*h*DLL4 VersaClone cDNA

Catalog Number: RDC1102

Specifications:

Gene:	*h*DLL4
Accession:	NP_061947
Insert size:	2070bp
Concentration:	10µg at 0.2µg/µL

Description

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

Preparation and Storage

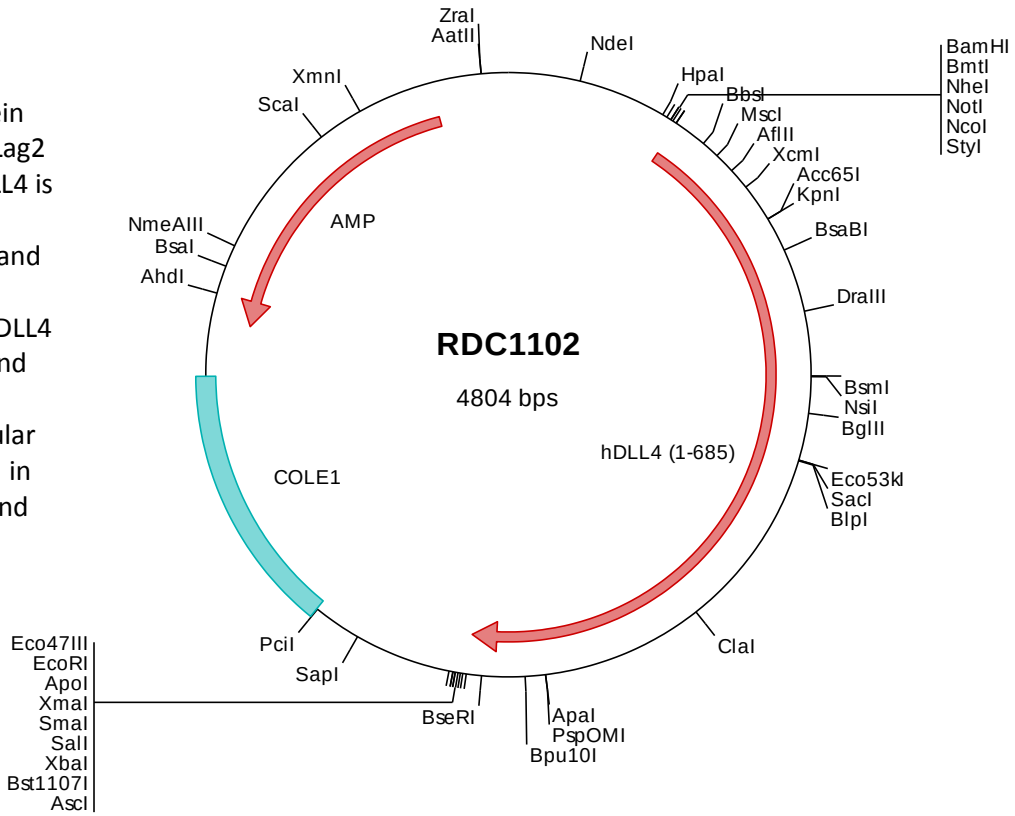
Formulation	cDNA is provided in 10 mM Tris-Cl, pH 8.5
Shipping	Ships at ambient temperature
Stability	1 year from date of receipt when stored at -20°C to -80°C
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

*h*DLL4 cDNA Plasmid

DLL4 delta-like 4 (Drosophila)
[*Homo sapiens* (human)]

Also known as: hdelta2

Summary:
DLL4 is a type I membrane protein belonging to the Delta/Serrate/Lag2 (DSL) family of Notch ligands. DLL4 is expressed highly and selectively within the arterial endothelium and has been shown to function as a ligand for Notch 1 and Notch 4. DLL4 expression is induced by VEGF and regulates the proliferation of endothelial tip cells during vascular sprouting. DLL4 may be involved in regulating tumor angiogenesis and play a key role in tumor neovascularity.



FOR RESEARCH USE ONLY

NOT FOR USE IN HUMANS

> RDC1102 Plasmid DNA Sequence

```
   1  tcgcgcgttt cggtgatgac ggtgaaaacc tctgacacat gcagctcccg gagacggtca cagcttgtct gtaagcggat gccgggagca gacaagcccg
 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
 401  ggagacgtgt taacaagctt ggatccgata tcgctagcgc ggccgccacc atggcggcag cgtcccggag cgcctctggc tgggcgctac tgctgctggt
 501  ggcactttgg cagcagcgcg cggccggctc cggcgtcttc cagctgcagc tgcaggagtt catcaacgag cgcggcgtac tggccagtgg gcggccttgc
 601  gagcccggct gccggacttt cttccgcgtc tgccttaagc acttccaggc ggtcgtctcg cccggaccct gcaccttcgg gaccgtctcc acgccggtat
 701  tgggcaccaa ctccttcgct gtccgggacg acagtagcgg cgggggggcgc aaccctctcc aactgccctt caatttcacc tggccgggta ccttctcgct
 801  catcatcgaa gcttggcacg cgccaggaga cgacctgcgg ccagaggcct tgccaccaga tgcactcatc agcaagatcg ccatccaggg ctccctagct
 901  gtgggtcaga actggttatt ggatgagcaa accagcaccc tcacaaggct gcgctactct taccgggtca tctgcagtga caactactat ggagacaact
1001  gctcccgcct gtgcaagaag cgcaatgacc acttcggcca ctatgtgtgc cagccagatg gcaacttgtc ctgcctgccc ggttggactg gggaatattg
1101  ccaacagcct atctgtcttt cgggctgtca tgaacagaat ggctactgca gcaagccagc agagtgcctc tgccgcccag gctggcaggg ccggctgtgt
1201  aacgaatgca tcccccacaa tggctgtcgc cacggcacct gcagcactcc ctggcaatgt acttgtgatg agggctgggg aggcctgttt tgtgaccaag
1301  atctcaacta ctgcacccac cactccccat gcaagaatgg ggcaacgtgc tccaacagtg ggcagcgaag ctacacctgc acctgtcgcc caggctacac
1401  tggtgtggac tgtgagctgg agctcagcga gtgtgacagc aacccctgtc gcaatggagg cagctgtaag gaccaggagg atggctacca ctgcctgtgt
1501  cctccgggct actatggcct gcattgtgaa cacagcacct tgagctgcgc cgactccccc tgcttcaatg ggggctcctg ccgggagcgc aaccaggggg
1601  ccaactatgc ttgtgaatgt ccccccaact tcaccggctc caactgcgag aagaaagtgg acaggtgcac cagcaacccc tgtgccaacg ggggacagtg
1701  cctgaaccga ggtccaagcc gcatgtgccg ctgccgtcct ggattcacgg gcacctactg tgaactccac gtcagcgact gtgcccgtaa cccttgcgcc
1801  cacggtggca cttgccatga cctggagaat gggctcatgt gcacctgccc tgccggcttc tctggccgac gctgtgaggt gcggacatcc atcgatgcct
1901  gtgcctcgag tccctgcttc aacagggcca cctgctacac cgacctctcc acagacacct ttgtgtgcaa ctgcccttat ggctttgtgg gcagccgctg
2001  cgagttcccc gtgggcttgc cgcccagctt cccctgggtg gccgtctcgc tgggtgtggg gctggcagtg ctgctggtac tgctgggcat ggtggcagtg
2101  gctgtgcggc agctgcggct tcgacggccg gacgacggca gcagggaagc catgaacaac ttgtcggact tccagaagga caacctgatt cctgccgccc
2201  agcttaaaaa cacaaaccag aagaaggagc tggaagtgga ctgtggcctg gacaagtcca actgtggcaa acagcaaaac cacacattgg actataatct
2301  ggccccaggg cccctggggc gggggaccat gccaggaaag tttcccacca gtgacaagag cttaggagag aaggcgccac tgcggttaca cagtgaaaag
2401  ccagagtgtc ggatatcagc gatatgctcc cccagggact ccatgtacca gtctgtgtgt ttgatatcag aggagaggaa tgaatgtgtc attgccacgg
2501  aggtataagg cgcgccagta tactctagag tcgacacccg gggaattcct cgagcgctcg tctctagctt ggcgtaatca tggtcatagc tgtttcctgt
2601  gtgaaattgt tatccgctca caattccaca caacatacga gccggaagca taaagtgtaa agcctggggt gcctaatgag tgagctaact cacattaatt
2701  gcgttgcgct cactgcccgc tttccagtcg ggaaacctgt cgtgccagct gcattaatga atcggccaac gcgcggggag aggcggtttg cgtattgggc
2801  gctcttccgc ttcctcgctc actgactcgc tgcgctcggt cgttcggctg cggcgagcgg tatcagctca ctcaaaggcg gtaatacggt tatccacaga
2901  atcaggggat aacgcaggaa agaacatgtg agcaaaaggc cagcaaaagg ccaggaaccg taaaaaggcc gcgttgctgg cgtttttcca taggctccgc
3001  cccctgacg agcatcacaa aaatcgacgc tcaagtcaga ggtggcgaaa cccgacagga ctataaagat accaggcgtt tccccctgga agctccctcg
3101  tgcgctctcc tgttccgacc ctgccgctta ccggatacct gtccgccttt ctcccttcgg gaagcgtggc gctttctcaa tgctcacgct gtaggtatct
3201  cagttcggtg taggtcgttc gctccaagct gggctgtgtg cacgaacccc ccgttcagcc cgaccgctgc gccttatccg gtaactatcg tcttgagtcc
3301  aacccggtaa gacacgactt atcgccactg gcagcagcca ctggtaacag gattagcaga gcgaggtatg taggcggtgc tacagagttc ttgaagtggt
3401  ggcctaacta cggctacact agaaggacag tatttggtat ctgcgctctg ctgaagccag ttaccttcgg aaaaagagtt ggtagctctt gatccggcaa
3501  acaaaccacc gctggtagcg gtggtttttt tgtttgcaag cagcagatta cgcgcagaaa aaaaggatct caagaagatc ctttgatctt ttctacgggg
3601  tctgacgctc agtggaacga aaactcacgt taagggattt tggtcatgag attatcaaaa aggatcttca cctagatcct tttaaattaa aaatgaagtt
3701  ttaaatcaat ctaaagtata tatgagtaaa cttggtctga cagttaccaa tgcttaatca gtgaggcacc tatctcagcg atctgtctat ttcgttcatc
3801  catagttgcc tgactccccg tcgtgtagat aactacgata cgggagggct taccatctgg ccccagtgct gcaatgatac cgcgagaccc acgctcaccg
3901  gctccagatt tatcagcaat aaaccagcca gccggaaggg ccgagcgcag aagtggtcct gcaactttat ccgcctccat ccagtctatt aattgttgcc
4001  gggaagctag agtaagtagt tcgccagtta atagtttgcg caacgttgtt gccattgcta caggcatcgt ggtgtcacgc tcgtcgtttg gtatggcttc
4101  attcagctcc ggttcccaac gatcaaggcg agttacatga tcccccatgt tgtgcaaaaa agcggttagc tccttcggtc ctccgatcgt tgtcagaagt
4201  aagttggccg cagtgttatc actcatggtt atggcagcac tgcataattc tcttactgtc atgccatccg taagatgctt ttctgtgact ggtgagtact
4301  caaccaagtc attctgagaa tagtgtatgc ggcgaccgag ttgctcttgc ccggcgtcaa tacgggataa taccgcgcca catagcagaa ctttaaaagt
4401  gctcatcatt ggaaaacgtt cttcggggcg aaaactctca aggatcttac cgctgttgag atccagttcg atgtaaccca ctcgtgcacc caactgatct
4501  tcagcatctt ttactttcac cagcgtttct gggtgagcaa aaacaggaag gcaaaatgcc gcaaaaaagg gaataagggc gacacggaaa tgttgaatac
4601  tcatactctt ccttttcaa tattattgaa gcatttatca gggttattgt ctcatgagcg gatacatatt tgaatgtatt tagaaaaata aacaaatagg
4701  ggttccgcgc acatttcccc gaaaagtgcc acctgacgtc taagaaacca ttattatcat gacattaacc tataaaaata ggcgtatcac gaggcccttt
4801  cgtc
```

> RDC1102 Translated Insert Sequence

```
   1  maaasrsasg wallllvalw qqraagsgvf qlqlqefine rgvlasgrpc epgcrtffrv clkhfqavvs pgpctfgtvs tpvlgtnsfa vrddssgggr
 101  nplqlpfnft wpgtfsliie awhapgddlr pealppdali skiaiqgsla vgqnwlldeq tstltrlrys yrvicsdnyy gdncsrlckk rndhfghyvc
 201  qpdgnlsclp gwtgeycqqp iclsgcheqn gycskpaecl crpgwqgrlc neciphngcr hgtcstpwqc tcdegwgglf cdqdlnycth hspcknqatc
 301  snsgqrsytc tcrpgytgvd celelsecds npcrnggsck dqedgyhclc ppgyyglhce hstlscadsp cfnggscrer nqganyacec ppnftgsnce
 401  kkvdrctsnp canggqclnr gpsrmcrcrp gftgtycelh vsdcarnpca hggtchdlen glmctcpagf sgrrcevrts idacasspcf nratcytdls
 501  tdtfvcncpy gfvgsrcefp vglppsfpwv avslgvglav llvllgmvav avrqlrlrrp ddgsreamnn lsdfqkdnli paaqlkntnq kkelevdcgl
 601  dksncgkqqn htldynlapg plgrgtmpgk fphsdkslge kaplrlhsek pecrisaics prdsmyqsvc liseernecv iatev
```