

Product datasheet for **RG223085**

EHM2 (EPB41L4B) (NM_018424) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EHM2 (EPB41L4B) (NM_018424) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EHM2
Synonyms:	CG1; EHM2; LULU2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG223085 representing NM_018424
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGCGGTTCTCTGCGCCGACCTTTGGCCGCCGCTCCATGCAGCGCTACGCGCGGGCGCGCGGGGCG
 GCGGGGCCGCGCGGCTGGGGGACGAGCGGATGGGGGCCACGGGGGGCCCGGCCGCGCCGCTCCTC
 CTCGGCGCTGCCGCGCGCCCGGGGAGCGTGTCCCGCGGGCGCGGGGCCCTGCTCACCGCGCGC
 GCGGCCGTGCACATCTCCGCCGCGCGCCGCAAGGCCACCCTCTACTGCCGCTTCTCTGCTCGACG
 GGACCGAAGTGAGCGTGGACCTGCCAAACATGCCAAAGGCCAGGATTTGTTTGATCAGATTGTGTACCA
 CTTGGACCTTGTGAAACAGATTACTTTGGCTCCAGTTCCTCGACTCTGCCAGGTTGCGCACTGGCTG
 GATCATGCCAAACCCATAAAAAAGCAGATGAAATTGGACCTGCTTATGCTTTACTTTTCGAGTTAAAT
 ACTATTCTTCAGAACAAACAACCTTCGTGAGGAGTTTACAAGGTACCTGTTTGTTTTACAACCTCAGGCA
 TGACATCTTTCTGAAAATTGAAATGCCCTTATGAAACAGCTGTGGAATTAGCTGCTCTGTCTACAA
 GCGGAGCTTGGGAGTGGGAGCTTCCAGAACACACACCAGAGCTTGTGTCTGAGTTTCGGTTCATCCAA
 ATCAGACAGAAGCAATGGAATTTGATATCTCCAGAGATGGAAAGAGTGCAGGGGAAAGGCCCTGCCCA
 GGCGGAATCTCCTATCTGAATAAAGCGAAGTGGCTGGAATGTATGGGGTAGACATGCACGTTGTCAGG
 GGAAGAGATGGCTGTGAATATTCTTTGGACTGACCCCGACAGGCATATTAATCTTTGAAGGAGTAAACA
 AAATAGGCTTATTCTTTTGGCCTAAAATTACCAAAATGGATTTTAAAAAGAGCAAATTGACACTCGTGGT
 GGTTCGAGGATGATGATCAGGGACGTGAGCAAGAGCACAGTTCGTTTCCGGTTAGACAGTGCAGGACC
 TGCAAACACCTTTGGAAGTGTGCAGTTGAGCACCACGCATTCTCCGACTGCGGACGCCAGGAAACAGCA
 AATCCAATAGATCCGACTTATCAGGCTGGCTCTCGCTTCAGATTAGTGGGCGGACAGAAATCAAGC
 TACACATGGCTCCAGGTTACGAAGAACCAGCACCTTTGAGAGGAAGCCTAGTAAACGTTATCCATCCCGG
 AGACATCAACGTTCAAAGCAAGCAACCCAGTGATAGCAGCCAGCTCTGCTCTAAAAACAAATCCAGAAG
 TCCATAATTACCAGCCTCAATATCATCCTAATATCCATCCAGCCAGCCCGGTGGCATCCTCACTCTCC
 AAATGTCAGGCCATCCTTTCAGGATGACAGGTCGATTGGAAAGCATCGGCCAGTGGAGATGACAGCCAT
 TTTGATTATGTCCAGCACCAGAACCAGAAGAACTTAGGAGGGATGCAAAGTATGATGATCGAGATAAAC
 TCATGACTGCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

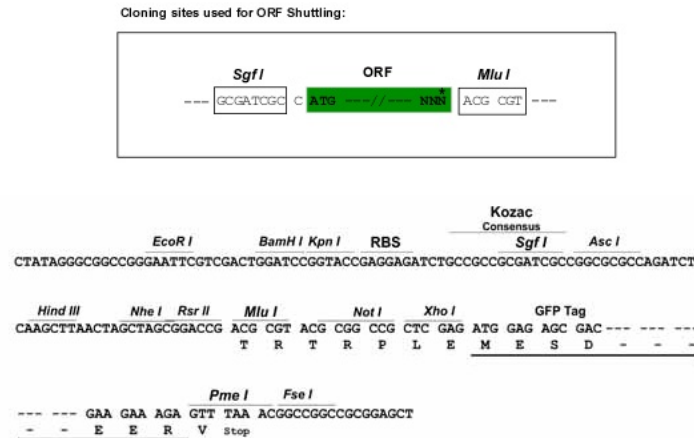
>RG223085 representing NM_018424
 Red=Cloning site Green=Tags(s)

MLRFLRRTFGRSMQRYARGAAGRGAAGLGDERDGGPRGGPAAAASSSALPAAPGGSVFPAGGGPLL TGG
 AAVHISAAGAATLYCRVFLLDGTEVSDLPKHAKGQDLFDQIVYHLDLVETDYFGLQLFLDSAQVAHWL
 DHAKPIKKQMKIGPAYALHFRVKYYSSEPNNLREEFTRYLFVLQLRHDILSGKPKPYETAVELAALCLQ
 AELGECELPEHTPELVSEFRFIPNQTEAMEFDIFQRWKECRGKSPAQAELSYLNKAKWLEMYGVMHVVR
 GRDGCEYSLGLTPTGILIFEGANKIGLFFWPKITKMDFKKSKLTLVVVEDDDQGREQEHTFVFRLDSART
 CKHLWKCAVEHHAFFRLRTPGNSKSNRSDFIRLGSRFSGRTEYQATHGSRLRRTSTFERKPSKRYPSR
 RHSTFKASNPVIAAQLCSKTNPVHNYQPQYHPNIHPSQPRWHPHPNVRPSFQDDRSHWKASASGDDSH
 FDYVVDQNQKNLGGMQSMMYRDKLM TAL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_018424

ORF Size: 1554 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_018424.3](#), [NP_060894.2](#)

RefSeq Size: 3783 bp

RefSeq ORF: 1557 bp

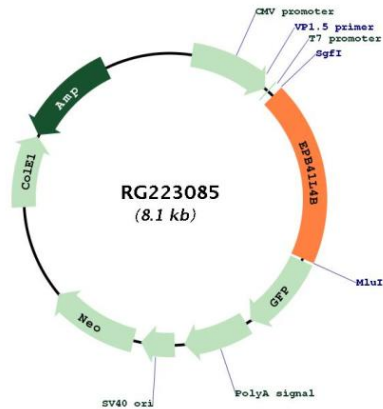
Locus ID: 54566

UniProt ID: [Q9H329](#)

Cytogenetics: 9q31.3

Gene Summary:

Up-regulates the activity of the Rho guanine nucleotide exchange factor ARHGEF18 (By similarity). Involved in the regulation of the circumferential actomyosin belt in epithelial cells (PubMed:22006950). Promotes cellular adhesion, migration and motility in vitro and may play a role in wound healing (PubMed:23664528). May have a role in mediating cytoskeletal changes associated with steroid-induced cell differentiation (PubMed:14521927). [UniProtKB/Swiss-Prot Function]

Product images:


Circular map for RG223085