

Product datasheet for **SC127050**

Lamin B Receptor (LBR) (NM_194442) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lamin B Receptor (LBR) (NM_194442) Human Untagged Clone
Tag:	Tag Free
Symbol:	Lamin B Receptor
Synonyms:	C14SR; DHCR14B; LMN2R; PHA; PHASK; TDRD18
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC127050 sequence for NM_194442 edited (data generated by NextGen Sequencing)

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ATGCCAAGTAGGAAATTTGCCGATGGTGAAGTGGTAAGAGGTCGATGGCCTGGGAGTTCA
CTTTATTATGAAGTAGAAATCTGAGCCACGACAGCACCTCCCAGCTTTACACTGTGAAG
TATAAAGATGGAACAGAGCTTGAATTGAAAGAGAATGATATTAAGCCTTTAACTTCCTTT
AGGCAAAGGAAAGGTGGCTCAACTTCCAGTTCCTTCCAGACGCCGAGGGAGTCGATCA
AGGTCACGCTCCCGATCCCCTGGTCGACCACCTAAAAGTGCCCGCGATCTGCTTCTGCT
TCCCACCAGGCCGACATTAAGGAAGCAAGGAGGGAAGTGGAAGTTAAATTGACTCCGCTG
ATTCTGAAGCCATTTGGAATAGCATCAGCAGATAAATGGGGAGCCTGAGCATATTGAG
AGAAATGACGCACCTCATAAAAAACACAGGAAAAATTCAGTTTGTACACAAGAAAGCAGT
TACATAGCAACACAGTATAGCCTTCGTCCAAGAAGAGAAGAAAGTCAAATTTAAAGAAATA
GATTCTAAGGAAGAAAAACGTTGCAAAAAGAACTGGCAGTGAGAACCTTTGAAGTGACC
CCCATCCGGGCAAAGGACTTGGAGTTTGGAGGAGTACCTGGTGTGTTTCTCATCATGTTT
GGCCTGCCTGTGTTCTCTTCTGTTGCTGTTGATGTGTAACAGAAAGATCCCAGTCTT
CTGAATTTCCCTCCTCTTTGCCAGCTTTGTATGAGTTATGGGAAACCAGAGATTTGGG
GTCTACCTCCTGTGGTTTTGATTCAAGTCCTGTTCTACCTACTGCCAATTGGAAGGTT
GTAGAAGGAACGCCTCTTATTGATGGAAGAAGACTCAAGTATAGATTAATGATTCTAT
GCTTTTATCCTGACATCTGCAGTCATCGGAACATCTCTCTCCAGGGCGTAGAGTTTCAT
TACGTGTACAGTCATTTTCTTCAAGTTTGCACCTTGGCGCCACTGTTTTTGTGGTCTTG
AGTGTGTATCTCTACATGCGCTCTTTGAAAGCGCCCGGAATGACCTGTCGCCTGCCAGC
TCTGGAATGCTGTCTATGATTTCTTATTGGCCGTGAATTAACCCCTCGAATTGGTACT
TTGGTGATGCTTTTGGCTGAAATGAAAAACAGGACCCGCTGTTCCATCCTTGGCCATG
ATTTTAGTTAATAGTTTCCAGCTTCTCTATGTGGTGAGTCTCTGGAATGAGGAAGCG
TTGTTGACGACCATGGACATCATCCACGATGGATTTGGATTTCATGCTGGCTTTTGGAGAC
TTGGTGTGGGTTCCCTTTATTTACAGCTTCCAAGCCTTTTATTTAGTCAGTCATCCAAAT
GAAGTGTCTTGGCCAATGGCTTCTAATTATTGTTCTGAAACTTTGTGGTTATGTAATC
TTCCGAGGTGCAAATTCAGAAAAATGCATTCGGAAAAATCCCAGTGATCCAAAGCTT
GCACATTTAAAAACCATTACACTTCAACGGGAAAAAATCTTCTAGTTTCTGGATGGTGG
GGCTTTGTTGCCACCCCAATTACTTGGGTGATCTCATCATGGCCTTGGCGTGGTCCCTC
CCATGTGGTTTTAACACATTCTGCCTTATTTCTACATAATTTATTTACCATGTTGCTT
GTCCACCAGAGAAGCTCGTGACGAGTACCACTGTAAAGAAGAAATACGGCGTGGCTTGGGAA
AAGTACTGTCAGCGTGTGCCCTACCGTATATTTCCATACATCTACTAA
    
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Clone variation with respect to NM_194442.2

5' Read Nucleotide Sequence: >OriGene 5' read for NM_194442 unedited

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TCACCGCCGGAACCTGGCGCAGGTTAATTATAGAAAATGCCAAGTAGGAAATTTGCCGAT
GGTGAAGTGGTAAGAGGTCGATGGCCTGGGAGTTCACTTTATTATGAAGTAGAAATCTG
AGCCACGACAGCACCTCCAGCTTTACACTGTAAAGTATAAAGATGGAACAGAGCTTGAA
TTGAAAGAGAATGATATTAAGCCTTTAACTTCTTTAGGCAAAGGAAAGGTGGCTCAACT
TCCAGTTCCTTCCAGACGCCGAGGGAGTCGATCAAGGTCACGCTCCCGATCCCCCGGT
CGACCACCTAAAAGTGCCCGCGATCTGCTTCTGCTTCCCACCAGGCCGACATTAAGGAA
GCAAGGAGGGAAGTGAAGTTAAATTGACTTCGCTGATTCTGAAGCCATTTGAAATAGC
ATCAGCAGATTTAATGGGGAAGCCTGAGCATATTGAGAGAAATGACGCACCTCATAAAAA
TACACAGGAAAAATCAATTTGTACAAGAAAGCAGTTACATAGCAACACAGTATAGCCT
TCGTCCAAGAAGAGAAGAAGTCAAATTTAAAGAAATAGATTCCTAAGGAAGAAAAATACC
TTTGCAAAGGACTTGGCCGTGAAGACCTTTNTAAAGTGACCCTCATCNCGGGCCAAGGA
CTTGGGAGTTTGGGAGGAGTACCCTTGGCGGNTTTTCTACTCATGTTTGGCCCCGCCG
GGNTTCTTCTCTCTGTTGGCCGNTGGAAGTGGTGAACAGAAAGAAATACCAAGCCTT
CTGGAATTTTCCCTCCTCTTNACACACTCTGTTTGGAGATTATGAGAACACCCGNA
GTATTTGGGCTTTC
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_194442 unedited GGGTCTTCTCTGGNACCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTG ATCAAAATGTTGTACATTTTATTTTCAACTTAAACTTCATTATAAAATTTGCCAAATA AACATGTCAAAAACAACTTAAAAACAAAGTGTAGCTGATATCCAGAAATGCAGCACTG TATTGATAAAGGGCTCTTTTCATTACCAGGAAAGAATTAATGTCCTTCCTCCTCCCC AAAAGCTTCCTTGGTGAATCCAGTACAGAAAACGCCACCCTTCTGATGCCAGGAGAA AAGCAAAATAAAAAACTGCTTGCACACATTAGCACTGATAAAACAATGACAATTTCACT AAAAGAATGTTTAAAGACTACCGGATGCTGGAGCAAACCAACTTCATGACTGCATTAACA TAAGCTAAGTTACATACACTTCAAATGCAGTATAGAATTAACACTGCATATCTAAATGGC TCATATATAAAATGTGTAATTAACCCAAACATACACACTATGTTTATTACATTCCTCCT ACATTGAAAGTACTGAGAACAATTTAACTCTGAACACAAAAGTTTAGTGAATTTGCTACT GTTCCATTACAGGACAATTAATAAGACTATATCAACTTCACTAGAATTTAATTGCTA AAGCTACCTTATGCACATCTATTAACACTAAAAGAAACGACTTTAACCCCTTCAGTTGTTT TTAAGACAGCACTCCTTTACAGGGAGTCAGGTTTGGTAAATATAAAGGATACATAAAAA TACAGTATAAACTGCATAAGCTTAACAGTAGCAAACACTGATGAACTTTAAAAGTCAA AAAATATAAAAAATATAGCCTGAATGGGCAATNTCAAACACGATCTGTGTANAATGTTAA TATTGATGACTCCAATATATAC
Restriction Sites:	NotI-NotI
ACCN:	NM_194442
Insert Size:	3890 bp
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:	<ol style="list-style-type: none"> 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_194442.1</u> , <u>NP_919424.1</u>
RefSeq Size:	3789 bp
RefSeq ORF:	1848 bp
Locus ID:	3930
UniProt ID:	<u>Q14739</u>
Cytogenetics:	1q42.12
Protein Families:	Druggable Genome, Transmembrane

Gene Summary:

The protein encoded by this gene belongs to the ERG4/ERG24 family. It localized in the nuclear envelope inner membrane and anchors the lamina and the heterochromatin to the membrane. It may mediate interaction between chromatin and lamin B. Mutations of this gene has been associated with autosomal recessive HEM/Greenberg skeletal dysplasia. Alternative splicing occurs at this locus and two transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.