*m*EMR4 VersaClone cDNA

Catalog Number: RDC0208

Specifications:

Gene:	*m*EMR4
Accession:	NP_631877
Insert size:	2082bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

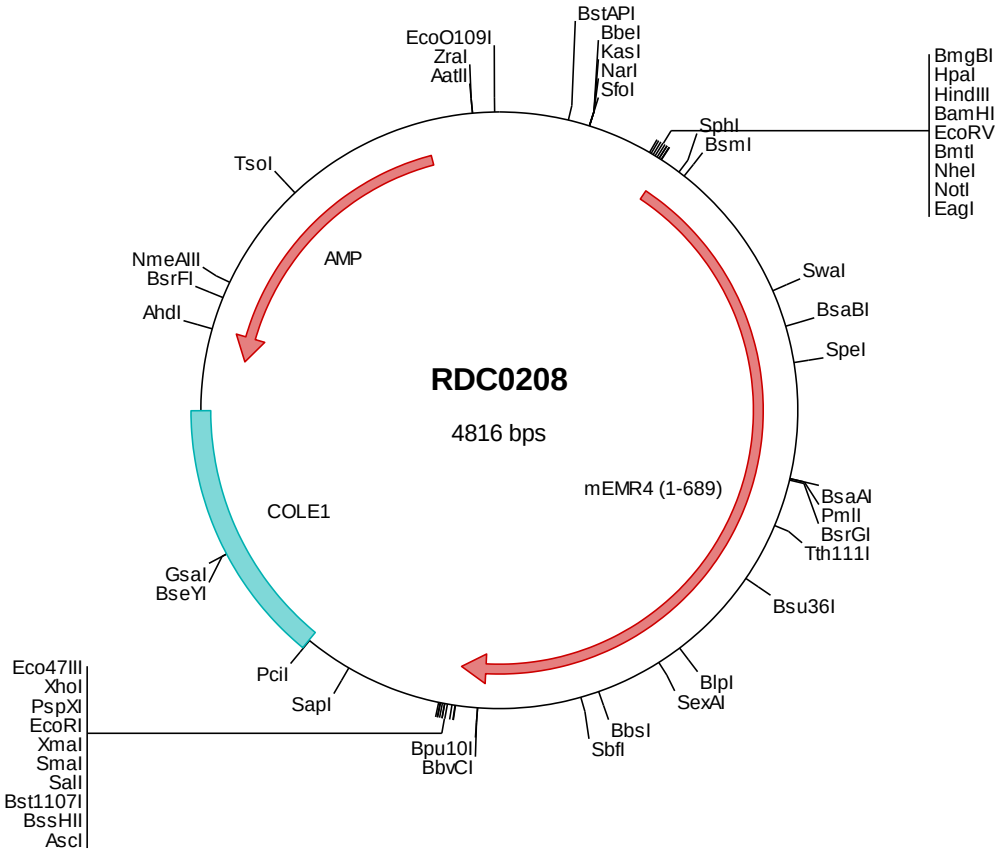
*m*EMR4 cDNA Plasmid

Emr4 EGF-like module containing, mucin-like, hormone receptor-like sequence 4 [*Mus musculus*]

Also known as: Fire; Gpr127; Egf-tm7; D17Ertd479e

Summary:

EMR4 cDNA encodes a predicted 689-amino acid protein containing two epidermal growth factor (EGF)-like modules, a mucin-like spacer domain, and a seven-transmembrane domain with a cytoplasmic tail. EMR4 was found to undergo proteolytic processing within the extracellular stalk region resulting in two protein subunits associated noncovalently as a heterodimer. It is predominantly expressed on resident macrophages. However, a much lower expression level was also detected in thioglycollate-elicited peritoneal neutrophils and bone marrow-derived dendritic cells. EMR4 is the first EGF-TM7 receptor known to mediate the cellular interaction between myeloid cells and B-cells.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC0208 Plasmid DNA Sequence

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 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atgttgatgg gagcaactag agatatggga agcaggtgcc ttctgcatgc
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 601  acccactgtg tttgtaaaga aggattctgg acgggctctg agaatagaag aattattgag ccccatgaga aatgtcaaga tattaatgag tgtctactga
 701  aagaattggt atgcaaggat gtgtcgtact gcagaaataa aattgggact tacatatgca gctgtgtagt aaaatatcct ttgttcaact gggtagctgg
 801  cattattaat attgatcacc ctgattgtta tgtgaacaag agcaagaata caggatcaaa aacacatact ttgggagtac tgagtgaatt taaatccaaa
 901  gaggaggttg caaaaggagc taccaagtta cttcgcaaag tggaacatca catcttgaat gaaaactcag atataccaaa aaaggatgaa aatcctttat
1001  tggatatagt gtatgaaact aagaggtgca agacgatgac tcttctagaa gctggcaaca acacaatgaa ggttgactgc actagtggtt tcaaagagca
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> RDC0208 Translated Insert Sequence

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