

## Product datasheet for **SC126638**

### **LMBR1 (NM\_022458) Human Untagged Clone**

#### **Product data:**

|                           |                                                |
|---------------------------|------------------------------------------------|
| Product Type:             | Expression Plasmids                            |
| Product Name:             | LMBR1 (NM_022458) Human Untagged Clone         |
| Tag:                      | Tag Free                                       |
| Symbol:                   | LMBR1                                          |
| Synonyms:                 | ACHP; C7orf2; DIF14; LSS; PPD2; THYP; TPT; ZRS |
| Mammalian Cell Selection: | None                                           |
| Vector:                   | <u>pCMV6-XL5</u>                               |
| E. coli Selection:        | Ampicillin (100 ug/mL)                         |



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**Fully Sequenced ORF:** >OriGene ORF within SC126638 sequence for NM\_022458 edited (data generated by NextGen Sequencing)

```
ATGGAAGGGCAGGACGAGGTGTCGGCGCGGGAGCAGCACTTCCACAGCCAAGTGCGGGAG
TCCACGATATGTTTCCTTCTTTTGCCATTCTCTACGTTGTTTCTACTTCATCATCACA
AGATAAAGAGAAAAATCAGATGAACAAGAAGATGAAGATGCCATCGTCAACAGGATTTCG
TTGTTTTTGAGCACGTTCACTCTCGCAGTGTGAGCTGGGGCTGTTTTGCTTTTACCCTTC
TCAATCATCAGCAATGAAATCCTGCTTTCTTTTCTCAGAACTACTATATTCAGTGGCTA
AATGGCTCCCTGATTTCATGGTTTGTGGAATCTTGCTTCCCTTTTTTCCAACCTTTGTTTA
TTTGATTGATGCCCTTTGCTTTTTCTTCTGGAATCAGAAGGCTTTGCTGGCTGAA
AAGGGAATCCGAGCCCGCATTTTAGAGACTTTGGTCATGCTTCTTCTTCTGCGTTACTC
ATTCTTGGGATAGTGTGGGTAGCTTCAGCACTCATTGACAACGATGCCGCAAGCATGGAA
TCTTTATATGATCTCTGGGAGTTCTATCTACCCTATTTATATTCTGTATATCATTGATG
GGATGTTTGTACTTCTTGTGTACACCAGTTGGCTTTCTCGTATGTTACAGTGATG
GGTCAGTTGCTAGTGAAGCCAACAATTCTGAAGACCTGGATGAACAAATTTATATCATT
ACCTTAGAGGAAGAAGCACTCCAGAGACGACTAAATGGGCTGTCTTCATCGGTGGAATAC
AACATAATGGAGTTGGAACAAGAACTTGAAAATGTAAAGACTCTTAAGACAAAATTAGAG
AGGCGAAAAAAGGCTTCAGCATGGGAAAGAAATTTGGTGTATCCCGCTGTTATGGTTCTC
CTTCTTATTGAGACATCCATCTCGGTCCTCTTGGTGGCTTGAATATTCTTTGCCTATTG
GTTGATGAAACAGCAATGCCAAAAGGAACAAGGGGGCTGGAATAGGAAATGCCTCTCTT
TCTACGTTTGGTTTTGTGGGAGCTGCGCTTGAAATCATTTTGATTTTCTATCTTATGGTG
TCCTCTGTTGTCGGCTTCTATAGCCTTCGATTTTTTGGAACTTTACTCCCAAGAAAGAT
GACACAACATGACAAAGATCATTGGAAATTGTGTGTCCATCTTGGTTTTGAGCTCTGCT
CTGCCTGTGATGTCGAGAACACTGGGAATCACTAGATTTGATCTACTTGGCGACTTTGGA
AGGTTTAATTGGCTGGGAAATTTCTATATTGTATTATCCTACAATTTGCTTTTTGCTATT
GTGACAACATTGTGTCTGGTCCGAAAATTCACCTCTGCAGTTCGAGAAGAACTTTTCAAG
GCCCTAGGGCTTCATAAACTTCACTTACCAATACTTCAAGGATTTCAGAAACAGCCAAG
CCTTCTGTAAATGGGCATCAGAAAGCACTGTGA
```

Clone variation with respect to NM\_022458.3

**5' Read Nucleotide Sequence:**

```
>OriGene 5' read for NM_022458 unedited
GTTTTGTAATACGACTCACTATAGGGCGACGCGCNGATTCGGCACGAGGGTCGTGGTCGC
GGTACCTGTTCCAACACGGCTCGCGGGCCCGTGCCGGCTCCGGTCCCCGGCGCGGCTGTC
CGAGCCCTGCGGCGGGCGGACGATGGTGTGGCGGAGCACGCGGACGCGGGCGGCGCGGC
GGCGGGCATGAAGGAGGATGGAAGGGCAGGACGAGGTGTCGGCGCGGGAGCAGCACTTCC
ACAGCCAAGTGCGGGAGTCCACGATATGTTTCTTCTTTTGCCATTCTCTACGTTGTTT
CCTACTTCATCATCACAAGATACAAGAGAAAATCAGATGAACAAGAAGATGAAGATGCCA
TCGTCAACAGGATTTGTTGTTTTGAGCACGTTCACTCTCGCAGTGTGAGCTGGGGCTG
TTTTGCTTTTACCCTTCTCAATCATCAGCAATGAAATCCTGCTTTCTTTTCTCAGAACT
ACTATATTCAGTGGCTAAATGGCTCCCTGATTGATGTTTGTGGAATCTTGCTTCCCTTT
TTTCCAACCTTTGTTTATTGATTGATGCCCTTTGCCTTTTTCTTCTGGAATCAGAAG
GCTTTGCTGGCTGAAAAAGGGAATCCGAGCCCCGCATTTTACAGACTTTGGTCATGCTT
CTTCTTCTGCGTTACTCATTCTTGGGATAGTGTGGGTAGCTTCAGCCCTCATTGACAAC
GATGCCGACGGCATGGAATCTTTATTGGATCTCCGGGGAGTTTTATCCTACCCTATTTAT
ATTCTGTAAATCATTGAGGGGCACGTTTGTCTCTCCCTTGGGCCACCANTTGGCCTTT
CTCTGATGTTACAGTGAAGGGTCCCGTCCCTTATGC
```

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|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>3' Read Nucleotide Sequence:</b> | <p>&gt;OriGene 3' read for NM_022458 unedited</p> <pre> GTTGACATTTGCGATGGCACTTCCAGTCCAGGANAGCACTGGGGCAGGGGTACACAGGGC ATGCCACCCGGGTATCTGTTTCAGGAAAACAGCTATGACCGCGGCCGAATCTAGAGTCGA GTTTTTTTTTTTTTTTTTAAATTATTTACAATTTAATAACTGAATGATTATCAGATCGTG TTATACTGCAAACTGTTCTTACACCATGAATGCTGATGCTGTGAACCTTGGATGTTAAA CTGGTAAAAGCTGGAGGCTTCAAATGGCATATGCAAATGTAACCAAAGCCTGAGGACTAT GAAGAAAGAGGAGTTTCTACCACTCGGCATTTATAGTTTTTATATGCATTGCAGAAGCAT GGGGAATTAAGTGATCTCTGAAAAAAATGCTTTAAAAAACTGAGTATACATATAGCCTAT AAGGTA AAAATCCAAGTTACAAGTGATTAAACACTGGCAACTATGTTATCAGAGGGAAT ACTGAATTATATATACATAAACTGTCATTAACCTGTGATTACATGATACTTCTACCA CAGCTTATTAGACTGTACAACAGAAGATATTCCTGTGGCTCTCTAAGGCTCCAGGTTTAA AAGAATTTAGTATTTTCCCTTGGCTCANAGTCTAATCAGTATCATTCTATAACATAAAT CAGACACTACGCTTTTTGCTTTTAAGGAAATAAGAAACATAATTGCAACCATTACAGCTC CAACATACACTGCAAAAATGATATCTACNAGCAGTTGCCATTGCATTTGAAAAATGCATT TTCTGAAATAGCTTCACTTAGTACCAAGGATGCCTTTCAAGTCAGCTTCTACATTCTGAA ATAAGTACANTATGGGATTTAAGTAAATCTTTAGAGTCCCGNATTTTGCCTTTCTAACA ATTCAT </pre> |
| <b>Restriction Sites:</b>           | NotI-NotI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ACCN:</b>                        | NM_022458                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Insert Size:</b>                 | 3000 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>                      | <u><a href="#">NM_022458.2</a></u> , <u><a href="#">NP_071903.2</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RefSeq Size:</b>                 | 2781 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>RefSeq ORF:</b>                  | 1473 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Locus ID:</b>                    | 64327                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID:</b>                  | <u><a href="#">Q8WVP7</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Cytogenetics:</b>                | 7q36.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Domains:</b>                     | LMBR1, YdjC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Protein Families:</b>            | Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

**Gene Summary:**

This gene encodes a member of the LMBR1-like membrane protein family. Another member of this protein family has been shown to be a lipocalin transmembrane receptor. A highly conserved, cis-acting regulatory module for the sonic hedgehog gene is located within an intron of this gene. Consequently, disruption of this genic region can alter sonic hedgehog expression and affect limb patterning, but it is not known if this gene functions directly in limb development. Mutations and chromosomal deletions and rearrangements in this genic region are associated with acheiropody and preaxial polydactyly, which likely result from altered sonic hedgehog expression. [provided by RefSeq, Jul 2008]