

## **Product datasheet for RG203256**

### OriGene Technologies, Inc.

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## Major Basic Protein (PRG2) (NM\_002728) Human Tagged ORF Clone

#### **Product data:**

**Product Type:** Expression Plasmids

Product Name: Major Basic Protein (PRG2) (NM\_002728) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: Major Basic Protein

**Synonyms:** BMPG; MBP; MBP1; proMBP

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG203256 representing NM\_002728

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CACTGCCTCAGAAGACTTCCTTTCATCTGTTCCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA





**Protein Sequence:** >RG203256 representing NM\_002728

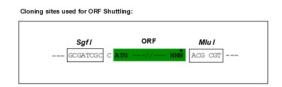
Red=Cloning site Green=Tags(s)

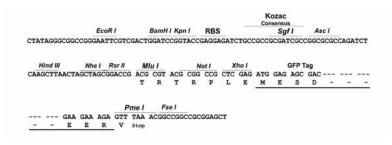
MKLPLLALLFGAVSALHLRSETSTFETPLGAKTLPEDEETPEQEMEETPCRELEEEEEWGSGSEDASKK DGAVESISVPDMVDKNLTCPEEEDTVKVVGIPGCQTCRYLLVRSLQTFSQAWFTCRRCYRGNLVSIHNFN INYRIQCSVSALNQGQVWIGGRITGSGRCRRFQWVDGSRWNFAYWAAHQPWSRGGHCVALCTRGGYWRRA HCLRRLPFICSY

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_002728

ORF Size: 666 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: <u>NM 002728.4</u>, <u>NP 002719.3</u>

 RefSeq Size:
 874 bp

 RefSeq ORF:
 669 bp

 Locus ID:
 5553

 UniProt ID:
 P13727

 Cytogenetics:
 11q12.1

Domains: CLECT

**Protein Families:** Secreted Protein

**Protein Pathways:** Asthma

**Gene Summary:** The protein encoded by this gene is the predominant constituent of the crystalline core of the

eosinophil granule. High levels of the proform of this protein are also present in placenta and

pregnancy serum, where it exists as a complex with several other proteins including pregnancy-associated plasma protein A (PAPPA), angiotensinogen (AGT), and C3dg. This

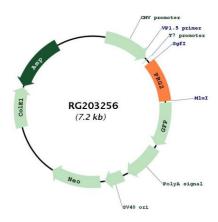
protein may be involved in antiparasitic defense mechanisms as a cytotoxin and

helminthotoxin, and in immune hypersensitivity reactions. The encoded protein contains a peptide that displays potent antimicrobial activity against Gram-positive bacteria, Gram-negative bacteria, and fungi. It is directly implicated in epithelial cell damage, exfoliation, and bronchospasm in allergic diseases. Alternatively spliced transcript variants encoding different

isoforms have been found for this gene. [provided by RefSeq, Nov 2014]



# **Product images:**



Circular map for RG203256