

Product datasheet for **SC327635**

LEPRE1 (P3H1) (NM_001146289) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LEPRE1 (P3H1) (NM_001146289) 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: >NCBI ORF sequence for NM_001146289, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGTACGCGGTTGAAGCTGCTGACCACACTGCTGGCTGTCGTGGCCGCTGCCTCC
CAAGCCGAGGTCGAGTCCGAGGCAGGATGGGGCATGGTGACGCCTGATCTGCTCTTCGCC
GAGGGGACCGCAGCCTACGCGCGCGGGGACTGGCCCGGGTGGTCTGAGCATGGAACGG
GCGCTGCGCTCCCGGGCAGCCCTCCGCGCCCTTCGCTGCGCTGCCGCACCCAGTGTGCC
GCCGACTTCCCCTGGGAGCTGGACCCCGACTGGTCCCCAGCCCGCCAGGCCTCGGGC
GCCGCGCCCTGCGCGACCTGAGCTTCTTCGGGGCCCTTCTGCGTCGCGCTGCCTGCCTG
CGCCGCTGCCTCGGGCCCGGGCCGCCACTCGCTCAGCGAAGAGATGGAGCTGGAGTTC
CGCAAGCGGAGCCCTACAACACTCTGCAGGTCGCCTACTTCAAGATCAACAAGTTGGAG
AAAGCTGTTGCTGCAGCACACACCTTCTCGTGGGCAATCCTGAGCACATGGAATGCAG
CAGAACCTAGACTATTACCAAACCATGTCTGGAGTGAAGGAGGCCGACTTCAAGGATCTT
GAGACTCAACCCATATGCAAGAATTCGACTGGGAGTGCGACTTACTCAGAGGAACAG
CCACAGGAAGCTGTGCCACCTAGAGGGCGCTGCAAGAATACTTTGTGCCTATGAG
GAGTGCCGTGCCCTCTGCGAAGGGCCCTATGACTACGATGGCTACAACACTCTTGTAGTAC
AACGCTGACCTTCCAGGCCATCACAGATCATTACATCCAGGTCCTCAACTGTAAGCAG
AACTGTGTACGGAGCTTGTTCACCCAAAGTCGAGAGAAGCCCTTTGAAGACTTCCTC
CCATCGCATTATAATTATCTGCAGTTTGCCTACTATAACATTGGGAATTATACACAGGCT
GTTGAATGTGCCAAGACCTATCTTCTTCTTCCCAATGACGAGGTGATGAACCAAAAT
TTGGCCTATTATGCAGCTATGCTTGGAGAAGAACACACCAGATCCATCGGCCCGGTGAG
AGTGCCAAAGGAGTACCGACAGCGAAGCCTACTGGAAAAAGAACTGCTTTTCTTCGCTTAT
GATGTTTTTGGAAATCCCTTTGTGGATCCGGATTCATGGACTCCAGAAGAAGTATTCCC
AAGAGATTGCAAGAGAAACAGAAGTCAGAACGGGAAACAGCCGTACGCATCTCCAGGAG
ATTGGGAACCTTATGAAGGAAATCGAGACCCTTGTGGAAGAGAAGACCAAGGAGTCACTG
GATGTGAGCAGACTGACCCGGAAGGTGGCCCTGCTGTATGAAGGCATCAGTCTCACC
ATGAACCTCAAACCTCTGAATGGTTCCAGCGGGTGGTATGGACGGCGTAATCTCTGAC
CACGAGTGTGAGGAGCTGCAGAGACTGACCAATGTGGCAGCAACCTCAGGAGATGGCTAC
CGGGGTGACACCTCCCACTACTCCCAATGAAAAGTTCTATGGTGTCACTGTCTTCAA
GCCCTCAAGCTGGGGCAAGAAGGCAAAGTTCCTCTGCAGAGTGCCACCTGTACTACAAC
GTGACGGAGAAGGTGCGGCGCATCATGGAGTCTACTTCCGCTGGATACGCCCTCTAC
TTTTCTACTCTCATCTGGTGTGCGCACTGCCATCGAAGAGGTCCAGGCAGAGAGGAAG
GATGATAGTCATCCAGTCCACGTGGACAACCTGCATCCTGAATGCCGAGACCCTCGTGTGT
GTCAAAGAGCCCCAGCCTACACCTTCCGCGACTACAGCGCCATCCTTTACCTAAATGGG
GACTTCGATGGCGGAACTTTTATTTCACTGAACTGGATGCCAAGACCCTGACGGCAGAG
GTGCAGCCTCAGTGTGGAAGAGCCGTGGGATTCTTTCAGGCACTGAAAACCCACATGGA
GTGAAGGCTGTACACAGGGGGCAGCGCTGTGCCATCGCCCTGTGGTTACCCTGGACCCT
CGACACAGCGAGCGGGTGTGAGAGCAGCTCGAGCGGGACAGGGTGCAGGCAGA

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Restriction Sites: Please inquire

ACCN: NM_001146289

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001146289.1, NP_001139761.1</u>
RefSeq Size:	2715 bp
RefSeq ORF:	2094 bp
Locus ID:	64175
UniProt ID:	<u>Q32P28</u>
Cytogenetics:	1p34.2
Protein Families:	Secreted Protein
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 3' UTR and coding sequence compared to variant 3. The resulting isoform (2) has a shorter and distinct C-terminus compared to isoform 3, and isoform 2 is a likely cause of a recessive form of osteogenesis imperfecta (OI).</p>