

Product datasheet for MR216001

Emp2 (NM_007929) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

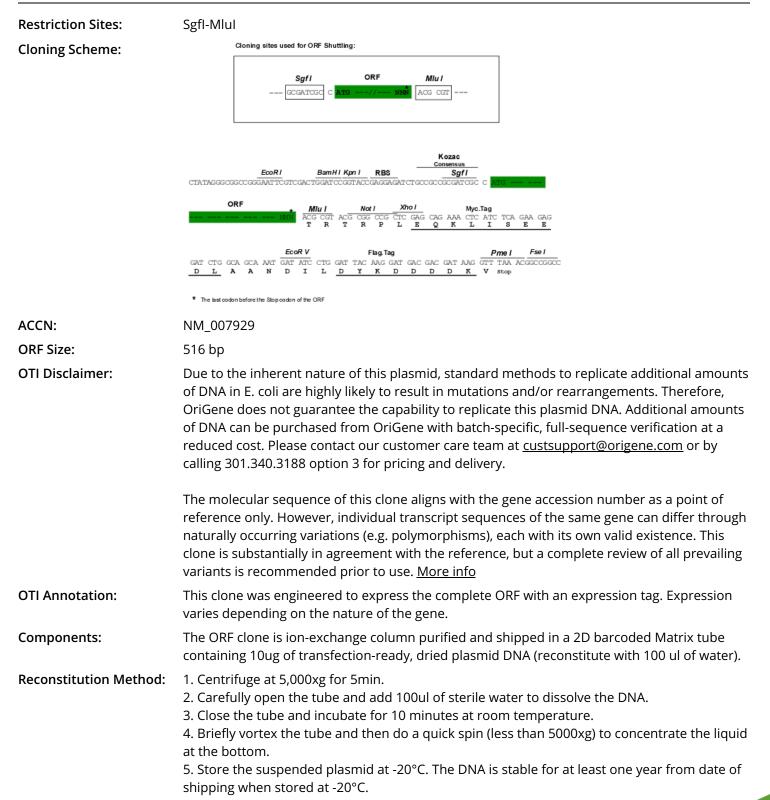
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	Emp2 (NM_007929) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Emp2
Synonyms:	XMP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR216001 representing NM_007929 Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GC <mark>CGCGATCGC</mark> C
	ATGTTGGTGATTCTTGCCTTCATCATTGTCTTCCACATCGTGTCCACGGCACTCCTGTTCATTTCTACCA TTGACAATGCCTGGTGGGTAGGCGACAGCTTCTCTGCTGACCTCTGGAGAGTGTGCACCAACAGCACAAA CTGTACCGAGATCAATGAGCTGACCGGCCCTGAAGCGTTTGAAGGTTATTCTGTGATGCAGGCGGTGCAG GCCACCATGATCCTCTCCACCATCCTCCTGCATCTCCTTCCT
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>MR216001 representing NM_007929 Red=Cloning site Green=Tags(s)
	MLVILAFIIVFHIVSTALLFISTIDNAWWVGDSFSADLWRVCTNSTNCTEINELTGPEAFEGYSVMQAVQ ATMILSTILSCISFLIFLLQLFRLKQGERFVLTSIIQLMSCLCVMIGASIYTDRRQDLHQQNRKLYYLLQ EGSYGYSFILAWVAFAFTFISGLMYMILRKRK
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mm9025_f02.zip



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US





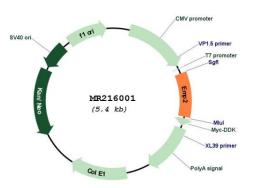
This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

	Emp2 (NM_007929) Mouse Tagged ORF Clone – MR216001
RefSeq:	<u>NM 007929.2, NP 031955.2</u>
RefSeq Size:	3440 bp
RefSeq ORF:	519 bp
Locus ID:	13731
UniProt ID:	<u>O88662</u>
Cytogenetics:	16 5.54 cM
MW:	20.2 kDa
Gene Summary:	Functions as a key regulator of cell membrane composition by regulating proteins surface expression. Also, plays a role in regulation of processes including cell migration, cell proliferation, cell contraction and cell adhesion. Negatively regulates caveolae formation by reducing CAV1 expression and CAV1 amount by increasing lysosomal degradation (PubMed:17609206, PubMed:14978215). Facilitates surface trafficking and the formation of lipid rafts bearing GPI-anchor proteins (PubMed:14978215). Regulates surface expression of MHC1 and ICAM1 proteins increasing susceptibility to T-cell mediated cytotoxicity (PubMed:12763482). Regulates the plasma membrane expression of the integrin heterodimers ITGA6-ITGB1, ITGA5-ITGB3 and ITGA5-ITGB1 resulting in modulation of cell- matrix adhesion (PubMed:12189152). Also regulates many processes through PTK2. Regulates blood vessel endothelial cell migration and angiogenesis by regulating VEGF protein expression through PTK2 activation (By similarity). Regulates focal adhesion density, F-actin conformation and cell adhesion capacity through interaction with PTK2 (By similarity). Positively regulates cell proliferation (By similarity). Plays a role during cell death and cell blebbing (By similarity). Promotes angiogenesis and vasculogenesis through induction of VEGFA via a HIF1A-dependent pathway (By similarity). Also plays a role in embryo implantation by regulating surface trafficking of integrin heterodimer ITGA5-ITGB3 (PubMed:16487956, PubMed:16216233). May play a role in glomerular filtration (By similarity).[UniProtKB/Swiss-Prot Function]

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US



Product images:



Circular map for MR216001

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US