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Product datasheet for RG212222

HEPACAM2 (NM_198151) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEPACAM2 (NM_198151) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HEPACAM2
Synonyms:	MIKI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG212222 representing NM_198151
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGCTCAAGGTCTTCACAACTTTCCTTTCCTTTGCAACAGGTGCTTGCTCGGGGCTGAAGGTGACAG
TGCCATCACACACTGTCCATGGCGTCAGAGGTCAGGCCCTCTACCTACCCGTCCACTATGGCTTCCACAC
TCCAGCATCAGACATCCAGATCATATGGCTATTTGAGAGACCCCACACAATGCCCAAATACTTACTGGGC
TCTGTGAATAAGTCTGTGGTTCCTGACTTGGAATACCAACACAAGTTCACCATGATGCCACCCAATGCAT
CTCTGCTTATCAACCCACTGCAGTTCCCTGATGAAGGCAATTACATCGTGAAGGTCAACATTCAGGGAAA
TGGAACTCTATCTGCCAGTCAGAAGATACAAGTCACGGTTGATGATCCTGTCACAAAGCCAGTGGTGCAG
ATTCATCCTCCCTCTGGGGCTGTGGAGTATGTGGGGAACATGACCCTGACATGCCATGTGGAAGGGGGCA
CTCGGCTAGCTTACCAATGGCTAAAAAATGGGAGACCTGTCCACACCAGCTCCACCTACTCCTTTTCTCC
CCAAAACAATACCCTTCATATTGCTCCAGTAACCAAGGAAGACATTGGGAATTACAGCTGCCTGGTGAGG
AACCCTGTCAGTGAAATGGAAAGTGATATCATTATGCCCATCATATATTATGGACCTTATGGACTTCAAG
TGAATTCTGATAAAGGGCTAAAAGTAGGGGAAGTGTTTACTGTTGACCTTGGAGAGGCCATCCTATTTGA
TTGTTCTGCTGATTCTCATCCCCCCAACACCTACTCCTGGATTAGGAGGACTGACAATACTACATATATC
ATTAAGCATGGGCCTCGCTTAGAAGTTGCATCTGAGAAAGTAGCCCAGAAGACAATGGACTATGTGTGCT
GTGCTTACAACAACATAACCGGCAGGCAAGATGAAACTCATTTCACAGTTATCATCACTTCCGTAGGACT
GGAGAAGCTTGCACAGAAAGGAAAATCATTGTCACCTTTAGCAAGTATAACTGGAATATCACTATTTTTG
ATTATATCCATGTGTCTTCTCTTCCTATGGAAAAAATATCAACCCTACAAAGTTATAAAACAGAAACTAG
AAGGCAGGCCAGAAACAGAATACAGGAAAGCTCAAACATTTTCAGGCCATGAAGATGCTCTGGATGACTT
CGGAATATATGAATTTGTTGCTTTTCCAGATGTTTCTGGTGTTTCCAGGATTCCAAGCAGGTCTGTTCCA
GCCTCTGATTGTGTATCGGGGCAAGATTTGCACAGTACAGTGTATGAAGTTATTCAGCACATCCCTGCCC
AGCAGCAAGACCATCCAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

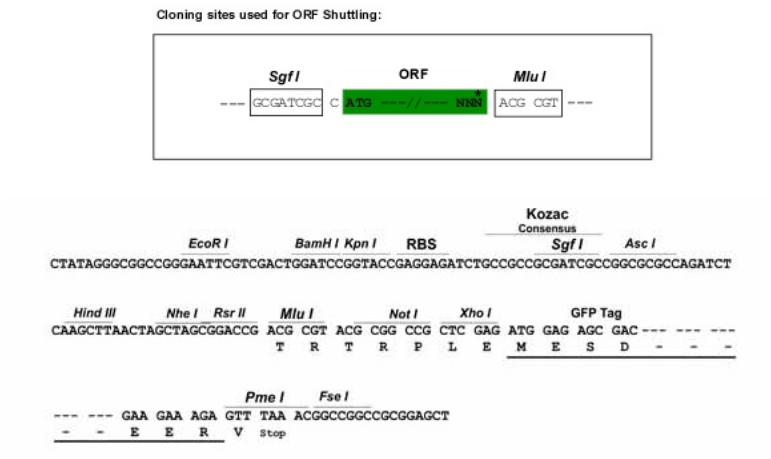
>RG212222 representing NM_198151
Red=Cloning site Green=Tags(s)

MWLKVFTTFLSFATGACSGLKVTVPSHTVHGVRGQALYLPVHYGFHTPASDIQIIWLFERPHTMPKYLLG
SVNKSVVPDLEYQHKFTMMPPNASLLINPLQFPDEGNYIVKVNIQGNGTLSASQKIQVTVDDPVTKPVVQ
IHPPSGAVEYVGNMTLTCHVEGGTRLAYQWLKNGRPVHTSSTYSFSPQNNTLHIAPVTKEDIGNYSCLVR
NPVSEMESDIIMPIIYYGPYGLQVNSDKGLKVGEVFTVDLGEAILFDCSADSHPPNTYSWIRRTDNTTYI
IKHGPRLEVASEKVAQKTMDYVCCAYNNITGRQDETHFTVIITSVGLEKLAQKGKSLSPLASITGISLFL
IISMCLLFLWKKYQPYKVIKQKLEGRPETEYRKAQTFSGHEDALDDFGIYEFVAFPDVSGVSRIPSRSVP
ASDCVSGQDLHSTVYEVIQHIPAQQQDHPE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

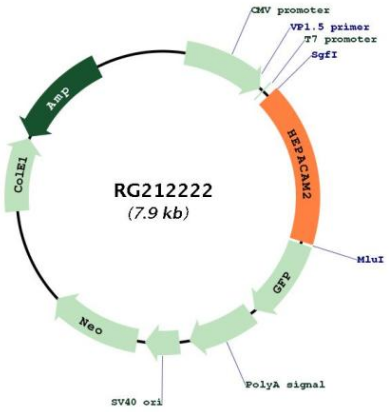


ACCN:	NM_198151
ORF Size:	1350 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_198151.1, NP_937794.1
RefSeq Size:	2110 bp
RefSeq ORF:	1353 bp
Locus ID:	253012
UniProt ID:	A8MVW5
Cytogenetics:	7q21.2

Protein Families: Transmembrane

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]

Product images:



Circular map for RG212222