

Product datasheet for **RC234906**

LEPRE1 (P3H1) (NM_001243246) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LEPRE1 (P3H1) (NM_001243246) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LEPRE1
Synonyms:	GROS1; LEPRE1; OI8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234906 representing NM_001243246
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGTACGCGGTTGAAGCTGCTGACCACACTGCTGGCTGTGCTGGCCGCTGCCTCCCAAGCCGAGG
 TCGAGTCCGAGGCAGGATGGGGCATGGTACGCCTGATCTGCTCTTCGCCGAGGGGACCGCAGCCTACGC
 GCGCGGGGACTGGCCCGGGTGGTCTGAGCATGGAACGGGCGCTGCGCTCCCGGCAGCCCTCCGCGCC
 CTTGCGCTGCGCTGCCGCACCCAGTGTGCCCGGACTTCCCGTGGGAGCTGGACCCGACTGGTCCCCCA
 GCCCGGCCAGGCCTCGGGCGCCGCCCTGCGGACCTGAGCTTCTTCGGGGGCTTCTGCGTCGCGC
 TGCCTGCCTGCGCGCTGCCTCGGGCCGCCGCCCACTCGCTCAGCGAAGAGATGGAGCTGGAGTTC
 CGCAAGCGGAGCCCTACAACACTGCAGGTGCCTACTTCAAGATCAACAAGTTGGAGAAAGCTGTTG
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 AACCATGTCTGGAGTGAAGGAGCGGACTTCAAGGATCTTGAGACTCAACCCCATATGCAAGAATTCGA
 CTGGGAGTGCAGCTCTACTCAGAGGAACAGCCACAGGAAGCTGTGCCCCACTAGAGGCGGCGCTGCAAG
 AATACTTTGTGGCCTATGAGGAGTGCCGTGCCCTCTGCGAAGGGCCCTATGACTACGATGGCTACAAC
 CTTGAGTACAACGCTGACCTCTTCCAGGCCATCACAGATCATTACATCCAGGTCCTCAACTGTAAGCAG
 AACTGTGTACGGAGCTTGCTTCCACCCAAGTCGAGAGAAGCCCTTTGAAGACTTCTCCCATCGCATT
 ATAATTATCTGCAGTTTGCTACTATAACATTGGGAATTATACACAGGCTGTTGAATGTGCCAAGACCTA
 TCTTCTCTTCCCAATGACGAGGTGATGAACAAAATTTGGCCTATTATGCAGCTATGCTTGGAGAA
 GAACACACCAGATCCATCGCCCCGCTGAGAGTGCCAAGGAGTACCGACAGCGAAGCCTACTGAAAAAG
 AACTGCTTTTCTCGCTTATGATGTTTTTGAATTCCCTTTGTGGATCCGGATTTCAGACTCCAGAAGA
 AGTGATCCCAAGAGATTGCAAGAGAAAACAGAAGTCAGAACGGGAAACAGCCGTACGCATCTCCAGGAG
 ATTGGAAACCTTATGAAGAAATCGAGACCTTGTGGAAGAGAAGACCAAGGAGTCACTGGATGTGAGCA
 GACTGACCCGGGAAGGTGGCCCCCTGCTGTATGAAGGCATCAGTCTACCATGAACTCCAACTCCTGAA
 TGGTTCACGCGGGTGGTATGGACGGCGTAATCTCTGACCACGAGTGTGAGGAGCTGCAGAGACTGACC
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 ATGGTGTCACTGTCTTCAAAGCCCTCAAGCTGGGGCAAGAAGGCAAAGTCTCTGCAGAGTGCCCACT
 GTACTACAACGTGACGGAGAAGGTGCGGCGCATGAGTCTACTTCCGCCTGGATACGCCCCCTAC
 TTTTCTACTCTCATCTGGTGTGCCGACTGCCATCGAAGAGTCCAGGCAGAGGAAGGATGATAGTC
 ATCCAGTCCACGTGGACAACCTGCATCCTGAATGCCGAGACCCTCGTGTGTGTCAAAGAGCCCCAGCCTA
 CACCTTCCGCGACTACAGCGCCATCCTTACCTAAATGGGGACTTCGATGGCGGAAACTTTTATTTCACT
 GAACTGGATGCCAAGACCGTGACGGCAGAGGTGCAGCCTCAGTGTGGAAGAGCCGTGGGATTCTCTTCAG
 GCACTGAAAACCCACATGGAGTGAAGGCTGTACCAGGGGGCAGCGCTGTGCCATCGCCCTGTGGTTAC
 CCTGGACCCTCGACACAGCGAGCGGGTGAAGCAGCTCGAGCGGGTGAAGCAGCTGGTGTGTGGTGC
 CCGTTCACAGAGCGCCCTGGTTTGCCTTTCTCTTCCCAAATCCATTGCCAGTGGCTGAGACACGAAA
 GGAGCACTTGGGACACCAGCTCCAACGCCCTGTATTATGGTACATTGCCTTGTCTCCCTGGGCTGC
 TGTGAACGGGATCCAGGTGGGAAAGAGGTCAAGACAGGGAGCGATGCTGAGTCTTGGTTCCCTCCTTG
 GGCCCCACTTCAGCTGTCTTTTCCAGAGAGTAGGACCTGCTGGGAAGGAGATGAGCCTGGGGCCATTAA
 GGAACCTTCTTGTCCCCTGGGAAGTAGCAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC234906 representing NM_001243246
Red=Cloning site Green=Tags(s)

MAVRALKLLTLLAVVAAASQAEVESEAGWGMVTPDLLFAEGTAAYARGDWPGVVL SMERALRSRAALRA
LRLRCRTQCAADFPWELDPDWSPSPAQASGAAALRDL SFFGLLRRAACLRRCLGPPAAHSLSEEMLEF
RKRSPYNYLQVAYFKINKLEKAVAAAHTFFVGNPEHMEMQQNL DYYQTM SGVKEADFKDLETQPHMQEFR
LGVRLYSEEQQEAVPHLEAALQEYFVAYEECRALCEGPYDYDGYNYLEYNADLFQAITDHYIQVLNCKQ
NCVTELA SHPSREKPFEDFLPSHYNYLQFAYYNI GNYTQAVECAKTYLLFFPNDEV MNQNLAYYAAMLGE
EHTRSIGPRESAKEYRQRSLLEKELLFFAYDVFGIPFVDPDSWTP EEVIPKRLQEKQKSERETAVRISQE
IGNLMKEIETLVEEKTKE SLDVSRLTREGGPLLYEGISL TMNSKLLNGSQRVVMDGVISDHECQELQRLT
NVAATSGDGYRGQTS PHTPNEKFYGVTVFKALKLGQEGKVPLQSAHL YYNVTEKVR RIMESYFRLDTPLY
FSYSHLVCRTAIEEVQAERKDDSHPVHVDNCILNAETLVCVKEPPAYTFRDYSAILYLN GDFDGGNFYFT
ELDAKTVTAEVQPQCGRVGFSSGTENPHGVKAVTRGQRCAIALWFTL DPRHSERVRAARAGES SWCCGD
PFPERPWF AFLFPKSHCQWLRHERSTWDTSSNALSLWSHCLVLP GPAVNGIQVGKEVKTGSDAEFLVPSL
GPTSAVL FQRVGPAGKEMSLGPLRNLPCPLGSSS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001243246

ORF Size: 2412 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:

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_001243246.2](#)

RefSeq Size: 3115 bp

RefSeq ORF: 2415 bp

Locus ID: 64175

UniProt ID: [Q32P28](#)

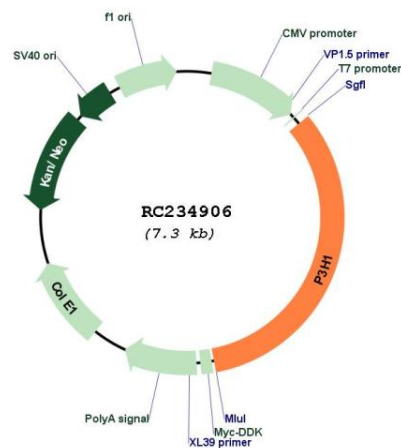
Cytogenetics: 1p34.2

Protein Families: Secreted Protein

MW: 91.1 kDa

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]

Product images:



Circular map for RC234906