

Product datasheet for **RC217575**

LOXL3 (NM_032603) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LOXL3 (NM_032603) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LOXL3
Synonyms:	LOXL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC217575 representing NM_032603
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCGACCTGTCACTGTCTGGCAGTGGAGCCCCTGGGGGCTGCTGCTGTGCCTGCTGTGCAGTTCGTGCT
 TGGGGTCTCCGTCCCCTTCCACGGGCCCTGAGAAGAAGGCCGGGAGCCAGGGGCTTCGGTTCGGCTGGC
 TGGCTTCCCAGGAAGCCCTACGAGGGCCGCTGGAGATACAGCGAGCTGGTGAATGGGGACCACCTCTGC
 GATGATGACTTACGCTGCAGGCTGCCACATCCTCTGCCGGGAGCTGGGCTTACAGAGGCCACAGGCT
 GGACCCACAGTGCCAAATATGGCCCTGGAACAGGCCGCATCTGGCTGGACAACCTGAGCTGCAGTGGGAC
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 CAGTGGTCTGCGGGATGCTGGGCTTCCCAGCGAAAAGAGGGTCAACCGGCCTTCTACAGGCTGCTAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >RC217575 representing NM_032603
 Red=Cloning site Green=Tags(s)

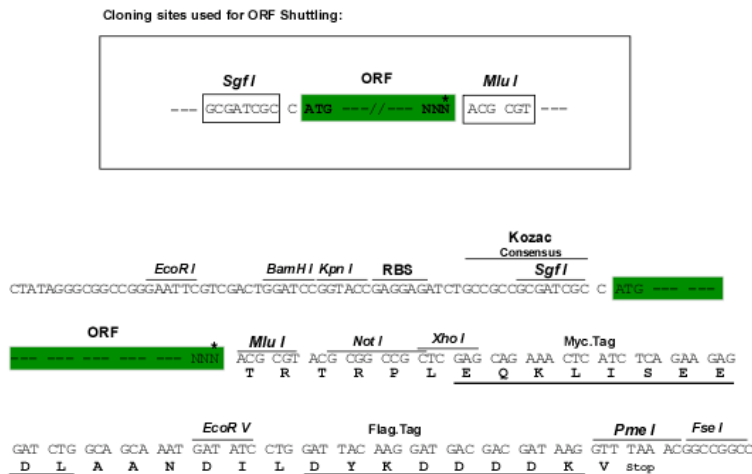
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GVICKDQRLPGFSDSNVIEVEHHLQVEEVIRPVGWGRRLPVTETGLVEVRLPDGWSQVCDKGWSAHNS
HVVCGMLGFPSEKRVNAAFYRLLAQRQQHSFGLHGVACVGTAEHLSLCSLEFYRANDTARCPGGGPAVVS
CVPGPVYAASSGQKQQQSKPQGEARVRLKGGGHPGEGRVEVLKASTWGTVCDRKWDLHAASVVCRELGF
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GGRSQHEGRVEVQIGGPGPLRWGLICGDDWGTLEAMVACRQLGLGYANHGLQETWYWDSGNITEVMSGV
RCTGTLSLDQCAHHGTHITCKRTGTRFTAGVICSETASDLLLHSALVQETAYIEDRPLHMLYCAAEEENC
LASSARSANWPYGHRRLLRFSSQIHNLRADFRPKAGRHSWWHECHGHYHSMDFIHYDILTPNGTKVA
EGHKASFLEDTECQEDVSKRYECANFGEQGITVGCWDLYRHDIDCQWIDITDVKPGNYILQVINPNFE
VAESDFTNNAMKCNCYDGHRIWVHNCHIGDAFSEEANRRRFERYPGQTSNQII
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4196_e05.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_032603

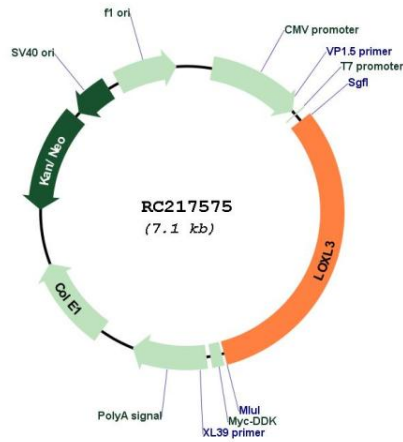
ORF Size: 2259 bp

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](#)

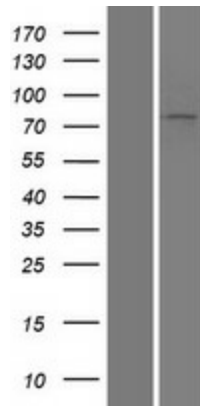
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032603.5
RefSeq Size:	3121 bp
RefSeq ORF:	2262 bp
Locus ID:	84695
UniProt ID:	P58215
Cytogenetics:	2p13.1
Protein Families:	Druggable Genome
MW:	80.3 kDa
Gene Summary:	This gene encodes a lysyl oxidase, which likely functions as an amine oxidase and plays a role in the formation of crosslinks in collagens and elastin. Deletion of the related gene in mouse causes neonatal mortality with cleft palate, spine deformity, and defects in collagen organization. A mutation in this gene was found in a family with Stickler syndrome. [provided by RefSeq, Sep 2016]

Product images:



Circular map for RC217575



Western blot validation of overexpression lysate (Cat# [LY410000]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217575 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).