

Product datasheet for **RG200005**

DLL3 (NM_016941) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DLL3 (NM_016941) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DLL3
Synonyms:	SCDO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG200005 representing NM_016941
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTCTCCCCACGGATGTCGGGCTCCTCTCCAGACTGTGATCCTAGCGCTCATTTCTCCCCAGA
 CACGGCCCGCTGGCGTCTTCGAGCTGCAGATCCACTCTTCGGGCGGGTCCAGGCCCTGGGCCCCGCG
 GTCCCCCTGCAGCGCCCGCTCCCTGCGCCTCTTCTCAGAGTCTGCCTGAAGCCTGGGCTCTCAGAG
 GAGGCCGCGAGTCCCCGTGCGCCTGGGCGGGCGCTGAGTGCAGCGGACCGTCTACACCGAGCAGC
 CCGGAGCGCCCGCCTGATCTCCACTGCCGACGGCTCTTGCAGGTGCCCTCCGGGACGCCTGGCC
 TGGCACCTTCTTTTATCATCGAAACCTGGAGAGAGGAGTTAGGAGACCAGATTGGAGGGCCCCGCTGG
 AGCCTGCTGGCGCGCTGGCTGGCAGGCGGCGCTTGGCAGCCGGAGGCCCGTGGGCCGGGACATTACG
 GCGCAGGCGCCTGGGAGCTGCGCTTCTCGTACCGCGCGCTGCGAGCCGCTGCCGTGGGACCGCGTG
 CACGCGCTCTGCCGTCCGCGCAGCGCCCTCGCGGTGCGGTCCGGGACTGCGCCCTGCGCACCGCTC
 GAGGACGAATGTGAGGCGCCGCTGGTGTGCCGAGCAGGCTGCAGCCCTGAGCATGGCTTCTGTGAACAGC
 CCGGTGAATGCCGATGCCTAGAGGGCTGGACTGGACCCCTCTGCACGGTCCCTGTCTCCACCAGCAGCTG
 CCTCAGCCCCAGGGGCCGCTCTCTGCTACCACCGGATGCCTTGTCCCTGGGCTGGGCCCTGTGACGGG
 AACCCGTGTGCCAATGGAGGCAGCTGTAGTGAGACACCAGGTCCTTTGAATGCACCTGCCCGCTGGGT
 TCTACGGGCTGCGGTGTGAGGTGAGCGGGTGACATGTGCAGATGGACCTGCTTCAACGGCGGCTGTG
 TGTGGGGGTGCAGACCTGACTCTGCCTACATCTGCCACTGCCACCCGGTTTCCAAGGCTCAACTGT
 GAGAAGAGGGTGGACCGGTGCAGCCTGCAGCCATGCCGCAATGGCGGACTCTGCCTGGACCTGGGCCAG
 CCCTGCGCTGCCGTCCGCGCCGGCTTCGCGGTCTCGCTGCGAGCAGACTGGACGACTGCGCGGG
 CCGCGCTGCGCTAACGGCGGCACGTGTGTGGAGGGCGGCGCGCACCGCTGCTCCTGCGCGCTGGGC
 TTCGGCGCCGCGACTGCCGCGAGCGCGGACCGTGCGCCGCGGCCCTGTGCTCACGGCGGCCGCT
 GCTACGCCCACTTCTCCGGCTCGTCTGCGCTTGCCTCCGGCTACATGGGAGCGCGGTGTGAGTTCC
 AGTGCACCCGACGGCGCAAGCGCTTGCCTGGGCCCGCCGGGCTCAGGCCCGGGACCCCTCAGCGC
 TACCTTTTGCCTCCGGCTCTGGGACTGCTGCGCGGGCGTGGCCGGCGCTGCGCTTGTGCTGGTCC
 ACGTGCGCCCGCTGGCCACTCCAGGATGCTGGGTCTCGCTTGTGGTGGGACCCCGGAGCCGTCAGT
 CCACGCACTCCCGGATGCACTCAACAACCTAAGGACGACAGGAGGTTCCGGGGATGGTCCGAGCTCGTCC
 GTAGATTGAATCGCCCTGAAGATGTAGACCCTCAAGGGATTTATGTCATATCTGCTCCTCCATCTACG
 CTGGGAGGTAGCGACGCCCTTTTCCCCCGCTACACACTGGGCGCGCTGGGCAGAGGCAGCACCTGCT
 TTTTCCCTACCCTTCTCGATTCTGTCCTGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG200005 representing NM_016941
 Red=Cloning site Green=Tags(s)

MVSPRMSGLLSQTVILALIFLPQTRPAGVFELQIHSFGPGPGAPRSPCSARLPCRLFFRVCLKPGLSE
 EAAESPCALGAALSARGPVYTEQPGAPAPDLPLPDGLLQVPRDAWPGTFSFIIETWREELGDQIGGPAW
 SLLARVAGRRRLAAGGPWARDIQRAGAWELRFSYRARCEPPAVGTACTRLCRPRSAPSRCPGLRPCAPL
 EDECEAPLVCRAGCSPEHGFCEQPGECLGWTGPLCTVPVSTSSCLSPRGPSSATTGCLVPGPGPCDG
 NPCANGGSCSETPRSFECTCPRGFYGLRCEVSGVTCADGPCFNGGLCVGGADPDSAYICHCPPGFQGSNC
 EKRVDRCSLQPCRNGGLCLDLGHALRCRCRAGFAGPRCEHDLDDCAGRACANGGTCVEGGGAHRSCALG
 FGGRDCRERADPCAARPCAHGGRCYAHFSGLVACAPGYMGARCFPVHPDGASALPAAPPGLRPGDPQR
 YLLPVALGLLVAAGVAGAALLLVHVRRRGHSQDAGSRLLAGTPEPSVHALPDALNNLRTQEGSGDGPSS
 VDWNRPEDVDPQGIYVISAPSIYAREVATPLFPPLHTGRAGQRQHLLFPYPSSILSVK

TRTRPLE - GFP Tag - V

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

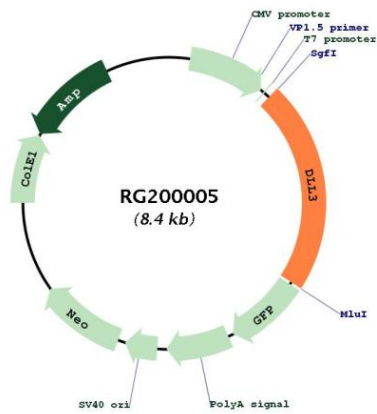
Domains: EGF_CA, EGF, EGF

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

Protein Pathways: Notch signaling pathway

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 RG200005