

## Product datasheet for RC204205

### L3HYPDH (NM\_144581) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	L3HYPDH (NM_144581) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	L3HYPDH
Synonyms:	C14orf149
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204205 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGGAGAGCGCGTGGCGGTGCCCTGGCTGCCCCGCATGATCCAGGGACGCCGGTGTGTGCGTGGTGG  
ACATGCACACGGGCGGCGAGCCCTTGCATCGTGTGGCGGGGTGCCGGAGGTGTCTGGGCCACCCCT  
GCTGGCCAAGCGGCGCTACATGCGCCAGCACCTTGACCACGTGCGGCGACGGCTCATGTTGAGCCCGA  
GGGCACCGGGACATGTACGGGGCGGTCTAGTCCCGAGCGAGCTGCCGGACGCGCATCTGGGCGTCTGT  
TCCTGCACAACGAGGGCTACAGTCCATGTGCGGCCACGCAGTGTGGCGCTGGGCGCTTCGCTTTGGA  
CTTCGGGCTTGTGCCGGGCCCCCTGCGGGCACCCGCGAGGCCCGCGTCAATATCCACTGCCCTGCGGG  
CTGGTGACCGCCTTCGTGGCATGCGAGGACGGCCGAGCCACGGACCGGTGCGCTTCCACAGCGTCCCGG  
CCTTCGTGCTGGCCACAGATCTCATGGTGGATGTTCTGGACATGGAAAGGTGATGGTGGACATTGCATA  
TGGCGGTGCATTTATGCATTTGTTACTGCTGAAAAGTTAGGACTAGACATTTGTTCTGCAAAGACCAGG  
GACCTTGTGGATGCAGCGAGTGCAGTGACAGAGGCAGTGAAGCTCAGTTTAAAATTAATCATCTGATA  
GTGAAGACCTTGCTTTTATATGGAATATTAACAGATGGAAAGATGCTTATACCAAGGAACCAAC  
CACCAACATTTGTGTTTTGCAGATGAACAGGTTGACAGAAGTCCCACTGGCTCAGGAGTGACAGCCCGA  
ATTGCCTTACAGTATCACAAAGGCTTCTGGAAGTGAACAGATGAGAGCCTTCAAAGCAGTGAAGT  
GCTCAGTATCACAGGAAAGCTGTGAGGGAAGCGAAATGTGGTATTTAAAGCTGTTATAGTGGAAAT  
ATCAGGACAAGCCATTACACGGGTACAGCAAGCTTTATAATAGAAGATGACGACCCATTGAGGGATGGA  
TTTCTTCTCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



[View online »](#)

**Protein Sequence:** >RC204205 protein sequence  
Red=Cloning site Green=Tags(s)

MESALAVPWLPPHDPGTPVL SVVDMHTGGEPLRIVLAGCPEVSGPTLLAKRRYMRQHLDHVRRRLMFEP  
 GHRDMYGAVLVPSELPAHLGVLFLHNEGYSSMCGHAVLALGRFALDFGLVPAPPAGTREARVNIHCPCG  
 LVTAFVACEDGRSHGPVRFHSPAFVLATDLMVDVPGHGKVMVDIAYGGAFYAFVTAEKLGLDICSAKTR  
 DLVDAASAVTEAVKAQFKINHPDSEDLAFLYGTILTDGKDAYTKEPTTNICVFADQVDRSPTGSGVTAR  
 IALQYHKGLLELNQMRAFKSSATGSVFTGKAVREAKCGDFKAVIVEVSGQAHYGTASFIIEDDDPLRDG  
 FLLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6430\\_a05.zip](https://cdn.origene.com/chromatograms/mk6430_a05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_144581

**ORF Size:** 1062 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\\_144581.1](#), [NP\\_653182.1](#)

**RefSeq Size:** 1381 bp

**RefSeq ORF:** 1065 bp

**Locus ID:** 112849

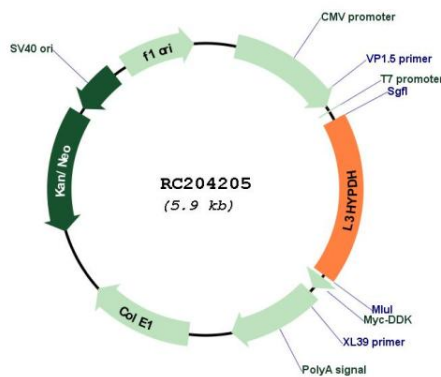
**UniProt ID:** [Q96EM0](#)

**Cytogenetics:** 14q23.1

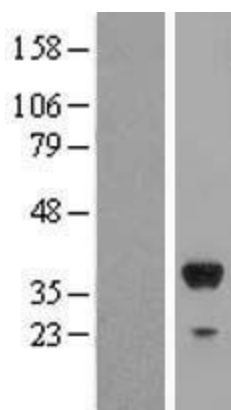
**MW:** 38.2 kDa

**Gene Summary:** The protein encoded by this gene is a dehydratase that converts trans-3-hydroxy-L-proline to delta(1)-pyrroline-2-carboxylate. This enzyme may function to degrade dietary proteins that contain trans-3-hydroxy-L-proline as well as other proteins such as collagen IV. The encoded protein can be converted to an epimerase by changing a threonine to a cysteine at a catalytic site. [provided by RefSeq, Sep 2016]

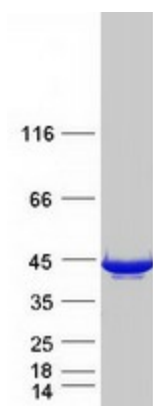
### Product images:



Circular map for RC204205



Western blot validation of overexpression lysate (Cat# [LY408289]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204205 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified L3HYPDH protein (Cat# [TP304205]). The protein was produced from HEK293T cells transfected with L3HYPDH cDNA clone (Cat# RC204205) using MegaTran 2.0 (Cat# [TT210002]).