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Product datasheet for SC337802

BLM (NM_001287248) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BLM (NM_001287248) Human Untagged Clone
Tag:	Tag Free
Symbol:	BLM
Synonyms:	BS; MGRISCE1; RECQ2; RECQL2; RECQL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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Fully Sequenced ORF: >NCBI ORF sequence for NM_001287248, the custom clone sequence may differ by one or more nucleotides

ATGGAGCACATCTGTAAATTAATTGATACTATTCCTGATGATAAACTGAAACTTTTGGATTGTGGGAACG
AACTGCTTCAGCAGCGGAACATAAGAAGGAAACTTCTAACGGAAGTAGATTTTAATAAAAGTGATGCCAG
TCTTCTTGGCTCATTGTGGAGATACAGGCCTGATTCACTTGATGGCCCTATGGAGGGTGATTCCTGCCCT
ACAGGGAATTCTATGAAGGAGTTAAATTTTTCACACCTTCCCTCAAATTCTGTTTCTCCTGGGGACTGTT
TACTGACTACCACCCTAGGAAAGACAGGATTCTCTGCCACCAGGAAGAATCTTTTTGAAAGGCCTTTATT
CAATACCCATTTACAGAAGTCCTTTGTAAGTAGCAACTGGGCTGAAACACCAAGACTAGGAAAAAAAAAT
GAAAGCTCTTATTTCCCAGGAAATGTTCTCACAAGCACTGCTGTGAAAGATCAGAATAAACATACTGCTT
CAATAAATGACTTAGAAAGAGAAACCCAACCTTCCTATGATATTGATAATTTTGACATAGATGACTTTGA
TGATGATGATGACTGGGAAGACATAATGCATAATTTAGCAGCCAGCAAATCTTCCACAGCTGCCTATCAA
CCCATCAAGGAAGGTCGGCCAATTAAATCAGTATCAGAAAGACTTTCCTCAGCCAAGACAGACTGTCTTC
CAGTGTCATCTACTGCTCAAAATATAAACTTCTCAGAGTCAATTCAGAATTATACTGACAAGTCAGCACA
AAATTTAGCATCCAGAAATCTGAAACATGAGCGTTTCCAAAGTCTTAGTTTTCCTCATACAAAGGAAATG
ATGAAGATTTTTCATAAAAAATTTGGCCTGCATAATTTTAGAACTAATCAGCTAGAGGCGATCAATGCTG
CACTGCTTGGTGAAGACTGTTTTATCCTGATGCCGACTGGAGGTGGTAAGAGTTTGTGTTACCAGCTCCC
TGCCTGTGTTTCTCCTGGGGTCACTGTTGTCATTTCTCCCTTGAGATCACTTATCGTAGATCAAGTCCAA
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TTTACCTCCAGTTATCAAAAAAAGACCCAATCATAAAACTTCTATATGTCACTCCAGAAAAGATCTGTGC
AAGTAACAGACTCATTTCTACTCTGGAGAATCTCTATGAGAGGAAGCTCTTGGCACGTTTTGTTATTGAT
GAAGCACATTGTGTCAGTCAGTGGGGACATGATTTTCGTCAAGATTACAAAAGAATGAATATGCTTCGCC
AGAAGTTTCCTTCTGTTCCGGTGATGGCTCTTACGGCCACAGCTAATCCCAGGGTACAGAAGGACATCCT
GACTCAGCTGAAGATTCTCAGACCTCAGGTGTTTAGCATGAGCTTTAACAGACATAATCTGAAATACTAT
GTATTACCGAAAAAGCCTAAAAAGGTGGCATTTGATTGCCTAGAATGGATCAGAAAGCACCACCCATATG
ATTCAGGGATAATTTACTGCCTCTCCAGGCGAGAATGTGACACCATGGCTGACACGTTACAGAGAGATGG
GCTCGCTGCTCTTGCTTACCATGCTGGCCTCAGTGATTCTGCCAGAGATGAAGTGCAGCAGAAGTGGATT
AATCAGGATGGCTGTCAGGTTATCTGTGCTACAATTGCATTTGGAATGGGGATTGACAAACCGGACGTGC
GATTTGTGATTCATGCATCTCTCCCTAAATCTGTGGAGGGTTACTACCAAGAATCTGGCAGAGCTGGAAG
AGATGGGGAAATATCTCACTGCCTGCTTTTCTATACCTATCATGATGTGACCAGACTGAAAAGACTTATA
ATGATGGAAAAAGATGGAAACCATCATACAAGAGAAACTCACTTCAATAATTTGTATAGCATGGTACATT
ACTGTGAAAATATAACGGAATGCAGGAGAATACAGCTTTTGGCCTACTTTGGTGAAAATGGATTTAATCC
TGATTTTTGTAAGAAACACCCAGATGTTTCTTGTGATAATTGCTGTAAAACAAAGGATTATAAAACAAGA
GATGTGACTGACGATGTGAAAAGTATTGTAAGATTTGTTCAAGAACATAGTTCATCACAAGGAATGAGAA
ATATAAAACATGTAGGTCCTTCTGGAAGATTTACTATGAATATGCTGGTCGACATTTTCTTGGGGAGTAA
GAGTGCAAAAATCCAGTCAGGTATATTTGGAAAAGGATCTGCTTATTCACGACACAATGCCGAAAGACTT
TTTAAAAAGCTGATACTTGACAAGATTTTGGATGAAGACTTATATATCAATGCCAATGACCAGGCGATCG
CTTATGTGATGCTCGGAAATAAAGCCCAAACTGTACTAAATGGCAATTTAAAGGTAGACTTTATGGAAAC
AGAAAATTCCAGCAGTGTGAAAAAACAAAAAGCGTTAGTAGCAAAAGTGTCTCAGAGGGAAGAGATGGTT
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ATATTTTTAATACCGTCACTCTCAAGAAGCTTGCAGAATCTTTATCTTCTGATCCTGAGGTTTTGCTTCA
AATTGATGGTGTTACTGAAGACAAACTGGAAAAATATGGTGCGGAAGTGATTTCAGTATTACAGAAATAC
TCTGAATGGACATCGCCAGCTGAAGACAGTTCCCCAGGGATAAGCCTGTCCAGCAGCAGAGGCCCCGGAA
GAAGTGCCGCTGAGGAGCTCGACGAGGAAATACCCGTATCTTCCCACTACTTTGCAAGTAAAACCAGAAA
TGAAAGGAAGAGGAAAAAGATGCCAGCCTCCCAAAGGTCTAAGAGGAGAAAAACTGCTTCCAGTGGTTCC
AAGGCAAAGGGGGGGTCTGCCACATGTAGAAAGATATCTTCCAAAACGAAATCCTCCAGCATCATTGGAT
CCAGTTCAGCCTCACATACTTCTCAAGCGACATCAGGAGCCAATAGCAAATTGGGGATTATGGCTCCACC
GAAGCCTATAAATAGACCGTTTCTTAAGCCTTCATATGCATTCTCATAA

Restriction Sites: AscI-MluI

ACCN:	NM_001287248
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_001287248.1, NP_001274177.1
RefSeq Size:	4721 bp
RefSeq ORF:	3129 bp
Locus ID:	641
UniProt ID:	P54132
Cytogenetics:	15q26.1
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Homologous recombination
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] Transcript Variant: This variant (4) uses an alternate splice site in a 5' exon and uses a downstream translation start compared to variant 1. The resulting protein (isoform 3) is shorter and has a distinct N-terminus compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.