

## Product datasheet for **RC222399**

### **DLL1 (NM\_005618) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DLL1 (NM_005618) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DLL1
Synonyms:	Delta; DELTA1; DL1; NEDBAS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC222399 representing NM\_005618  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCAGTCGGTGCAGCTGGCCCTGGCGGTGCTCTCGCCCTTGTGTGTGAGCTCTGGAGCTCTGGGG  
 TGTTTCAACTGAAGCTGCAGGAGTTCGTCAACAAGAAGGGGCTGCTGGGGAACCGCAACTGCTGCCGCGG  
 GGGCGCGGGGCCACCGCGTGCAGCTGCGGACCTTCTCCGCGTGTGCCTCAAGCACTACCAGGCCAGC  
 GTGTCCCCGAGCCGCTGCACCTACGGCAGCGCGTCAACCCCGTGTGGGCGTGCAGCTCTTACGTC  
 TGCCCCGAGCGGGGGCGCCGACTCCGCGTTCAGCAACCCATCCGCTTCCCTTCGGCTTACCTGGCC  
 GGGCACCTTCTCTGATTATTGAAGCTCTCCACACAGATTCTCCTGATGACCTCGCAACAGAAAACCCA  
 GAAAGACTCATCAGCCGCTGGCCACCCAGAGGCACCTGACGGTGGGCGAGGAGTGGTCCAGGACCTGC  
 ACAGCAGCGGCCGACGGACCTCAAGTACTCTACCGCTTCGTGTGTGACGAACACTACTACGGAGAGGG  
 CTGCTCCGTTTTCTGCCGTCGCCGGGACGATGCCTTCGGCCACTTACCTGTGGGGAGCGTGGGGAGAAA  
 GTGTGCAACCCTGGCTGGAAGGGCCCTACTGCACAGAGCCGATCTGCCTGCCTGGATGTGATGAGCAGC  
 ATGGATTTTGTGACAAACCAGGGGAATGCAAGTGCAGAGTGGGCTGGCAGGGCCGGTACTGTGACGAGTG  
 TATCCGCTATCCAGGCTGTCTCCATGGCACCTGCCAGCAGCCCTGGCAGTGCAACTGCCAGGAAGGCTGG  
 GGGGGCTTTTCTGCAACCAGGACCTGAACTACTGCACACACCATAAGCCCTGCAAGAATGGAGCCACCT  
 GCACCAACACGGGCCAGGGGAGCTACACTTGTCTTGGCCGCTGGGTACACAGGTGCCACCTGCGAGCT  
 GGGGATTGACGAGTGTGACCCAGCCCTTGTAGAACGGAGGGAGCTGCACGGATCTCGAGAACAGCTAC  
 TCCTGTACTGCCACCCGGCTTCTACGGCAAAATCTGTGAATTGAGTGCCATGACCTGTCCGGACGGCC  
 CTTGCTTTAACGGGGTTCGGTCTCAGACAGCCCGATGGAGGGTACAGCTGCCGCTGCCCGTGGGCTA  
 CTCGGGTTCAACTGTGAGAAGAAAATTGACTACTGCAGCTCTTACCCTGTTCTAATGGTGCCAAGTGT  
 GTGGACCTCGGTGATGCCTACCTGTGCCGTGCCAGGCCGGCTTCTCGGGAGGCACTGTGACGACAACG  
 TGGACGACTGCGCTCTCCCGTGCGCCAACGGGGCACCTGCCGGGATGGCGTGAACGACTTCTCCTG  
 CACCTGCCCGCTGGCTACACAGGCAGGAAGTGCAGTGCCCGCTCAGCAGGTGCGAGCACGCACCTGC  
 CACAATGGGGCCACCTGCCACGAGAGGGGCCACCGCTATGTGTGCGAGTGTGCCGAGGCTACGGGGGTC  
 CCAACTGCCAGTTCCTGCTCCCGAGCTGCCCGGGGCCAGCGGTGGTGGACCTACTGAGAAGCTAGA  
 GGGCCAGGGCGGGCCATCCCTGGGTGGCCGTGTGCCCGGGTTCATCCTTGCCTCATGCTGCTGCTG  
 GGCTGTGCCGCTGTGGTGGTCTGCGTCCGGCTGAGGCTGCAGAAGCACCGGCCCCAGCCGACCCCTGCC  
 GGGGGGAGACGGAGACCATGAACAACCTGGCCAAGTGCAGCGTGAAGAAGGACATCTCAGTCAGCATCAT  
 CGGGGCCACGCAGATCAAGAACCAACAAGAAGCGGACTTCCACGGGGACCACAGCGCCGACAAGAAT  
 GACTTCAAGGCCCGCTACCCAGCGGTGGACTATAACCTCGTGCAGGACCTCAAGGGTGACGACACCGCCG  
 TCAGGGACCGCACAGCAAGCGTGACACCAAGTGCAGCCCGAGGGCTCCTCAGGGGAGGAGAAGGGGAC  
 CCCGACCACACTCAGGGGTGGAGAAGCATCTGAAAGAAAAGGCCGGACTCGGGCTGTTCAACTTAAAA  
 GACACCAAGTACCAGTCCGTGTACGTATATCCGAGGAGAAGGATGAGTGCCTATAGCAACTGAGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC222399 representing NM\_005618  
Red=Cloning site Green=Tags(s)

MGSRCALALAVLSALLCQVWSSGVFELKLQEFVNKKGLLGNRNCCRGAGPPPCACRTFFRVCLKHYQAS  
 VSPEPPCTYGSVAVPVLGVDSFSLPDGGGADSAF SNP I R P F G F T W P G T F S L I I E A L H T D S P D D L A T E N P  
 E R L I S R L A T Q R H L T V G E E W S Q D L H S S G R T D L K Y S Y R F V C D E H Y Y G E G C S V F C R P R D D A F G H F T C G E R G E K  
 V C N P G W K G P Y C T E P I C L P G C D E Q H G F C D K P G E C K C R V G W Q G R Y C D E C I R Y P G C L H G T C Q Q P W Q C N C Q E G W  
 G G L F C N Q D L N Y C T H H K P C K N G A T C T N T G G S Y T C S C R P G Y T G A T C E L G I D E C D P S P C K N G G S C T D L E N S Y  
 S C T C P P G F Y G K I C E L S A M T C A D G P C F N G G R C S D S P D G G Y S C R C P V G Y S G F N C E K K I D Y C S S S P C S N G A K C  
 V D L G D A Y L C R C Q A G F S G R H C D D N V D D C A S S P C A N G G T C R D G V N D F S C T C P P G Y T G R N C S A P V S R C E H A P C  
 H N G A T C H E R G H R Y V C E C A R G Y G G P N C Q F L L P E L P P G P A V V D L T E K L E G Q G G P F W V A V C A G V I L V L M L L L  
 G C A A V V C V R L R L Q K H R P P A D P C R G E T E T M N N L A N C Q R E K D I S V S I I G A T Q I K N T N K K A D F H G D H S A D K N  
 D F K A R Y P A V D Y N L V Q D L K G D D T A V R D A H S K R D T K C Q P Q G S S G E E K G T P T T L R G G E A S E R K R P D S G C S T S K  
 D T K Y Q S V Y V I S E E K D E C V I A T E V

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6101\\_b08.zip](https://cdn.origene.com/chromatograms/mk6101_b08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



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

**ACCN:** NM\_005618

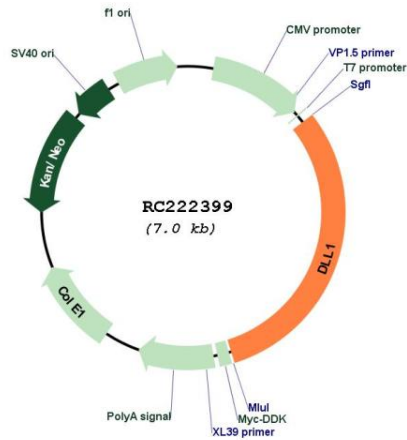
**ORF Size:** 2169 bp

**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](#)

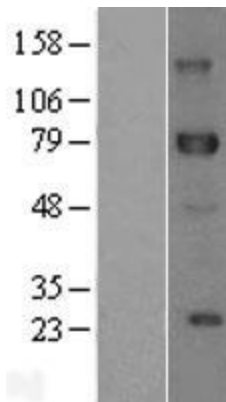
**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_005618.4</u>
<b>RefSeq Size:</b>	3366 bp
<b>RefSeq ORF:</b>	2172 bp
<b>Locus ID:</b>	28514
<b>UniProt ID:</b>	<u>O00548</u>
<b>Cytogenetics:</b>	6q27
<b>Domains:</b>	DSL, EGF_CA, EGF, EGF
<b>Protein Families:</b>	Adult stem cells, Cancer stem cells, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transmembrane
<b>Protein Pathways:</b>	Notch signaling pathway
<b>MW:</b>	77.9 kDa
<b>Gene Summary:</b>	DLL1 is a human homolog of the Notch Delta ligand and is a member of the delta/serrate/jagged family. It plays a role in mediating cell fate decisions during hematopoiesis. It may play a role in cell-to-cell communication. [provided by RefSeq, Jul 2008]

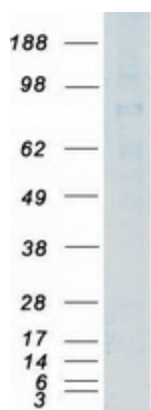
Product images:



Circular map for RC222399



Western blot validation of overexpression lysate (Cat# [LY401722]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222399 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DLL1 protein (Cat# [TP322399]). The protein was produced from HEK293T cells transfected with DLL1 cDNA clone (Cat# RC222399) using MegaTran 2.0 (Cat# [TT210002]).