

Product datasheet for **RG233613**

EB2 (MAPRE2) (NM_001256420) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EB2 (MAPRE2) (NM_001256420) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	EB2
Synonyms:	CSCSC2; EB1; EB2; RP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233613 representing NM_001256420 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAGAACAACAACGACATCATCCAGGATAATAACGGGACCATCATTCTTTCCGGAAGCACACAGT
GCGCGGGGAGCGTTCCTACAGGAGCGGCCTATTGCCAATTCATGGACATGCTCTTCCCTGGCTGCATTAG
TTTGAAGAAAGTAAAATTTCAAGCAAAGCTGGAACATGAATATATTCACAATTTAAACTTCTGCAAGCA
TCATTTAAGCGAATGAACGTTGATAAGGTAATTCAGTGGAGAAGCTAGTAAAGGACGTTTCCAGGACA
ACCTGGATTTTATCAATGGTTTAAGAAATTCATGATGCTAACTACGATGGGAAGGAGTATGATCCTGT
AGAGGCACGACAAGGGCAAGATGCAATTCCTCCTCCTGACCTGGTGAACAGATCTTCAACCTGCCAAAA
AAGTCTCACCATGCAAACTCCCCACAGCAGGTGCAGCTAAATCAAGTCCAGCAGCTAAACCAGGATCCA
CACCTTCTCGACCCTCATCAGCCAAAAGGGCTTCTTCCAGTGGCTCAGCATCCAAATCCGATAAAGATTT
AGAAACGCAGGTCATACAGCTTAATGAACAGGTACATTCATTAATAACTTGCCTTGAAGGCGTGGAAAAAG
GAAAGGGATTTCTACTTTGGGAAGTTGAGAGAGATCGAGTACTCTGCCAAGAACACGGGCGAGAAAAATG
ATGACCTCGTGCAGAGACTAATGGACATCCTGTATGCTTCAGAAGAACACGAGGGCCACACAGAAGAGCC
GGAAGCAGAGGAGCAAGCCCACGAACAGCAGCCCCCGCAGCAGGAAGAGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233613 representing NM_001256420
 Red=Cloning site Green=Tags(s)

MARTTTTSSRIITGPFSLSGSTQCAGSVPTGAAYCQFMDMLFPGCISLKKVKFQAKLEHEYIHNFKLLQA
 SFKRMNVDKVIPVEKLVKGRFQDNLDFIQWFKKFYDANYDGKEYDPVEARQGQDAIPPPDPGEQIFNLPK
 KSHHANSPTAGAAKSSPAAPGSTPSRPSAKRASSSGSASKSDKDLTQVIQLNEQVHSLKLALEGVEK
 ERDFYFGKLR E I E L L C Q E H G Q E N D D L V Q R L M D I L Y A S E E H E G H T E E P E A E E Q A H E Q Q P P Q E E Y

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_001256420

ORF Size: 822 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_001256420.2](#)

RefSeq Size: 4151 bp

RefSeq ORF: 825 bp

Locus ID: 10982

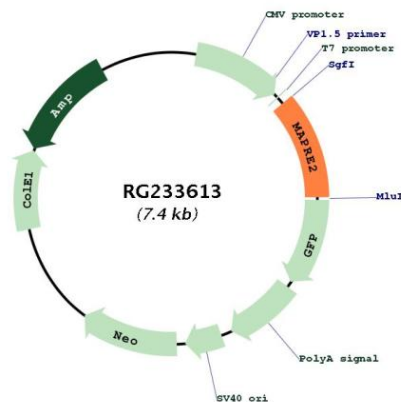
UniProt ID: [Q15555](#)

Cytogenetics: 18q12.1-q12.2

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene shares significant homology to the adenomatous polyposis coli (APC) protein-binding EB1 gene family. This protein is a microtubule-associated protein that is necessary for spindle symmetry during mitosis. It is thought to play a role in the tumorigenesis of colorectal cancers and the proliferative control of normal cells. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2012]

Product images:



Circular map for RG233613