

Product datasheet for RC227939

CEMIP2 (NM_001135820) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CEMIP2 (NM_001135820) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CEMIP2
Synonyms:	TMEM2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC227939 representing NM_001135820 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGTATGCCACTGATTCCAGGGGACACTCCCCTGCTTTCCTCCAACCTCAGAATGAAATAGTCGTACC
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GCTTCTCAAGGTGCATCACTGTGCATGGGACAAATGGCTTGCTAATAAAAAGACACCATTGGGTTTGACAC
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Protein Sequence: >RC227939 representing NM_001135820
 Red=Cloning site Green=Tags(s)

MYATDSRGHSPAFLQPQNGNSRHPSGYVPGKVVPLRPPPPKSSQASAKFTSIRREDRATFAFSPEEQQAQ
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 YTIHWNGPAPRTTFLYL VNFKNNDWIRVGLCYPSTSFQVTFGYLQRQNGSLSKIEEYEPVHSLEELQRK
 QSERKFYFDSSTGLLFLYLKAKSHRHGHSYCSSQGCERVIQAAATSKDISNCMAKAYPQYRKPSVVKR
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 SVPFRL TEKTVFPLADVSRIEEYLKTIIPRSIVLLSTRGEIKQLNISHLLVPLGLAKPAHL YDKGSTIF
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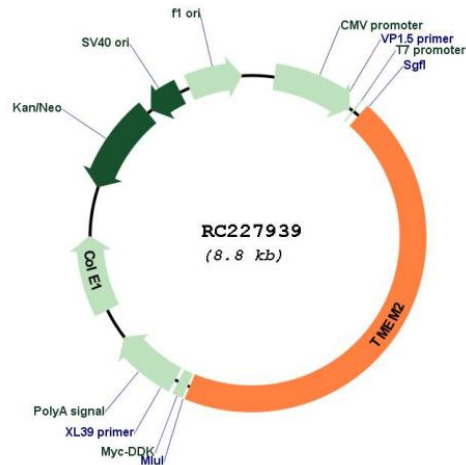
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001135820

ORF Size: 3960 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:

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_001135820.2](#)

RefSeq ORF: 3963 bp

Locus ID: 23670

UniProt ID: [Q9UHN6](#)

Cytogenetics: 9q21.13

Protein Families: Transmembrane

MW: 147.3 kDa

Gene Summary: This gene encodes a type II transmembrane protein that belongs to the interferon-induced transmembrane (IFITM) protein superfamily. The encoded protein functions as a cell surface hyaluronidase that cleaves extracellular high molecular weight hyaluronan into intermediate size fragments before internalization and degradation in the lysosome. It also has an interferon-mediated antiviral function in humans through activation of the JAK STAT signaling pathway. The activation of this gene by transcription factor SOX4 in breast cancer cells has been shown to mediate the pathological effects of SOX4 on cancer progression. Naturally occurring mutations in this gene are associated with autosomal recessive non-syndromic hearing loss. [provided by RefSeq, Mar 2017]