

Product datasheet for **SC112534**

LEPRE1 (P3H1) (NM_022356) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LEPRE1 (P3H1) (NM_022356) Human Untagged Clone
Tag:	Tag Free
Symbol:	LEPRE1
Synonyms:	GROS1; LEPRE1; OI8
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_022356 edited
ATGGCGGTACGCGGTTGAAGCTGCTGACCACACTGCTGGCTGTCGTGGCCGCTGCCTCC
CAAGCCGAGGTCGAGTCCGAGGCAGGATGGGGCATGGTGACGCCTGATCTGCTCTTCGCC
GAGGGGACCGCAGCCTACGCGCGCGGGGACTGGCCCGGGTGGTCTGAGCATGGAACGG
GCGCTGCGCTCCCGGCAGCCCTCCGCGCCCTTCGCTGCGCTGCCGCACCCAGTGTGCC
GCCGACTTCCCGTGGGAGCTGGACCCGACTGGTCCCCAGCCCGGCCAGGCCCTCGGGC
GCCCGCCCTGCGCGACCTGAGCTTCTTCGGGGCCTTCTGCGTCGCGCTGCCTGCCTG
CGCCGCTGCCTCGGGCCCGCGGCCCACTCGCTCAGCGAAGAGATGGAGCTGGAGTTC
CGCAAGCGGAGCCCTACAACACTCTGCAGGTCGCCTACTTCAAGATCAACAAGTTGGAG
AAAGCTGTTGCTGCAGCACACACCTTCTCGTGGGCAATCCTGAGCACATGGAATGCAG
CAGAACCTAGACTATTACCAAACCATGTCTGGAGTGAAGGAGGCCGACTTCAAGGATCTT
GAGACTCAACCCCATATGCAAGAATTCGACTGGGAGTGCGACTCTACTCAGAGGAACAG
CCACAGGAAGCTGTGCCCACTAGAGGCGCGCTGCAAGAATACTTTGTGCCTATGAG
GAGTGCCGTGCCCTCTGCGAAGGGCCCTATGACTACGATGGCTACAACACTCCTTGAGTAC
AACGCTGACCTCTCCAGGCCATCACAGATCATTACATCCAGGTCCTCAACTGTAAGCAG
AACTGTGTACGGAGCTTCTCCACCCAAGTCGAGAGAAGCCCTTTGAAGACTTCCTC
CCATCGCATTATAAATTATCTGCAGTTTGCCTACTATAACATTGGGAATTATACACAGGCT
GTTGAATGTGCCAAGACCTATCTTCTTCTTCCCAATGACGAGGTGATGAACCAAAAT
TTGGCCTATTATGCAGCTATGCTTGGAGAAGAACACACCAGATCCATCGGCCCCCGTGAG
AGTGCCAAAGGAGTACCGACAGCGAAGCCTACTGGAAAAAGAACTGCTTTTCTTCGCTTAT
GATGTTTTTGGAAATCCCTTTGTGGATCCGGATTCATGGACTCCAGAAGAAGTATTCCC
AAGAGATTGCAAGAGAAACAGAAGTCAAGAACGGAAACAGCCGTACGCATCTCCAGGAG
ATTGGGAACCTTATGAAGGAAATCGAGACCCCTTGTGGAAGAGAAGACCAAGGAGTCACTG
GATGTGAGCAGACTGACCCGGGAAGGTGGCCCCCTGCTGTATGAAGGCATCAGTCTCACC
ATGAACCTCAAACCTCCTGAATGGTTCCAGCGGGTGGTGTGACGCGGTAATCTCTGAC
CACGAGTGTACGAGCTGCAGAGACTGACCAATGTGGCAGCAACCTCAGGAGATGGCTAC
CGGGGTCAGACCTCCCCACATACTCCCAATGAAAAGTTCTATGGTGTCACTGTCTTCAA
GCCCTCAAGCTGGGGCAAGAAGGCAAAGTTCTCTGCAGAGTGCCACCTGTAACAAC
GTGACGGAGAAGGTGCGGCGCATCATAGAGTCTACTTCCGCCTGGATACGCCCCCTAC
TTTTCTACTCTCATCTGGTGTGCCGACTGCCATCGAAGAGGTCCAGGCAGAGAGGAAG
GATGATAGTCATCCAGTCCACGTGGACAACCTGCATCCTGAATGCCGAGACCTCGTGTGT
GTCAAAGAGCCCCAGCCTACACCTTCCGCGACTACAGGCCATCCTTTACCTAAATGGG
GACTTCGATGGCGAAACTTTTATTTCACTGAACTGGATGCCAAGACCGTGACGGCAGAG
GTGCAGCCTCAGTGTGGAAGAGCCGTGGGATTCTTTCAGGCACTGAAAACCCACATGGA
GTGAAGGCTGTACACAGGGGGCAGCGCTGTGCCATCGCCCTGTGGTTCACCCTGGACCCT
CGACACAGCGAGCGGGACAGGGTGCAGGCAGATGACCTGGTGAAGATGCTCTTACGCCCA
GAAGAGATGGACCTCTCCAGGAGCAGCCCTGGATGCCAGCAGGGCCCCCCCCAACCT
GCACAAGAGTCTCTCAGGCAGTGAATCGAAGCCCAAGGATGAGCTATGA
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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_022356.2](#), [NP_071751.2](#)

RefSeq Size: 2993 bp

RefSeq ORF: 2415 bp

Locus ID: 64175

UniProt ID: [Q32P28](#)

Cytogenetics: 1p34.2

Domains: 2OG-Fell_Oxy, P4Hc

Protein Families: Secreted Protein

Gene Summary: This gene encodes an enzyme that is a member of the collagen prolyl hydroxylase family. These enzymes are localized to the endoplasmic reticulum and their activity is required for proper collagen synthesis and assembly. Mutations in this gene are associated with osteogenesis imperfecta type VIII. Three alternatively spliced transcript variants encoding different isoforms have been described. Other variants may exist, but their biological validity has not been determined. [provided by RefSeq, Aug 2011]
Transcript Variant: This variant (1) differs in the 3' UTR and coding sequence compared to variant 3. The resulting isoform (1) has a shorter and distinct C-terminus compared to isoform 3.