

Product datasheet for **RG200259**

EB2 (MAPRE2) (NM_014268) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EB2 (MAPRE2) (NM_014268) 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:	>RG200259 representing NM_014268 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGTGGGCGGACCCAAACCTGTCCCAAATGGCGAGAACAACACGACATCATCCAGGATAATAACG
 GGACCATCATTCCTTTCCGGAAGCACACAGTGCAGGGGAGCGTTCCTACAGTTGGGGAATGGCGGTCAA
 TGTGTATTCTACCTCGATAACCCAAGAGACTATGAGCAGACATGACATCATTGCATGGGTTAATGACATA
 GTATCTTTAACTACACAAAAGTGAACAGCTTTGTTTCAGGAGCGGCCTATTGCCAATTCATGGACATGC
 TCTTCCCTGGCTGCATTAGTTTGAAGAAAGTAAAATTTCAAGCAAAGCTGGAACATGAATATATTCACAA
 TTTTAACTTCTGCAAGCATCATTTAAGCGAATGAACGTTGATAAGGTAATTCAGTGGAGAAGCTAGTG
 AAAGGACGTTTCCAGGACAACCTGGATTTTATTCAATGGTTTAAGAAATCTATGATGCTAACTACGATG
 GGAAGGAGTATGATCCTGTAGAGGCACGACAAGGCAAGATGCAATTCCTCCTCGACCTGGTGAACA
 GATCTTCAACCTGCCAAAAAGTCTCACCATGCAAACTCCCCACAGCAGGTGCAGCTAAATCAAGTCCA
 GCAGCTAAACCAGGATCCACACCTTCTCGACCCTCATCAGCCAAAAGGGCTTCTTCCAGTGGCTCAGCAT
 CCAATCCGATAAAGATTTAGAAACGCAGGTCATACAGCTTAATGAACAGGTACATTCATTAACCTTGC
 CCTTGAAGGCGTGAAAAGGAAAGGATTTCTACTTTGGGAAGTTGAGAGAGATCGAGCTACTCTGCCAA
 GAACACGGGCAGGAAAATGATGACCTCGTCAGAGACTAATGGACATCCTGTATGCTTCAGAAGAACACG
 AGGGCCACACAGAAGAGCCGGAAGCAGAGGAGCAAGCCACGAACAGCAGCCCCCGCAGCAGGAAGAGTA
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG200259 representing NM_014268
 Red=Cloning site Green=Tags(s)

MPGPTQTLSPNGENNNDIIQDNNGTIIPFRKHTVRGERSYSWGMVNVYSTSITQETMSRHDIIAWVNDI
 VSLNYTKVEQLCSGAAYCQFMDMLFPGCISLKKVKFQAKLEHEYIHNFKLLQASFMRNVDPKIPVEKLV
 KGRFQDNLDFIQWFKFYDANYDGKEYDPVEARQGQDAIPPPDPGEQIFNLPKSSHANSPTAGAAKSSP
 AAKPGSTPSRPSSAKRASSSGSASKSDKDLETQVIQLNEQVHSLKLALEGVEKERDFYFGKLEIELLCQ
 EHQQENDDLVQRLMDILYASEEHGHTEEPEAEEQAHEQPPQEEY

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014268

ORF Size: 981 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_014268.4</u>
RefSeq Size:	2578 bp
RefSeq ORF:	984 bp
Locus ID:	10982
UniProt ID:	<u>Q15555</u>
Cytogenetics:	18q12.1-q12.2
Domains:	CH, EB1
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 RG200259