

Product datasheet for **RG223693**

HEPACAM (NM_152722) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HEPACAM (NM_152722) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	HEPACAM
Synonyms:	GlialCAM; HEPN1; MLC2A; MLC2B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223693 representing NM_152722 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGAGAGAAAGGGGAGCCCTGTCCAGAGCCTCCAGGGCCCTGCGCCTTGCTCCTTTGTCTACCTTC
TTCTGATCCAGACAGACCCCTGGAGGGGGTGAACATCACCAGCCCGTGCCTGATCCATGGCACCGT
GGGAAGTCGGCTCTGCTTTCTGTGCAGTACAGCAGTACCAGCAGCGACAGGCCTGTAGTGAAGTGGCAG
CTGAAGCGGGACAAGCCAGTGACCGTGGTGCAGTCCATTGGCACAGAGGTCATCGGCACCCTGCGCCTG
ACTATCGAGACCGTATCCGACTTTTAAAATGGCTCCCTGCTTCTCAGCGACCTGCAGCTGGCCGATGA
GGGCACCTATGAGGTCGAGATCTCCATCACCAGCAGACCTTCACTGGGAGAAGACCATCAACCTTACT
GTAGATGTGCCATTTTCGAGGCCACAGGTGTTGGTGGCTTCAACCACTGTGCTGGAGCTCAGCGAGGCC
TCACCTTGAAGTCTCACATGAGAATGGCACCAAGCCAGCTACACCTGGCTGAAGGATGGCAAGCCCT
CCTCAATGACTCGAGAATGCTCCTGTCCCCGACCAAAAGGTGCTCACCATCACCCGCGTCTCATGGAG
GATGACGACCTGTACAGCTGCGTGGTGGAGAACCCATCAGCCAGGGCCGAGCCTGCCTGTCAAGATCA
CCGTATACAGAAGAAGCTCCCTTACATCATCTTGTCTACAGGAGGCATCTTCTCCTTGTGACCTTGGT
GACAGTCTGTGCTGCTGAAACCCTCCAAAAGGAAACAGAAGAAGCTAGAAAAGCAAACTCCCTGGAA
TACATGGATCAGAATGATGACCGCTGAAACCAGAAGCAGACACCTCCCTCGAAGTGGTGAAGCAGGA
GGAAGAACCCATGGCACTCTATATCCTGAAGGACAAGGACTCCCCGGAGACCGAGGAGAACCCGGCCCC
GGAGCCTCGAAGCGGACGGAGCCCGGCCCGCCGCTACTCCGTGTCTCCCGCGGTGCCGGCCGCTCG
CCGGGGTGCCATCCGCTCTGCCCGCCGCTACCCGCGCTCCCCAGCGCCTCCAGCCACCGGCCGGA
CACACTCGTCGCCGCCAGGGCCCCGAGCTCGCCGGCCGCTCGCGCAGCGCCTCGCGCACACTGCGGAC
TGCGGGCTGCACATAATCCGCGAGCAAGACGAGGCCGGCCCGGTGGAGATCAGCGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG223693 representing NM_152722
 Red=Cloning site Green=Tags(s)

MKRREGALSRSARLRLAPFVYLLLIQTDPLEGVNITSPVRLIHGTVGKSALLSVQYSSTSSDRPVVWQ
 LKRDKPVTVVQSIGTEVIGTLRPDYRDRIRLFENGSLLLSDLQLADEGTYEVEISITDDTFTGEKINLT
 VDVPISRPOVLVASTTVLELSEAFTLNCSHENGTKPSYTWLKDGPPLNDSRMLLSPDQKVLITITRVLME
 DDDL YSCVVENPISQGRSLPVKITVYRRSLYIILSTGGIFLLVTLVTVCACWKPSKRKQKLEKQNSLE
 YMDQNDDR LKPEADTLPRSGEQERKNPMALYILKDKDSPETEENPAPEPRSAATEPGPPGYVSPAVPGRS
 PGLPIRSARRYPRSPARSPATGRTHSSPPRAPSSPGRSRSASRTLRTAGVHIIREQDEAGPVEISA

TRTRPLE - GFP Tag - V

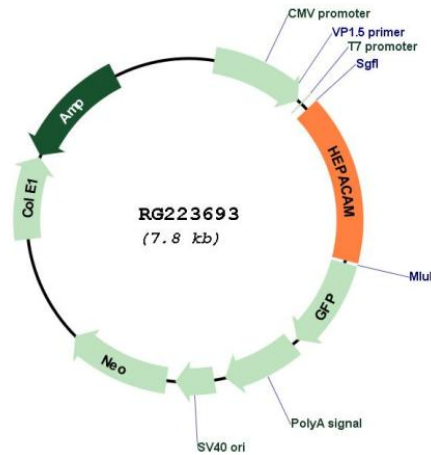
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_152722

ORF Size:	1248 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_152722.3 , NP_689935.1
RefSeq Size:	3258 bp
RefSeq ORF:	1251 bp
Locus ID:	220296
UniProt ID:	Q14CZ8
Cytogenetics:	11q24.2
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	The protein encoded by this gene is a single-pass type I membrane protein that localizes to the cytoplasmic side of the cell membrane. The encoded protein acts as a homodimer and is involved in cell motility and cell-matrix interactions. The expression of this gene is downregulated or undetectable in many cancer cell lines, so this may be a tumor suppressor gene. [provided by RefSeq, Jul 2011]