

## Product datasheet for **SC113239**

### **DLL4 (NM\_019074) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	DLL4 (NM_019074) Human Untagged Clone
Tag:	Tag Free
Symbol:	DLL4
Synonyms:	AOS6; delta4; hdelta2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL6</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC113239 sequence for NM\_019074 edited (data generated by NextGen Sequencing)

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ATGGCGGCAGCGTCCCGGAGCGCCTCTGGCTGGGCGCTACTGCTGCTGGTGGCACTTTGG
CAGCAGCGCGCGGCCGCTCCGGCGTCTTCCAGCTGCAGCTGCAGGAGTTCATCAACGAG
CGCGGCGTACTGGCCAGTGGGCGGCCTTGCAGCCCGGCTGCCGACTTTCTTCCGCGTC
TGCTTNNAGCACTTCCAGGCGGTCTCGCCCCGACCCTGCACCTTCGGGACCGTCTCC
ACGCCGGTATTGGGACCAACTCCTTCGCTGTCCGGGACGACAGTAGCGGCGGGGGGCGC
AACCCCTCTCCAACCTGCCCTTCAATTTACCTGGCCGGGTACCTTCTCGCTCATCATCGAA
GCTTGGCACGCGCCAGGAGACGACCTGCGGCCAGAGGCCTTGCCACCAGATGCACTCATC
AGCAAGATCGCCATCCAGGGCTCCCTAGCTGTGGGTGAGAACTGGTTATTGGATGAGCAA
ACCAGCACCTCACAAGGCTGCGCTACTTACCAGGTCATCTGCAGTGACAACACTAT
GGAGACAACCTGCCGCTGTGCAAGAAGCGCAATGACCACTTCGGCCACTATGTGTGC
CAGCCAGATGGCAACTTGTCTGCCTGCCCGTTGGACTGGGGAATATTGCCAACAGCCT
ATCTGTCTTTCCGGCTGTATGAACAGAATGGCTACTGCAGCAAGCCAGCAGAGTGCCTC
TGCCGCCCAGGCTGGCAGGGCCGCTGTGTAACGAATGCATCCCCACAATGGCTGTCCG
CAGCGCACCTGCAGCACTCCCTGGCAATGACTTGTGATGAGGGCTGGGAGGCCTGTTT
TGTGACCAAGATCTCAACTACTGCACCCACCACTCCCCATGCAAGAATGGGGCAACGTGC
TCCAACAGTGGGAGCGAAGCTACACCTGCACCTGTGCCAGGCTACACTGGTGTGGAC
TGTGAGCTGGAGCTCAGCGAGTGTGACAGCAACCCCTGTGCAATGGAGGCGAGTGAAG
GACCAGGAGGATGGTACCCTGCTGTCTCCGGGCTACTATGGCCTGCATTGTGAA
CACAGCACCTTGAGCTGCGCCGACTCCCCCTGCTTCAATGGGGGCTCCTGCCGGGAGCGC
AACCAGGGGGCAACTATGCTTGTGAATGTCCCCCAACTTACCAGGCTCCAACCTGCGAG
AAGAAAGTGGACAGGTGACAGCAACCCCTGTGCCAACGGGGGACAGTGCCTGAACCGA
GGTCCAAGCCGCATGTGCCGCTGCCGCTGATTACAGGGCACCTACTGTGAACCTCAC
GTCAGCGACTGTGCCGTAACCCCTTGCGCCACGGTGGCACTTGCCATGACCTGGAGAAT
GGGCTCATGTGCACCTGCCCTGCCGCTTCTTGGCCGACGCTGTGAGGTGCGGACATCC
ATCGATGCCTGTGCCTCGAGTCCCTGCTTCAACAGGGCCACCTGTACACCGACCTCTCC
ACAGACACCTTTGTGTGCAACTGCCCTTATGGCTTTGTGGGCGAGCCGCTGCGAGTCCCC
GTGGGCTTGCCGCCAGCTTCCCCTGGGTGGCCGCTCTCGCTGGGTGTGGGCTGGCAGTG
CTGCTGGTACTGCTGGGCATGGTGGCAGTGGCTGTGCGGCAGCTGCGGCTTCGACGGCCG
GACGACGCGCAGCAGGGAAGCCATGAACAACCTTGTCCGACTTCCAGAAGGACAACCTGATT
CCTGCCGCCAGCTTAAAAACACAAACCAGAAGAAGGAGCTGGAAGTGGACTGTGGCCTG
GACAAGTCCAACCTGTGGCAAACAGCAAAACCACACATTGGACTATAATCTGGCCCCAGGG
CCCCTGGGGCGGGGGACCATGCCAGGAAAGTTTCCCACAGTGACAAGAGCTTAGGAGAG
AAGGCGCCACTGCGGTTACACAGTGAAGAGCCAGAGTGTCCGATATCAGCGATATGCTCC
CCCAGGGACTCCATGTACCAGTCTGTGTGTTGATATCAGAGGAGAGGAATGAATGTGTC
ATTGCCACGGAGGTATAA
    
```

Clone variation with respect to NM\_019074.3  
187 a=>n

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_019074 unedited  
 CCCCCGCCTGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAGCAG  
 AGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAGCGGCCGCGAA  
 TTCGGCACGAGGCTGCGCGCAGGCCGGGAACACGAGGCCAAGAGCCGAGCCCCAGCCGC  
 CTTGGTGCAGCGTACACCGGCACTAGCCCGCTTGCAGCCCCAGGATTAGACAGAAGACGC  
 GTCCTCGGCGCGGTGCGCGCCAGCCGTAGTCACCTGGATTACCTACAGCGGCAGCTGCA  
 GCGGAGCCAGCGAGAAGGCCAAAGGGGAGCAGCGTCCCGAGAGGAGCGCCTCTTTTTCAGG  
 GACCCCGCCGGCTGGCGGACGCGCGGGAAAGCGCGTCCGGAACAGAGCCAGATTGAGGG  
 CCCGCGGGTGGAGAGAGCGACGCCCGAGGGATGGCGGCAGCGTCCCGGAGCGCCTCTGG  
 CTGGGCGCTACTGCTGCTGGTGGCACTTTGGCAGCAGCGCGCGCCGGCTCCGGCGTCTT  
 CCAGCTGCAGCTGCAGGAGTTCATCAACGAGCGCGGCGTACTGGCCAGTGGGCGGCTTG  
 CGAGCCCCGGTGCCTGACTTTCTCCGCGTCTGCCTTAAGCACTCCAGGCGGTCGTCTC  
 GCCCGGACCTGCACCTTCGGGACCGTCTCCACGCGGTATTGGGCACCAACTCCTTCGC  
 TGTCCGGGACGACAGTAGCGCGGGGGGCGNCACCTCTNCACTGCCCTTCATNTCACT  
 GGCCGGGTACCTTCTCGCTCATCATCGAAGCTGGCCACGCGCCAGGAGACGACCTGGCGG  
 CAGAGGCCTTGNACAGATGCACTCATCAGCAAGATCGCCATCCAGGGCTCCCTAGCTG  
 TGGGTCAGAACTGGGTATGGGNATGAGCAACAGCACCTNACAGGCTGCGCTACTCTTACC  
 GGTACTCTGCATGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_019074 unedited  
 GTTTATCTATGNNACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTCTG  
 TACACATCTGTTTCATATTATAAATACACATTATATAAAAATAATGTTATAAAATGTAG  
 AAAGGTACAGTGCTTCTGATTCTTAAATTATTGAAATACTAGACTCCAAAATAAACTACAA  
 AAAAAAAAAAAAAAAAAAAAAATAAAACTCATATTATTGATTTCTGAAAACAGCTTTGAG  
 GGTGGTCTGGGGCAGTAGTGGACCAAAGCCAGGCTCGAGGTTGTGGAATGGGCTTGAG  
 GGAGGAAAGGGCCAGGCGGCGCAGCACCTGATTTCCCCTCAGTGGAATTTCCAACAC  
 ACTGCCCTGAGTGCCCCAGTTAGGCCTGGCACCTTGGCTGGTGGGAGGGGCAGGCCCTC  
 TCTTGCCCAAAGGGCCTAGACCAAAGAGCCAGGCTGCATACAGTAATTGGAGGCATGGG  
 GCANAAAAGCACTCCCCTCCCTNGAGCACTCACCTCACCTCCAGGGGAAACCCAGCAAGA  
 GACCCACCCAGTGGTTTTTCAACCCACAAGAGGCCCTGCCCTATTGGCCCCCTCTC  
 TCTTTCTGATTTGGGCCCAACTGTCGCCGTGGAGACCCGGGCCAAAGCACCTTTTGG  
 ACACCGAAGCCATTGGAGGCCACAAAACTTCCGGGCCCATGGGGCTACTGGCACCTC  
 TCTTCGGGAAAAAGGGCCGAACCCCGAAGGAGCCCCCTGGAGGCCCTTATGGGAGGG  
 GAAGGGCCCAATGGCTTCTCTCCCTTTTGGTCCCCCGGGGGGGGGCACTTGCATT  
 TTGATGCCCAAAGAACCCTAAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_019074

**Insert Size:**

4000 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_019074.2](#), [NP\\_061947.1](#)

**RefSeq Size:** 3383 bp

**RefSeq ORF:** 2058 bp

**Locus ID:** 54567

**UniProt ID:** [Q9NR61](#)

**Cytogenetics:** 15q15.1

**Domains:** DSL, EGF

**Protein Families:** Cancer stem cells, Druggable Genome, ES Cell Differentiation/IPS, Stem cell relevant signaling - DSL/Notch pathway, Transmembrane

**Protein Pathways:** Notch signaling pathway

**Gene Summary:** This gene is a homolog of the Drosophila delta gene. The delta gene family encodes Notch ligands that are characterized by a DSL domain, EGF repeats, and a transmembrane domain. [provided by RefSeq, Jul 2008]