

## Product datasheet for **SC109384**

### Lamin B Receptor (LBR) (NM\_002296) Human Untagged Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                                     |
| Product Name:             | Lamin B Receptor (LBR) (NM_002296) Human Untagged Clone |
| Tag:                      | Tag Free  |
| Symbol:                   | Lamin B Receptor  |
| Synonyms:                 | C14SR; DHCR14B; LMN2R; PHA; PHASK; TDRD18               |
| Mammalian Cell Selection: | None  |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                  |



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC109384 sequence for NM\_002296 edited (data generated by NextGen Sequencing)

```
ATGCCAAGTAGGAAATTTGCCGATGGTGAAGTGGTAAGAGGTCGATGGCCTGGGAGTTCA
CTTTATTATGAAGTAGAAATCTGAGCCACGACAGCACCTCCCAGCTTTACACTGTAAAG
TATAAAGATGGAACAGAGCTTGAATTGAAAGAGAATGATATTAAGCCTTTAACTTCCTTT
AGGCAAAGGAAAGGTGGCTCAACTTCCAGTTCCTCCAGACGCGGAGGGAGTCGATCA
AGGTCACGCTCCCGATCCCCTGGTCCGACCACCTAAAAGTGCCCGCCGATCTGCTTCTGCT
TCCCACCAGGCCGACATTAAGGAAGCAAGGAGGGAAGTGAAGTTAAATTGACTCCGCTG
ATTCTGAAGCCATTTGGAATAGCATCAGCAGATAAATGGGGAGCCTGAGCATATTGAG
AGAAATGACGCACCTCATAAAAAACACAGGAAAAATCAATTTGTCACAAGAAAGCAGT
TACATAGCAACACAGTATAGCCTTCGTCCAAGAAGAGAAGAAAGTCAAATTAAGAAATA
GATTCTAAGGAAGAAAAACGTTGCAAAAAGAACTGGCAGTGAGAACCTTTGAAGTGACC
CCCATCCGGGCAAAGGACTTGGAGTTTGGAGGAGTACCTGGTGTGTTTCTCATCATGTTT
GGCCTGCCTGTGTTCTCTTCTGTTGCTGTTGATGTGTAACAGAAAGATCCCAGTCTT
CTGAATTTCCCTCCTCTTTGCCAGCTTTGTATGAGTTATGGGAAACCAGAGATTTGGG
GTCTACCTCCTGTGGTTTTGATTCAAGTCCTGTTCTACCTACTGCCAATTTGAAAGGTT
GTAGAAGGAACGCCTCTTATTGATGGAAGAAGACTCAAGTATAGATTAATGATTCTAT
GCTTTTATCCTGACATCTGCAGTCATCGGAACATCTCTTCCAGGGCGTAGAGTTTCAT
TACGTGTACAGTCATTTTCTTCCAGTTTGCACCTTGGCGCCACTGTTTTTGTGGTCTTG
AGTGTGTATCTCTACATGCGCTCTTTGAAAGCGCCCGGAATGACCTGTCGCCTGCCAGC
TCTGGAATGCTGTCTATGATTTCTTATTGGCCGTGAATTAACCCTCGAATTGGTACT
TTGGTGATGCTTTTGGCTGAAATGAAAAACAGGACCGCGCTGTTCCATCCTTGGCCATG
ATTTTAGTTAATAGTTTCCAGCTTCTCTATGTGGTGGATGCTCTCTGGAATGAGGAAGCG
TTGTTGACGACCATGGACATCATCCACGATGGATTTGGATTTCATGCTGGCTTTTGGAGAC
TTGGTGTGGGTTCCCTTTATTTACAGCTTCCAAGCCTTTTATTTAGTCAGTCATCCAAAT
GAAGTGTCTTGGCCAATGGCTTCTAATTATTGTTCTGAAACTTTGTGGTTATGTAATC
TTCCGAGGTGCAAATTCAGAAAAATGCATTCGGAAAAATCCCAGTGATCCAAAGCTT
GCACATTTAAAAACCATTACATCTCAACGGGAAAAATCTTCTAGTTTCTGGATGGTGG
GGCTTTGTTCGCCACCCCAATTACTTGGGTGATCTCATCATGGCCTTGGCGTGGTCCCTC
CCATGTGGTTTTAACCACATTCTGCCTTATTTCTACATAATTTATTTACCATGTTGCTT
GTCCACCAGAGAAGCTCGTGACGAGTACCACTGTAAAGAAGAAATACGGCGTGGCTTGGGAA
AAGTACTGTCAGCGTGTGCCCTACCGTATATTTCCATACATCTACTAA
```

Clone variation with respect to NM\_002296.3  
117 g=>a;461 g=>a

|                                     |   |
|-------------------------------------|---|
| <b>5' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 5' read for NM_002296 unedited</p> <pre> TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCGCGCTGGATCT GCCGCCGGTTGCTGTGCGACTATTCTCCGGGAGCCGTCCGTGTACCCGCCGGAACCTGG CGCAGGTTAATTATAGAAAATGCCAAGTAGGAAATTTGCCGATGGTGAAGTGGTAAGAGG TCGATGGCCTGGGAGTTCACTTTATTATGAAGTAGAAATCTGAGCCACGACAGCACCTC CCAGCTTTACACTGTAAGTATAAAGATGGAACAGAGCTTGAATTGAAAGAGAATGATAT TAAGCCTTTAACTTCCTTTAGGCAAAGGAAAGGTGGCTCAACTCCAGTTCCTCCCTCCAG ACGCCGAGGAGTCGATCAAGGTCACGCTCCCGATCCCCCGTCCGACCACTAAAAGTGC CCGCCGATCTGCTTCTGCTTCCACCAGCCGACATTAAGGAAGCAAGGAGGGAAGTGGAA AGTTAAATTGACTCCGCTGATTCTGAAGCCATTTGAAAATAGCATCAGCAGATATAATGG GGAGCCTGAGCATATTGAGAGAAATGACGCACCTCATAAAAATACACAGGAAAAATTCAA TTTGTCAACAAGAAAGCAGTTACATAGCAACACAGTATAGCCTTCGTCCAAGAAGAGAAGA AGTCAAATTTAAAGAAAATAGATTCTAAGGAAGANAATACGTTGCANAAGAACTGGCAGT GAGAACCTTTNGAGTGACCCCCATCCGGGCAAAGGACTTGGNNAGTTGGAGGAGTACCTG GTGTGTTTCTCATCATGGTTGGCTGGCTGTAGTCTCTTCTCTGGNTGCTGTGATGTGTA ACAGAAAGATCCCAGTCTTCTGAATTTCTTCTNCTTTGCAGCTTGATGAG </pre>   |
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_002296 unedited</p> <pre> GCCCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGATCAAAAGTTGCTACAT TTTATTTTCAACTTAAAACCTTATTATAAAAATTTGCCAAATAAACATGTCAAAAACAAC TTAAAAACAAAGTGTAGCTGATATCCAGAAATTCAGCACTGTATTGATAAAGGGCTCTT TTCATTACCAGGAAAGAAATTTAATGTCCTTCTTCTCCCAAAGCTTCTTGGTGCA ATCCAGTACAGAAAACGCCACCCTTTCTGATGCCAGGAGAAAAGCAAAAATAAAAAAAT GCTTGCACACATTAGCACTGATAAAAACAATGACAATTTCACTAAAAGAATGTTTAAAGAC TACCGGATGCTGGAGCAAACCACTTCATGACTGCATTAACATAAGCTAAGTTACATACA CTTCAAATGCAGTATAGAATTAACACTGCATATCTAAATGGCTCATATATAAAATGTGTA ATTAACCCAAACATACACACTATGTTTATTACATTCCTTACATTGAAAGTACTGAGA ACAATTTAACTCTGAACACAAAAGTTTGTGAAATTTGCTACTGTTCCATTACAGGACAAT TAAAAATGAGACTATATCACTTCACTAGAATTTAATTGCTAAAGCTACCTTATGCACAT CTATTAACCTAAAAGAAACGACTTAAACCCCTTCACTGTTTAAAGACAGCACTCCTTT ACAGGGAGTCANGTTNGGGTAATAAAGGATACCTAAAAAATACAGTATAAACTGCATAA GCTTAACAGTAGCCAAAACACTGATGGACCTTTTAAAGTCAAAAATATATAAAAATATT AGCCTGGAATGGCAAATNTCAACACCCGATCTGGTAAAAATGGTTAATATGGATGGCT CCAAAAATATACTATNCTATTTTTTTCTATTTGCACAGTTGT </pre> |
| <b>Restriction Sites:</b>           | NotI-NotI   |
| <b>ACCN:</b>                        | NM_002296   |
| <b>Insert Size:</b>                 | 4200 bp   |
| <b>OTI Disclaimer:</b>              | 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).  |
| <b>Components:</b>                  | 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).  |

|                               |  |
|-------------------------------|--|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>  |
| <b>RefSeq:</b>                | <a href="#">NM_002296.2</a> , <a href="#">NP_002287.2</a>  |
| <b>RefSeq Size:</b>           | 3806 bp  |
| <b>RefSeq ORF:</b>            | 1848 bp  |
| <b>Locus ID:</b>              | 3930   |
| <b>UniProt ID:</b>            | <a href="#">Q14739</a>   |
| <b>Cytogenetics:</b>          | 1q42.12  |
| <b>Domains:</b>               | ERG4_ERG24, TUDOR  |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane  |
| <b>Gene Summary:</b>          | <p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.</p> |