

Product datasheet for **RR216380**

Epm2a (NM_001276762) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Epm2a (NM_001276762) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Epm2a
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR216380 representing NM_001276762
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCTCCGCTTCGGCGTGGTGGTGCCGCCCGCGTGGCCGGCACTCGGCTGGAGCTGCTGCTCGCAG
GATCGCGGCCGAGTTGGGGCGCTGGGAGCCGCGCGGCCGCTGCGTCTCAGGCCGGCGGTACCGCGGC
GGGCGCGCCCGCTGGCATTGCAGGAGCCTGGCCTGTGGCTCGCTGAGGTGGAGCTGGCTCCGGAGGAG
GAGGCGGCCGATGGGGCGGAGCCGGGCCGTATTGACACGTTCTGGTACAAGTTCCTGCAGCGGAGCCGG
GAGGCGAGCTGCACTGGGAAGGAAATGGACCTCACCATGACCGTTGCTGCACATATAATGAAAACAACTT
GGTGGATGGTGTATTATTGTCTCCAGTAGGACTGGATTGAGGCCACTGGGCACACCAACGAAATGAAG
CACACCACAGACTTCTATTTAATATTGCAGGCCACCAAGCCATGCATTATTCAAGAATTCTACCAATA
TCTGGTTGGTAGCTGCCCTCGACAACCTGGAGCATGTGACCATCAAAGTGAAGCATGAACTGGGAATTAC
GGCTGTCATGAATTTCCAGACTGAATGGGATATCATCCAGAATTCTTCAGGCTGCAACCGCTACCCGGAA
CCCATGACTCCAGACACCATGATGAAGCTGTATAAGGAAGAAGGCTTGGCCTATATCTGGATGCCTACTC
CAGACATGAGCACTGAGGCGCGTGCAGATGCTGCCACAGGCTGTGTCTCCTGCACGCGCTTCTGGA
GAACGGACACACGGTGTATGTCCACTGCAACGCTGGCGTGGGCCGCTCCACTGCTGCGGTATGCGGCTGG
CTCCACTACGTATCGGCTGGAGTCTGCACAAGGTGCACTACTCATCATGGCCAAGAGGCTGCGGTCT
ATATCGACGAAGAAGCTTTGGCCCAAGCACAACAAGACTTTTTTCAGAAGTTCGGGAAGGTTCACTCTTC
CATATGCACTTTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR216380 representing NM_001276762
 Red=Cloning site Green=Tags(s)

MLFRFGVVVPPAVAGTRLELLL AGRPELGRWEPRGAVRLRPAGTAAGAAALALQEPGLWLAEVELAPEE
 EAADGAEPGRIDTFWYKFLQREPGGELHWEENGPHHDCCTYNENNLVDGVYCLPVGHWIEATGHTNEMK
 HTTDFYFNIAGHQAMHYSRILPNIWLGSCPRLQLEHVTIKLKHELGITAVMNFQTEWDIIQNSSGCNRYPE
 PMTPDTMMKLYKEEGLAYIWMPPTDMSTTEGRVQMLPQAVCLLHALLENGHTVYVHCNAGVGRSTAAVCGW
 LHYVIGWLSLRKVQYFIMAKRPAVYIDEEALAAQAQQDFFQKFGKVHSSICTL

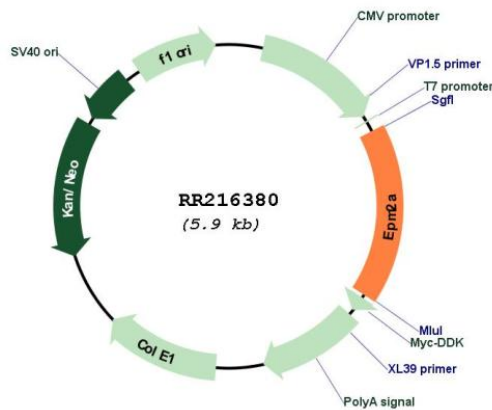
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001276762

ORF Size:	993 bp
OTI Disclaimer:	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 clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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_001276762.1 , NP_001263691.1
RefSeq Size:	1143 bp
RefSeq ORF:	996 bp
Locus ID:	114005
UniProt ID:	Q91XQ2
Cytogenetics:	1p13
MW:	37.1 kDa
Gene Summary:	encodes a dual-specificity phosphatase (DSP) named laforin [RGD, Feb 2006]