

Product datasheet for **RC206197**

LAYN (NM_178834) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LAYN (NM_178834) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LAYN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206197 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGCCGGGAACCGCGCTACAGGCGGTGCTGCTGGCCGTGCTGCTGGTGGGGCTGCGGGCCGCGACGG
GTCGCCTGCTGAGTGGGCAGCCAGTCTGCCGGGAGGGACACAGAGGCCCTTGTTATAAAGTCATTTACTT
CCATGATACTTCTCGAAGACTGAACTTTGAGGAAGCCAAAGAAGCCTGCAGGAGGGATGGAGGCCAGCTA
GTCAGCATCGAGTCTGAAGATGAACAGAAACTGATAGAAAAGTTCATTGAAAACCTTTGCCATCTGATG
TGACTTCTGGATTGGGCTCAGGAGCGTGAGGAGAAACAAAGCAATAGCACAGCCTGCCAGGACCTTTA
TGCTTGACTGATGGCAGCATATACAATTTAGGAACTGGTATGTGGATGAGCCGTCCTGCGGCAGCGAG
GTCTGCGTGGTGTCATGTACCATCAGCCATCGGCACCCGCTGGCATCGGAGGCCCTACATGTTCCAGTGGA
ATGATGACCGGTGCAACATGAAGAACAATTTCAATTTGCAAATATTCTGATGAGAAACCAGCAGTTCCTTC
TAGAGAAGCTGAAGGTGAGGAAACAGAGCTGACAACACCTGTACTTCCAGAAGAAACACAGGAAGAAGAT
GCCAAAAAACATTTAAAGAAAGTAGAGAAGCTGCCTTGAATCTGGCCTACATCCTAATCCCCAGCATT
CCCTTCTCCTCCTTGTGGTCACCACAGTTGTATGTTGGGTTGGATCTGTAGAAAAAGAAAACGGGA
GCAGCCAGACCCTAGCACAAAGAAGCAACACACCATCTGGCCCTCCTCACCAGGAAACAGCCCGGAC
CTAGAGGTCTACAATGTCATAAGAAAACAAAGCGAAGCTGACTTAGCTGAGACCCGGCCAGACCTGAAGA
ATATTTCAATCCGAGTGTGTTCCGGGAGAAGCCACTCCCGATGACATGTCTTGTGACTATGACAACATGGC
TGTGAACCATCAGAAAGTGGGTTTATGACTCTGGTGAGCGTGGAGAGTGGATTTGTGACCAATGACATT
TATGAGTCTCCCGAGACCAATGGGGAGGAGTAAGGAGTCTGGATGGGTGGAAAATGAAATATATGGTT
AT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC206197 protein sequence
 Red=Cloning site Green=Tags(s)

MRPGTALQAVLLAVLLVGLRAATGRLLSGQPVCRGGTQRPCYKVIYFHDTSRRLNFEAKEACRRDGGQL
 VSIESEDEQKLEKFIENLLPSDGFWIGLRRREEKQSNSTACQDLYAWTDGSI SQFRNWYVDEPSCGSE
 VCVVMYHQPSAPAGIGPYMFQWDDRCNMKNFICKYSDEKPAVPSREAEGETELTTPVLPEETQEED
 AKKTFKESREAALNLAYILIPSIPLLLLLLVVTTVVCWVVICRKRKREQDPSTKKQHTIWPSPHQNSPD
 LEVYVNIKQSEADLAETRDLKNI SFRVCSGEATPDDMSCDYDNMAVNPSESGFMLVSVESGFVTNDI
 YEFSPDQMGRSKESGWENEIYGY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6318_c04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_178834

ORF Size: 1122 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_178834.5](#)

RefSeq Size: 2748 bp

RefSeq ORF: 1125 bp

Locus ID: 143903

UniProt ID: [Q6UX15](#)

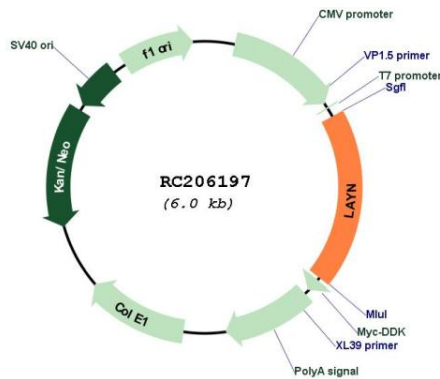
Cytogenetics: 11q23.1

Protein Families: Transmembrane

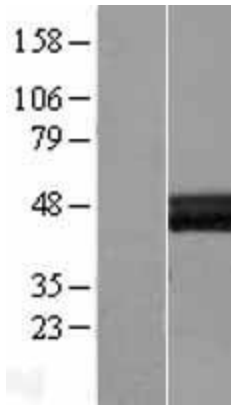
MW: 42.3 kDa

Gene Summary: Receptor for hyaluronate.[UniProtKB/Swiss-Prot Function]

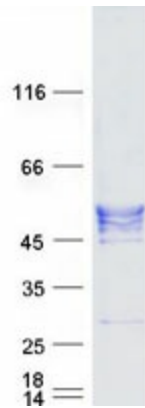
Product images:



Circular map for RC206197



Western blot validation of overexpression lysate (Cat# [LY405851]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206197 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified LAYN protein (Cat# [TP306197]). The protein was produced from HEK293T cells transfected with LAYN cDNA clone (Cat# RC206197) using MegaTran 2.0 (Cat# [TT210002]).