.1 kDa
Gene Summary:	Part of the endoplasmic reticulum membrane protein complex (EMC) that enables the energy-independent insertion into endoplasmic reticulum membranes of newly synthesized membrane proteins (PubMed:30415835, PubMed:29809151, PubMed:29242231, PubMed:32459176). Preferentially accommodates proteins with transmembrane domains that are weakly hydrophobic or contain destabilizing features such as charged and aromatic residues (PubMed:30415835, PubMed:29809151, PubMed:29242231). Involved in the cotranslational insertion of multi-pass membrane proteins in which stop-transfer membrane- anchor sequences become ER membrane spanning helices (PubMed:30415835, PubMed:29809151). It is also required for the post-translational insertion of tail-anchored/TA proteins in endoplasmic reticulum membranes (PubMed:29809151, PubMed:29242231). By mediating the proper cotranslational insertion of N-terminal transmembrane domains in an N-exo topology, with translocated N-terminus in the lumen of the ER, controls the topology of

cellular processes (Probable).[UniProtKB/Swiss-Prot Function]

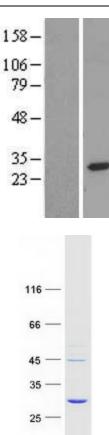
multi-pass membrane proteins like the G protein-coupled receptors (PubMed:30415835). By regulating the insertion of various proteins in membranes, it is indirectly involved in many

Product images:



Circular map for RC200034

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Western blot validation of overexpression lysate (Cat# [LY414216]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200034 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified EMC9 protein (Cat# [TP300034]). The protein was produced from HEK293T cells transfected with EMC9 cDNA clone (Cat# RC200034) using MegaTran 2.0 (Cat# [TT210002]).

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