

Product datasheet for **SC327144**

Lactoperoxidase (LPO) (NM_001160102) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Lactoperoxidase (LPO) (NM_001160102) Human Untagged Clone
Tag:	Tag Free
Symbol:	LPO
Synonyms:	SPO
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_001160102, the custom clone sequence may differ by one or more nucleotides

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ATGAGGGTCTTCTCCATCTCCCAGCCCTCTGGCTTCCCTCATCTTGCTTCAGGCTGCA
GCATCTACCACAAGAGATCCCAGCTGGACTTGACTTCACTGTCTCTGGAGGTGGGCTGT
GGTGCTCTGCTCCCGTGGTGAGATGCGACCCGTGCAGCCCTTACCGACCATTACGGGA
GACTGCAATAACAGGAGGAAGCCTGCGCTGGGCGCCGCAACAGGGCTCTGGCGCGTGG
CTGCCCCGCGGAGTACGAGGACGGGCTCTCCCTGCCCTTCGGCTGGACGCCGGGAAGACG
CGCAACGGCTTCCCTCTCCCGCTGGCCCGGAGGTATCTAACAAGATTGTTGGCTATCTG
AATGAGGAGGGTGTCTGGACAAAACAGGTCCCTGCTTTCATGCAGTGGGGTCAGATT
GTGGATCATGACCTGGACTTTGCCCTGACACCGAGCTGGGGAGTAGCGAGTACTCCAAA
GCCAGTGTGATGAGTACTGTATCCAGGGAGACAAGTCTTCCCATCATGTTCCCACCC
AATGACCCCAAGGCGGGGACTCAAGGAAATGCATGCCTTTCTCCGAGCTGGGTTCTGTC
TGCCCCACTCCACCCTACAAGTCCCTGGCCGAGAGCAGATCAACGCTCTGACCTCCTTC
CTGGATGCCAGCTTTGTGTACAGCTCCGAGCCAAGCCTGGCCAGCCGCTCCGCAACCTC
AGCAGCCCCCTGGCCTCATGGCTGTCAACCAGGAGGTCTCAGACCATGGACTACCTAC
CTGCCCTATGACAGCAAGAAGCCAAGCCCTGTGAGTTTCAACACCCTGCCCCGTGTG
CCCTGCTTCTGGCAGGAGATTCTCGAGCCTCAGAGCATATTCTGCTGGCCACATCCCAC
ACCCTCTTTCTCCGCGAGCATAACCGGCTGGCCAGAGAACTAAAGAGACTCAACCCTCAG
TGGGATGGAGAGAAGCTCTACCAGGAAGCCCGAAAATCCTGGGAGCCTTCGTGCAGATT
ATCACCTTTAGGGACTACCTACCCATTTTGCTAGGTGACCACATGCAGAAGTGGATACCC
CCATATCAAGGCTACAGTGAATCTGTGGATCCCAGAATTTCCAATGTCTTACCTTCGCC
TTCCGCTTTGGCCACTTGGAGGTCCCCTCTAGTATGTTCCGCTGGATGAGAATTATCAG
CCATGGGGGCCAGAACCAGAACTCCCCCTCCACACCCTTCTTCAACACTTGGAGGATG
GTCAAAGATGGTGAATTGATCCTCTGGTGCGGGGCTGCTGGCCAAGAAATCCAAGCTG
ATGAAACAGAATAAAATGATGACTGGAGAGCTGCGCAACAAGCTTTTCCAGCCAACCTCAC
AGGATCCATGGCTTTGACCTGGCTGCCATCAACACACAGCGTTGCCGGGACCATGGGCAA
CCTGGGTACAATTCTGGAGAGCCTTCTGTGACCTCTCACAGCCGACAGACTAGAGGAG
TTGAACACAGTGTGAAGAGCAAGATGCTGGCCAAGAAGTTACTGGGTCTCTACGGGACC
CCTGACAACATCGACATCTGGATAGGGGCCATTGCTGAGCCGCTGGTGGAAAGGGTCTGG
GTGGGGCCTCTCCTGGCCTGCCTCTTGGCAAGCAGTTCCAGCAGATCCGTGATGGAGAC
AGGTTCTGGTGGGAAAACCTGGGGTCTTACGAACGAGCAGAAGGACTCTCTACAGAAA
ATGTCCTTCTCACGCCTTGTCTGTGACAACCCGCATACCAAGGTCCCACGGGACCCA
TTCTGGGCCAACAGCTACCCCTATGACTTCGTGGATTGCTCAGCCATCGACAAGCTGGAC
CTGTCACCCTGGGCTCAGTGAAGAAT

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Restriction Sites: Please inquire

ACCN: NM_001160102

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:

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_001160102.1](#), [NP_001153574.1](#)

RefSeq Size: 2744 bp

RefSeq ORF: 1890 bp

Locus ID: 4025

UniProt ID: [P22079](#)

Cytogenetics: 17q22

Protein Families: Druggable Genome, Secreted Protein

Gene Summary: This gene encodes a member of the peroxidase family of proteins. The encoded preproprotein is proteolytically processed to generate the mature enzyme. Following its secretion from salivary, mammary, and other mucosal glands, this enzyme catalyzes the generation of the antimicrobial substance hypothiocyanous acid. This gene is present in a gene cluster on chromosome 17. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed. [provided by RefSeq, Jan 2016]

Transcript Variant: This variant (3) lacks two alternate exons in the 5' coding region, compared to variant 1. The resulting isoform (3) lacks an internal segment near the N-terminus, compared to isoform 1. This isoform is thought to be secreted but the sites of proteolytic processing have not been determined.