

Product datasheet for **RG229000**

LEPRE1 (P3H1) (NM_001146289) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LEPRE1 (P3H1) (NM_001146289) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LEPRE1
Synonyms:	GROS1; LEPRE1; OI8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG229000 representing NM_001146289
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCGGTACGCGGTTGAAGCTGCTGACCACACTGCTGGCTGTGCTGGCCGCTGCCTCCCAAGCCGAGG
 TCGAGTCCGAGGCAGGATGGGGCATGGTACGCCTGATCTGCTCTTCGCCGAGGGGACCGCAGCCTACGC
 GCGCGGGGACTGGCCCGGGTGGTCTGAGCATGGAACGGGCGCTGCGCTCCCGGGCAGCCCTCCGCGCC
 CTTGCGCTGCGCTGCCGCACCCAGTGTGCCGCCGACTTCCCGTGGGAGCTGGACCCGACTGGTCCCCCA
 GCCCGGCCAGGCCTCGGGCGCCGCCCTGCGCGACCTGAGCTTCTTCGGGGGCTTCTGCGTCGCGC
 TGCCTGCCTGCGCCGCTGCCTCGGGCCGCCGCCCTGCGTCAAGGAGATGGAGCTGGAGTTC
 CGAAGCGGAGCCCTACAACACTGCAGGTGCGCTACTTCAAGATCAACAAGTTGGAGAAAGCTGTTG
 CTGCGACACACACCTTCTCGTGGCAATCCTGAGCACATGGAATGCAGCAGAACCTAGACTATTACCA
 AACCATGTCTGGAGTGAAGGAGCGGACTTCAAGGATCTTGAGACTCAACCCCATATGCAAGAATTCGA
 CTGGGAGTGCAGCTCTACTCAGAGGAACAGCCACAGGAAGCTGTGCCCCACTAGAGGCGGCGCTGCAAG
 AATACTTTGTGGCCTATGAGGAGTGCCGTGCCCTCTGCGAAGGGCCCTATGACTACGATGGCTACAAC
 CTTGAGTACAACGCTGACCTCTTCCAGGCCATCACAGATCATTACATCCAGGTCCTCAACTGTAAGCAG
 AACTGTGTACGGAGCTTGCTTCCACCCCAAGTCGAGAGAAGCCCTTTGAAGACTTCTCCCATCGCATT
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 ATGGTGTCACTGTCTTCAAAGCCCTCAAGCTGGGGCAAGAAGGCAAAGTTCTCTGCAGAGTGCCCACT
 GTACTACAACGTGACGGAGAAGGTGCGGCGCATGAGTCTACTTCCGCTGGATACGCCCCCTAC
 TTTTCTACTCTCATCTGGTGTGCCGACTGCCATCGAAGAGGTCCAGGCAGAGGAAGGATGATAGTC
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 CACCTTCCGCGACTACAGCGCCATCCTTACCTAAATGGGGACTTCGATGGCGGAAACTTTTATTTCACT
 GAACTGGATGCCAAGACCGTACGGCAGAGGTGCAGCCTCAGTGTGGAAGAGCCGTGGGATTCTCTTCAG
 GCACTGAAAACCCACATGGAGTGAAGGCTGTACCAGGGGCGAGCGCTGTGCCATCGCCCTGTGGTTTAC
 CCTGGACCCTCGACACAGCGAGCGGGTGAAGCAGCTCGAGCGGGACAGGGTGCAGGCAGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG229000 representing NM_001146289
 Red=Cloning site Green=Tags(s)

MAVRALKLLTLLAVVAAASQAEVESEAGWGMVTPDLLFAEGTAAYARGDWPGVLSMERALRSRAALRALRLRCRTQCAADFPWELDPDWPSPAQASGAAALRDLFFGGLLRRAACLRRCLGPPAAHSLSEEMLEFRKRSPYNYLQVAYFKINKLEKAVAAAHTFFVGNPEHMEMQQNLDYYQTMISGVKEADFKDLETQPHMQEFR LGVRLYSEEQPQEAAPHLEAALQEYFVAYEECRALCEGPDYDGYNYLEYNADLFQAITDHYIQVLNCKQNCVTELA SHPSREKPFEDFLPSHYNYLQFAYYNIGNYTQAVECAKTYLLFFPNDEVMNQNLAYYAAMLGEHTRSIGPRESAKEYRQRSLLEKELFFAYDVFGIPFVDPDSWTPPEEVIPKRLQEKKSERETAVRISQEIGNLMKEIETLVEEKTKEISLDSVRLTREGGPLLYEGISLTMNSKLLNGSQRVVMDGVIDSHECQELQRLTNVAATSGDGYRGQTSPTPNKIFYGVTVFKALKLQEGKVPLQSAHLYYNTKVRIRIMESYFRDLTPLYFSYSHLVCRTAIEEVQAERKDDSHPVHVDNCILNAETLVCVKEPPAYTFRDYSAILYLNGDFDGGNFYFTELDAKVTAEVQPQCRAVGFSSGTENPHGVKAVTRGQRCAIALWFTLDRHSERVRAARAGQGAGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001146289

ORF Size: 2091 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_001146289.2](#)

RefSeq Size: 2715 bp

RefSeq ORF: 2094 bp

Locus ID: 64175

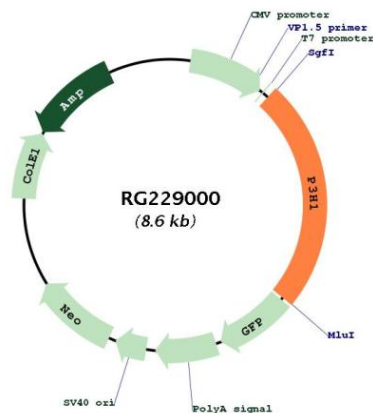
UniProt ID: [Q32P28](#)

Cytogenetics: 1p34.2

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]

Product images:



Circular map for RG229000