

Product datasheet for **RC222403**

DLL3 (NM_203486) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLL3 (NM_203486) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DLL3
Synonyms:	SCDO1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC222403 representing NM_203486
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCTCCCCACGGATGTCGGGCTCCTCTCCAGACTGTGATCCTAGCGCTCATTTCTCCCCAGA
 CACGGCCCGCTGGCGTCTTCGAGCTGCAGATCCACTCTTCGGGCGGGTCCAGGCCCTGGGCCCCGCG
 GTCCCCCTGCAGCGCCCGCTCCCTGCGCCTCTTCTCAGAGTCTGCCTGAAGCCTGGGCTCTCAGAG
 GAGGCCGCGAGTCCCGTGCGCCCTGGGCGGGCGTGTAGTGCAGCGGACCGTCTACACCGAGCAGC
 CCGGAGCGCCCGCCTGATCTCCACTGCCGACGGCTCTTGCAGGTGCCCTCCGGGACGCCTGGCC
 TGGCACCTTCTTTTCATCATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCCCTGG
 AGCCTGTGGCGCGCTGGCTGGCAGGCGGCGCTTGGCAGCCGGAGGCCCGTGGGCCGGGACATTACG
 GCGCAGGCGCCTGGGAGTGCCTTCTCGTACCGCGCGCTGCGAGCCGCTGCCGTGGGACCGCGTG
 CACGCGCTCTGCCGTCCGCGCAGCGCCCTCGCGGTGCGGTCCGGGACTGCGCCCTGCGCACCGCTC
 GAGGACGAATGTGAGGCGCCGCTGGTGTGCCGAGCAGGCTGCAGCCCTGAGCATGGCTTCTGTGAACAGC
 CCGGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTGCACGGTCCCTGTCTCCACCAGCAGCTG
 CCTCAGCCCCAGGGGCCGCTCTCTGCTACCACCGGATGCCTTGTCCCTGGGCTGGGCCCTGTGACGGG
 AACCCGTGTGCAATGGAGGCAGCTGTAGTGAGACACCAGGTCCTTTGAATGCACCTGCCCGCGTGGGT
 TCTACGGGCTGCGGTGTGAGGTGAGCGGGTGACATGTGCAGATGGACCTGCTTCAACGGCGGCTGTG
 TGTGGGGGTGCAGACCTGACTCTGCCTACATCTGCCACTGCCACCCGGTTTCCAAGGCTCAACTGT
 GAGAAGAGGGTGGACCGGTGCAGCCTGCAGCCATGCCCAATGGCGGACTCTGCCTGGACCTGGGCCAG
 CCCTGCGCTGCCGTCCGCGCCGGCTTCGCGGTCTCTCGCTGCGAGCAGACCTGGACGACTGCGCGGG
 CCGCGCCTGCGCTAACGGCGGCACGTGTGTGAGGGCGGCGCGCACCGCTGCTCTGCGCGCTGGGC
 TTCGGCGCCGCGACTGCCGCGAGCGCGGACCGTGCGCCGCGGCCCTGTGCTCACGGCGGCCGCT
 GCTACGCCCACTTCTCCGGCTCGTCTGCGCTTGCCTCCGGCTACATGGGAGCGCGGTGTGAGTCCC
 AGTGCACCCGACGGCGCAAGCGCTTGCCTCGGCCCGCCCGGGCTCAGGCCCGGGACCCCTCAGCGC
 TACCTTTTGCCTCCGGCTCTGGGACTGCTGTGGCCGCGGGCGTGGCCGGCGCTGCGCTTGTGTTCC
 ACGTGCGCCCGCGTGGCCACTCCAGGATGCTGGGTCTCGCTTGTGGCTGGGACCCCGGAGCCGTCAGT
 CCACGCACTCCCGGATGCACTCAACAACCTAAGGACGACAGGAGGTTCCGGGGATGGTCCGAGCTCGTCC
 GTAGATTGAATCGCCCTGAAGATGTAGACCCTCAAGGGATTTATGTCATATCTGCTCTCCATCTACG
 CTCGGGAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222403 representing NM_203486
 Red=Cloning site Green=Tags(s)

MVSPRMSGLLSQTVILALIFLPQTRPAGVFELQIHSFGPGPGAPRSPCSARLPCLFRFRVCLKPGLSE
 EAAEPCALGAALSARGPVYTEQPGAPAPDLPLPDGLLQVPRDAWPGTFSFIIETWREELGDQIGGPAW
 SLLARVAGRRRLAAGGWARDIQRAGAWELRFSYRARCEPPAVGTACTRLCRPRSAPSRCPGLRRCAPL
 EDECEAPLVCRAGCSPEHGFCEQPGECLGWTGPLCTVPVSTSSCLSPRGSSATTGCLVPGPGPCDG
 NPCANGGSCSETPRSFECTCPRGFYGLRCEVSGVTCADGPCFNGGLCVGGADPDSAYICHCPPGFQGSNC
 EKRVDRCSLQPCRNGGLCLDLGHALRCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRSCALG
 FGGRDCRERADPCARPCAHGGRCYAHFSGLVACAPGYMGARCEFPVHPDGASALPAAPPGLRPGDPQR
 YLLPPALGLLVAAGVAGAALLLVHVRRRGHSQDAGSRLLAGTPEPSVHALPDALNNLRTQEGSGDGPSS
 VDWNRPEDVDPQGIYVISAPSIYAREA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

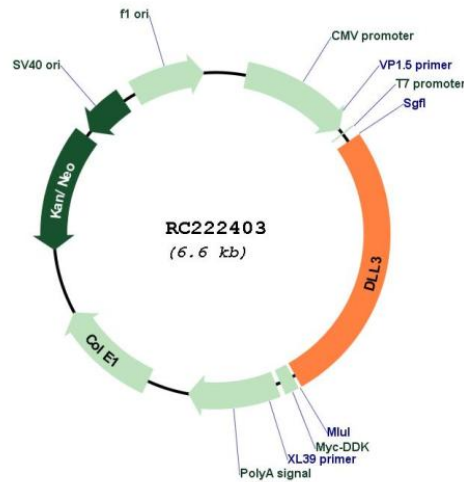
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_203486

ORF Size: 1761 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.
RefSeq:	NM_203486.3
RefSeq Size:	2052 bp
RefSeq ORF:	1764 bp
Locus ID:	10683
UniProt ID:	Q9NYJ7
Cytogenetics:	19q13.2
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:	61.2 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]