

## Product datasheet for **RC238329**

### HEPACAM2 (NM\_001288810) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HEPACAM2 (NM_001288810) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HEPACAM2
Synonyms:	MIKI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238329 representing NM\_001288810  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTGGCTCAAGGTCTTCACAACCTTCCTTTCCTTTGCAACAGGTGCTTGCTCGGGGCTGAAGGTGACAG  
 TGCATCACACACTGTCCATGGCGTCAGAGGTCAGGCCCTCTACCTACCGTCCACTATGGCTTCCACAC  
 TCCAGCATCAGACATCCAGATCATATGGCTATTTGAGAGACCCACACAATGCCCAAATACTTACTGGGC  
 TCTGTGAATAAGTCTGTGGTTCCTGACTTGAATACCAACACAAGTTCACCATGATGCCACCCAATGCAT  
 CTCTGCTTATCAACCCACTGCAGTTCCTGATGAAGGCAATTACATCGTGAAGGTCAACATTCAGGGAAA  
 TGGAACTCTATCTGCCAGTCAGAAGATAACAAGTACCGTTGATGATCCTGTACAAAGCCAGTGGTGCAG  
 ATTCATCTCCCTCTGGGGCTGTGGAGTATGTGGGAACATGACCCTGACATGCCATGTGGAAGGGGCA  
 CTCGGCTAGCTTACCAATGGCTAAAAATGGGAGACCTGTCCACACCAGCTCCACCTACTCTTTTCTCC  
 CAAAACAATACCCTTCATATTGCTCCAGTAACCAAGGAAGACATTGGGAATTACAGCTGCCTGGTGGAG  
 AACCTGTGAGTAAATGGAAAGTGATATCATTATGCCCATCATATATTATGGACCTTATGGACTTCAAG  
 TGAATTCTGATAAAGGGCTAAAAGTAGGGGAAGTGTTTACTGTTGACCTTGGAGAGGCCATCCTATTTGA  
 TTGTTCTGCTGATTCTCATCCCCAACACCTACTCCTGGATTAGGAGGACTGACAATACTACATATATC  
 ATTAAGCATGGGCCTCGCTTAGAAGTTGCATCTGAGAAAGTAGCCAGAAGACAATGGACTATGTGTGCT  
 GTGCTTACAACAACATAACCGGCAGGCAAGATGAAACTCATTTCACAGTTATCATCACTTCCGTAGGACT  
 GGAGAAGCTTGCACAGAAAGGAAAATCATTGTACCTTTAGCAAGTATAACTGGAATATCACTATTTTTG  
 ATTATATCCATGTGTCTTCTCTTCTATGAAAAAATATCAACCCTACAAAGGCCAGAAACAGAATACAG  
 GAAAGCTCAAACATTTTCAGGCCATGAAGATGCTCTGGATGACTTCGGAATATATGAATTTGTTGCTTTT  
 CCAGATGTTTCTGGTGTTCAGGATCCCAAGCAGGTCTGTTCCAGCCTCTGATTGTGTATCGGGGCAAG  
 ATTTGCACAGTACAGTGTATGAAGTTATTCAGCACATCCCTGCCAGCAGCAAGACCATCCAGAGTGAAC  
 TTTTCATGGGCTAAACAGTACATTCGAGTGAATTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238329 representing NM\_001288810  
 Red=Cloning site Green=Tags(s)

MWLKVF~~TT~~FLSFATGACSGLKVTVPSTVHGV~~R~~QALYLPVHYGFHTPASDIQIIWLFERPHMPKYLLG  
 SVNKSV~~VP~~DL~~EY~~QHKFTMPPNASLLINPLQFPDEGNYIVKVNIQNGTLSASQKIQVTVDDPVTKPVVQ  
 IHPPSGAVEYVGNM~~TL~~TCHVEGGTRLAYQWLKNGRPVHTSSTYSFSPQNNTLHIAPVTKEDIGNYSCLVR  
 NPVSEMESDIIMPIIYYG~~PY~~GLQVNSDKLKVGEVFTVDLGEAILFDCSADSHPPNTYSWIRRTDNTTYI  
 IKHGPRLEVASEKVAQKTMDYVCCAYNNITGRQDETHFTVITTSVGLEKLAQK~~GS~~LSPLASITGISLFL  
 IISMCLLFLWKKYQPYKQKQNTGK~~L~~KHFQAMKMLWMTSEYMNLLLFQMFLVFPGSQAGLFQPLIVYRGK  
 ICTVQCMKLFSTSLPSSKTIQSELSWAKQYIRVKF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

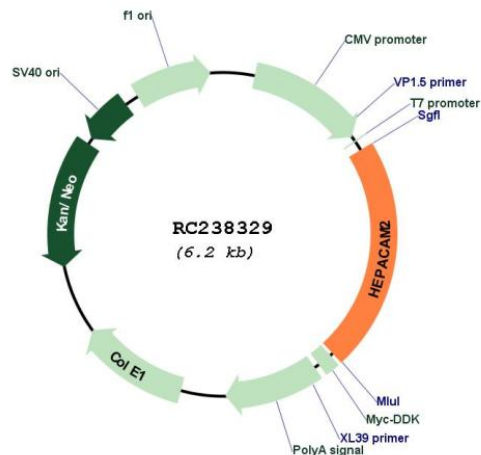
## Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

## Plasmid Map:



ACCN: NM\_001288810

ORF Size: 1365 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\\_001288810.3](#)

**RefSeq Size:** 2123 bp

**RefSeq ORF:** 1368 bp

**Locus ID:** 253012

**UniProt ID:** [A8MWW5](#)

**Cytogenetics:** 7q21.2

**Protein Families:** Transmembrane

**MW:** 51.5 kDa

**Gene Summary:** This gene encodes a protein related to the immunoglobulin superfamily that plays a role in mitosis. Knockdown of this gene results in prometaphase arrest, abnormal nuclear morphology and apoptosis. Poly(ADP-ribosylation) of the encoded protein promotes its translocation to centrosomes, which may stimulate centrosome maturation. A chromosomal deletion including this gene may be associated with myeloid leukemia and myelodysplastic syndrome in human patients. [provided by RefSeq, Oct 2016]