

Product datasheet for **RG205659**

Proapoptotic Caspase Adaptor Protein (MZBI) (NM_016459) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Proapoptotic Caspase Adaptor Protein
Synonyms:	MEDA-7; PACAP; pERp1
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG205659 representing NM_016459
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAGGCTGTCACTGCCACTGCTGCTGCTGCTGCTGGGAGCCTGGGCCATCCCAGGGGGCCTCGGGGACA
GGGCGCCACTCACAGCCACAGCCCCACAACCTGGATGATGAGGAGATGTACTCAGCCACATGCCCGCTCA
CCTGCGCTGTGATGCCTGCAGAGCTGTGGCTTACCAGATGTGGCAAAATCTGGCAAAGGCAGAGACAAA
CTTCATACCTCAAACCTCTGGGGGGCGGGGAGCTGAGCGAGTTGGTCTACACGGATGTCTGGACCGGA
GCTGCTCCCGGAACCTGGCAGGACTACGGAGTTCGAGAAGTGACCAAGTGAAACGTCTCACAGGCCCAGG
ACTTAGCGAGGGGCCAGAGCCAAGCATCAGCGTGATGGTCACAGGGGGCCCTGGCCTACCAGGCTCTCC
AGGACATGTTTGCACTACTTGGGGGAGTTGGAGAAGACCAGATCTATGAAGCCACCAACAAGGCCGAG
GGGCTCTGGAGGCATTGCTATGTGGGGACCCAGGGGGCCTGCTCAGAGAAGGTGTCAGCCACAAGAGA
AGAGCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG205659 representing NM_016459
Red=Cloning site Green=Tags(s)

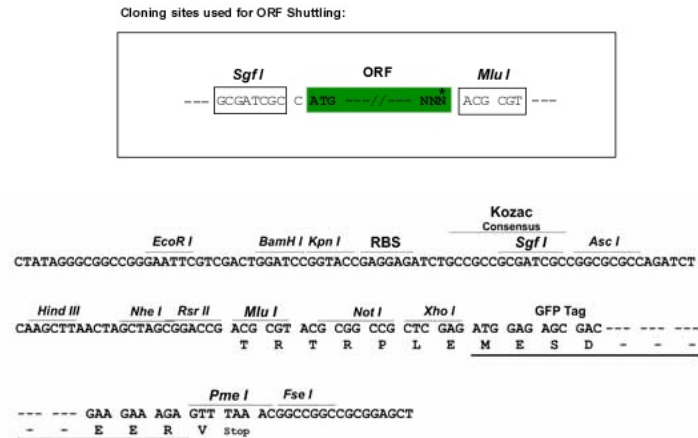
MRLSLPLLLLLGAWAIPGGLGDRAPLTATAPQLDDEEMSAHMPAHLRCDACRAVAYQMWQNLAKAETK
LHTSNSGGRRELSELVYTDVLDRLSCSRNWQDYGVREVDQVKRLTGPLSEGPEPSISVMVTGGPWPTRLS
RTCLHYLGEFGEDQIYEAHQGRGALEALLCGGPQGACSEKVSATREEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



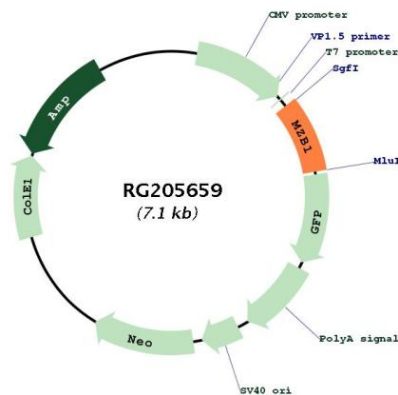
Cloning Scheme:



ACCN:	NM_016459
ORF Size:	567 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:	NM_016459.4
RefSeq Size:	845 bp

RefSeq ORF:	570 bp
Locus ID:	51237
UniProt ID:	Q8WU39
Cytogenetics:	5q31.2
Gene Summary:	Associates with immunoglobulin M (IgM) heavy and light chains and promotes IgM assembly and secretion. May exert its effect by acting as a molecular chaperone or as an oxidoreductase as it displays a low level of oxidoreductase activity (By similarity). Isoform 2 may be involved in regulation of apoptosis. Helps to diversify peripheral B-cell functions by regulating Ca(2+) stores, antibody secretion and integrin activation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG205659