

Product datasheet for **RC200005**

DLL3 (NM_016941) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLL3 (NM_016941) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DLL3
Synonyms:	SCDO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC200005 representing NM_016941
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCTCCCCACGGATGTCGGGCTCCTCTCCAGACTGTGATCCTAGCGCTCATTTTCTCCCCAGA
 CACGGCCCGCTGGCGTCTTCGAGCTGCAGATCCACTCTTTTCGGGCGGGTCCAGGCCCTGGGGCCCGCG
 GTCCCCCTGCAGCGCCCGCTCCCTGCGCCTCTTCTCAGAGTCTGCCTGAAGCCTGGGCTCTCAGAG
 GAGGCCGCGAGTCCCGTGCGCCCTGGGCGGGCGTGTAGTGCAGCGGACCGTCTACACCGAGCAGC
 CCGGAGCGCCCGCCTGATCTCCACTGCCGACGGCTCTTGCAGGTGCCCTTCGGGACGCCTGGCC
 TGGCACCTTCTTTTATCATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCGCTGG
 AGCCTGTGGCGCGTGGCTGGCAGGCGCGCTTGGCAGCCGGAGGCCGTGGGCCGGGACATTACG
 GCGCAGGCGCTGGGAGTGCCTTCTCGTACCGCGCGCTGCGAGCCGCTGCCGTGGGACCGCGTG
 CACGCGCTCTGCCGTCCGCGCAGCGCCCTCGCGGTGCGGTCCGGGACTGCGCCCTGCGCACCGCTC
 GAGGACGAATGTGAGGCGCGCTGGTGTGCCGAGCAGGCTGCAGCCCTGAGCATGGCTTCTGTGAACAGC
 CCGGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTGCACGGTCCCTGTCTCCACCAGCAGCTG
 CCTCAGCCCAGGGGCCCGTCTCTGCTACCACCGGATGCCTTGTCCCTGGGCTGGGCCCTGTGACGGG
 AACCCGTGTGCAATGGAGGCAGCTGTAGTGAGACACCAGGTCCTTTGAATGCACCTGCCCGCGTGGGT
 TCTACGGGCTGCGGTGTGAGGTGAGCGGGTGACATGTGCAGATGGACCTGTTCAACGGCGGCTTGTG
 TGTGGGGGTGCAGACCTGACTCTGCCTACATCTGCCACTGCCACCCGGTTTCCAAGGCTCAACTGT
 GAGAAGAGGGTGGACCGTGCAGCCTGCAGCCATGCCCAATGGCGACTCTGCCTGGACCTGGGCCACG
 CCCTGCGCTGCCGTGCCGCGCCGGCTTCGCGGTCTCGCTGCGAGCAGACTGGACGACTGCGCGGG
 CCGCGCTGCGCTAACGGCGGCACGTGTGTGAGGGCGGGCGCGCACCGCTGCTCCTGCGCGCTGGGC
 TTCGGCGCGCGACTGCCGCGAGCGCGGACCGTGCGCCGCGCGCCCTGTGCTCACGGCGCGCGCT
 GCTACGCCACTTCTCCGGCTCGTCTGCGCTTGCCTCCGGTACATGGGAGCGCGGTGTGAGTCCC
 AGTGCACCCGACGGCGCAAGCGCTTGCCTCGGGCCCGCGGGCTCAGGCCCGGGACCCCTCAGCGC
 TACCTTTTGCCTCCGGCTCTGGGACTGCTGTGGCGGGCGTGGCCGGCGTGCCTTGTGCTGGTCC
 ACGTGCGCCCGCTGGCCACTCCAGGATGCTGGGTCTCGCTTGTGGTGGGACCCCGGAGCCGTCAGT
 CCACGCACTCCCGGATGCACTCAACAACCTAAGGACGAGGAGGTTCCGGGGATGGTCCGAGCTCGTCC
 GTAGATTGAATCGCCCTGAAGATGTAGACCCTAAGGGATTTATGTCATATCTGCTCCTCCATCTACG
 CTGGGAGGTAGCGACGCCCTTTTCCCCCGCTACACACTGGGCGCGCTGGGCAGAGGCAGCACCTGCT
 TTTTCCCTACCCTTCTCGATTCTGTCCTGAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTAA

Protein Sequence:

>RC200005 representing NM_016941
 Red=Cloning site Green=Tags(s)

MVSPRMSGLLSQTVILALIFLPQTRPAGVFELQIHSFGPGPGAPRSPCSARLPCRLFFRVCLKPGLSE
 EAAESPCALGAALSARGPVYTEQPGAPAPDLPLPDGLLQVPRDAWPGTFSFIIETWREELGDQIGGPAW
 SLLARVAGRRRLAAGGPWARDIQRAGAWELRFSYRARCEPPAVGTACTRLCRPRSAPSRCGPGLRPCAPL
 EDECEAPLVCRAGCSPEHGFCEQPGECRCLEGTGWLCTVPVSTSSCLSPRGPSSATTGCLVPGPGPCDG
 NPCANGGSCSETPRSFECTCPRGFYGLRCEVSGVTCADGPCFNGGLCVGGADPDSAYICHCPPGFQGSNC
 EKRVDRCSLQPCRNGGLCLDLGHALRCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRCSALG
 FGGRDRCERADPCAARPCAHGGRCYAHFSGLVACAPGYMGARCEFPVHPDGASALPAAPPGLRPGDPQR
 YLLPPLGALLVAAGVAGAALLLVHVRRRGHSQDAGSRLLAGTPEPSVHALPDALNNLRTQEGSGDGPSSS
 VDWNRPEDVDPQGIYVISAPSIYAREVATPLFPPLHTGRAGQRQHLLFPYPSSILSVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8112_a01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_016941

ORF Size: 1854 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.

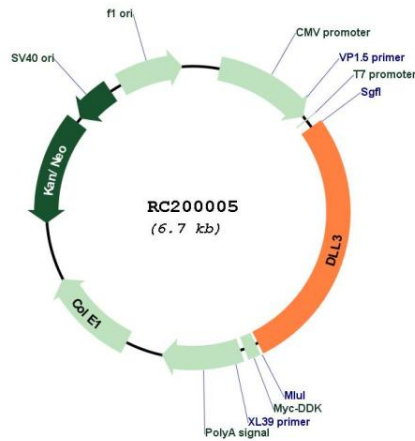
RefSeq: [NM_016941.4](#)

RefSeq Size: 2389 bp

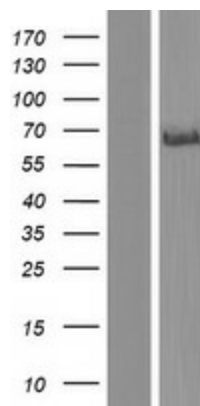
RefSeq ORF: 1857 bp

Locus ID: 10683
UniProt ID: [Q9NYJ7](#)
Cytogenetics: 19q13.2
Domains: EGF_CA, EGF, 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
MW: 64.6 kDa
Gene Summary: This gene encodes a member of the delta protein ligand family. This family functions as Notch ligands that are characterized by a DSL domain, EGF repeats, and a transmembrane domain. Mutations in this gene cause autosomal recessive spondylocostal dysostosis 1. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC200005



Western blot validation of overexpression lysate (Cat# [LY413792]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200005 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).