

Product datasheet for **MC205696**

Loxl3 (NM_013586) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Loxl3 (NM_013586) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Loxl3
Synonyms:	Lor2; Loxl2
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF:

>BC011298
 GAAAGTAACTCTCCAGGACCAGGACTCTGCTTCCAGCCTCTGGAGTTGTGCCTAGTCGAAGTGCCCCCTC
 CTTGGGCCCCACCGCCATGAGAGCTGTGAGTGTGGTATTGCTGCCCATGGGGACTACTGCTGTCTACA
 CTGTCTGTGCAGCTTCAGTGTGGGGTCTCCGTCTCTTCTATCAGCCCAGAGAAGAAGGTAGGAAGCCAG
 GGGCTGAGGTTCCGGCTGGCTGGCTTTCTAGAAAAGCCCTATGAAGGTCGAGTGGAGATACAGCGAGCTG
 GTGAATGGGGCACCATCTGTGATGATGACTTACGCTGCAGGCTGCCCATGTCCTCTGCCGGGAGCTGGG
 CTTACAGAAGCCACAGGGTGGACTCATAGTGCCAAATATGGCCCTGGAACAGGCCGAATCTGGTTGGAC
 AATCTGAGCTGCAGGGGGACTGAAGGAAGTGTGACAGAATGCGCCTCTCGGGGCTGGGGAACAGTGACT
 GTACCCATGATGAGGATGCCGGGTCTCTGCAAGGACCAGCGCCTTCCCGTTTCTCAGACTCCAACGT
 CATTGAGGTGGAGCATCAGTTGCAAGTGGAGGAGTGCAGCTCCGACCTGCGGTGGAGTGGGGAAGGAGA
 CCCCTGCCTGTGACTGAGGGCTGGTTGAAGTCAGGCTTCTGAAGGCTGGTGCAGAGTGTGTGACAAAG
 GCTGGAGTGCCCAACAGCCACGTAGTCTGCGGTATGCTGGGCTTCCCTGGAGAAAAGAGAGTCAACAT
 GGCCTTCTACAGGATGCTGGCCAGAAGAAGCAACACTCCTTTGGTCTGCACAGTGTGGCATGTGTGGG
 ACAGAAGCCACCTCTCCCTTTGCTCTCTAGAGTTCTATCGTGCCATGACACCACAGGTGCTCTGGG
 GAAACCTGCAGTGGTGAAGTGTGTGCTGGGCCCTTTATGCCACCTTTACTGGTCAGAAGAAGCAGCA
 AACTCTAAGCCTCAAGGGGAGGCTCGTGTGCGTCTAAAGGGTGGTGCCACCAGGGAGAAGGCAGAGTG
 GAAGTCCTGAAGGCTGGCACATGGGGAACAGTCTGTGACCGAAAGTGGGACCTGCAGGCAGCCAGTGTGG
 TGTGTGAGAACTGGGCTTTGGCACTGCCGAGAGGCCCTGAGTGGTGGCCGATGGGGCAGGGCATGGG
 TGCCATCCACTTGAGTGAAGTTCGGTGTCTGGCCAGGAGCCCTCCCTTTGGAGATGCCCGTCCAAGAAC
 ATCAGAGTGAAGTGTTCACAGCCAGGATGCGGGTGTCCGGTGCAACCTCCCTACACTGGGGTGG
 AGACCAAGATCCGACTCAGTGGGGGCCGAGCCGGTATGAAGGGCGAGTCGAGGTGCAAAATAGGGATACC
 TGGGCATCTACGCTGGGGCTCATCTGTGGGATGACTGGGGAACCTGGAGGCCATGGTGGCCTGTAGG
 CAACTTGGTCTTGGCTACGCCAACACGGCCTGCAGGAGACCTGGTACTGGGACTCAGGGAATGTAAGT
 AGGTGGTGTGAGCGGAGTGCCTTGCACGGGGTCTGAGCTGTCCCTGAACCAAGTGTGCCCATCACAGCAG
 CCACATCACTGCAAGAAGACGGGAACCGCTTCACTGCGGGGGTCTCTGTTCTGAAACTGCTTCAGAT
 CTGCTGTGCACTCGGCACTGGTACAGGAACTGCTTATATTGAAGACCGGCCCTTGACATGTTGTACT
 GTGCTGTGAAGAGAACTGCCTGGCTAGCTCTGCCGCTCGGCCAACTGGCCTTATGGCCACCGGCTCT
 GCTCCGATTCTTCCCAGATCCACAACCTAGGAAGAGCTGACTTTAGGCCCAAGGCTGGGCGCCATTCC
 TGGGTGTGGCATGAGTGTGATGGGCATTACCACAGTATGGACATCTTCACTCATTATGATATCCTGACCC
 CCAATGGCACCAAGGTGGCTGAGGGCCACAAGCTAGTTTCTGTCTAGAAGACACTGAGTGTCAAGAGGA
 TGTCTCCAAGAGGTATGAGTGCGCCAACTTTGGAGAGCAGGGCATCACCGTGGGATGTTGGGATCTCTAC
 AGGCATGACATTGACTGTGAGTGGATCGACATCAGATGTGAAGCCAGGAACTACATTCTTCAGGTCTG
 TTATCAACCCAAATTTTGAAGTAGCAGAAAGTGAATTCACCAACAATGCAATGAAGTGAAGTGAAGTGA
 CGACGGGCATCGCATCTGGGTGCACAACTGCCACATCGGTGATGCCTTACGCGAAGAAGCCAACAGGAGG
 TTTGAGCGCTACCCTGGCCAGACTAGTAACAGATCGTCTAAATGCTACCACCTCTCTGTAAACCACC
 ACTGGCCCCCAATGGCAGGGTCTGAGGCTGCCATTACCTCAGGAGCTTACCACAAGAACCCTGATGTC
 AGCAGGCGCCCTACACTCAACCACTGTGCACTACAGGCAACAACTGTCAAACAGAAGTTGGTGCCTCC
 TTTACGGGGTCACTGTGATACCTTTGGCCAACAAGCATGGAGAATCAGCCAACAGCCCCAGCAACAGA
 CAGAACACACCACAAAGAACTGCCCCACACAGGATGGCAGCAGCTCATTCTTTGAATAGGGGAGGTCAA
 GAGGGTCAGTCCCATCGCTCTCCGTTCTCCTAAGGACCGGTTACCTCTAGCCATTTGGTGGGGAGAA
 GATCCAACCCCACTTTTGAAGTGAACATGTTGTAGGTATAATTTTATTTATATAAAATGTGTCTTC
 GGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites:

RsrII-NotI

ACCN:

NM_013586

Insert Size:

2265 bp

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).
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>BC011298</u> , <u>AAH11298</u>
RefSeq Size:	2837 bp
RefSeq ORF:	2265 bp
Locus ID:	16950
UniProt ID:	<u>Q9Z175</u>
Cytogenetics:	6 35.94 cM
Gene Summary:	Protein-lysine 6-oxidase that mediates the oxidation of peptidyl lysine residues to allysine in target proteins (PubMed:26954549). Catalyzes the post-translational oxidative deamination of peptidyl lysine residues in precursors of elastin and different types of collagens, a prerequisite in the formation of cross-links between collagens and elastin (PubMed:26307084). Required for somite boundary formation by catalyzing oxidation of fibronectin (FN1), enhancing integrin signaling in myofibers and their adhesion to the myotendinous junction (MTJ) (PubMed:26954549). Acts as a regulator of inflammatory response by inhibiting differentiation of naive CD4(+) T-cells into T-helper Th17 or regulatory T-cells (Treg): acts by interacting with STAT3 in the nucleus and catalyzing both deacetylation and oxidation of lysine residues on STAT3, leading to disrupt STAT3 dimerization and inhibit STAT3 transcription activity (PubMed:28065600). Oxidation of lysine residues to allysine on STAT3 preferentially takes place on lysine residues that are acetylated (By similarity). Also able to catalyze deacetylation of lysine residues on STAT3 (By similarity).[UniProtKB/Swiss-Prot Function]