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# Product datasheet for RG240133

## BLM (NM_001287246) Human Tagged ORF Clone

### Product data:

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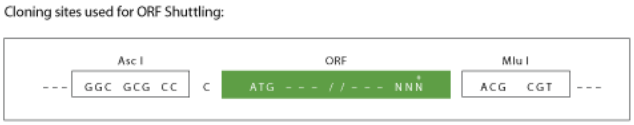
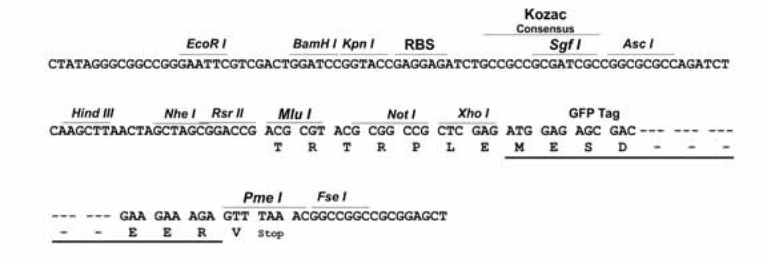
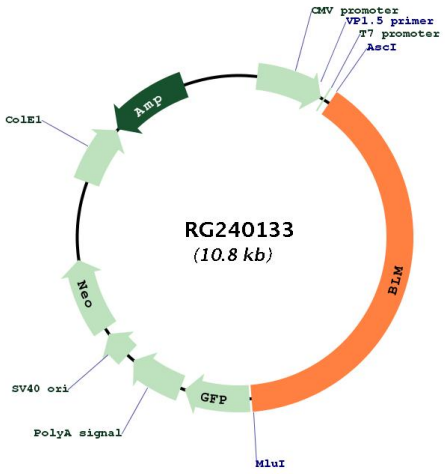
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | BLM (NM_001287246) Human Tagged ORF Clone |
| **Tag:** | TurboGFP |
| **Symbol:** | BLM |
| **Synonyms:** | BS; MGRISCE1; RECQ2; RECQL2; RECQL3 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-AC-GFP (PS100010) |
| **E. coli Selection:** | Ampicillin (100 ug/mL) |
| **Restriction Sites:** | AscI-MluI |
| **Cloning Scheme:** | |




View online »

Plasmid Map:

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|---|---|
| **ACCN:** | NM_001287246 |
| **ORF Size:** | 4251 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). |
| **RefSeq:** | NM_001287246.2 |
| **RefSeq Size:** | 4665 bp |
| **RefSeq ORF:** | 4254 bp |
| **Locus ID:** | 641 |
| **UniProt ID:** | P54132 |
| **Cytogenetics:** | 15q26.1 |
| **Protein Families:** | Druggable Genome, Stem cell - Pluripotency |

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| **Protein Pathways:** | Homologous recombination |
| **MW:** | 159.5 kDa |
| **Gene Summary:** | The Bloom syndrome is an autosomal recessive disorder characterized by growth deficiency, microcephaly and immunodeficiency among others. It is caused by homozygous or compound heterozygous mutation in the gene encoding DNA helicase RecQ protein on chromosome 15q26. This Bloom-associated helicase unwinds a variety of DNA substrates including Holliday junction, and is involved in several pathways contributing to the maintenance of genome stability. Identification of pathogenic Bloom variants is required for heterozygote testing in at-risk families. [provided by RefSeq, May 2020] |