

## Product datasheet for RC239956

### Anillin (ANLN) (NM\_001284301) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Anillin (ANLN) (NM_001284301) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ANLN
Synonyms:	FSGS8; scra; Scraps
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC239956 representing NM_001284301 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATCCGTTTACGGAGAACTGCTGGAGCGAACCCGTGCCAGGCGAGAGAATCTTCAGAGAAAAATGG  
CTGAGAGGCCACAGCAGCTCCAAGTCTATGACTCATGCTAAGCGAGCTAGACAGCCACTTTCAGAAGC  
AAGTAACCAGCAGCCCTCTCTGGTGGTGAAGAGAAATCTTGTACAAAACCATCGCCATCAAAAAACGC  
TGTTCTGACAACACTGAAGTAGAAGTTTCTAACTTGAAAAATAAACCAACAGTTGAGTCGACATCTGCAA  
AATCTTGTCTCCAAGTCTGTGTCTCCTCAGGTGCAGCCACAAGCAGCAGATACCATCAGTGATTCTGT  
TGCTGTCCCGGCATCACTGCTGGGCATGAGGAGAGGGCTGAACTCAAGATTGGAAGCAACTGCAGCCTCC  
TCAGTTAAAACACGTATGCAAAAACCTTGCAAGCAACGGCGCCGTTGGGATAATGATGATATGACAGATG  
ACATTCCTGAAAGCTCACTCTTCTACCAATGCCATCAGAGGAAAAGGCTGCTTCCCCTCCCAGACCTCT  
GCTTCAAATGCCTCGGCAACTCCAGTTGGCAGAAGGGCCGCTGGCCAATCTTGTGCAACTATTTGC  
TCCTGGGAAGATGATGTAATCACTCATTTGCAAAAACAAACAGTGTACAAGAACAGCCTGGTACCGCTT  
GTTTATCCAAATTTTCTCTGCAAGTGGAGCATCTGCTAGGATCAATAGCAGCAGTGTAAAGCAGGAAGC  
TACATTCTGTTCCAAAGGGATGGCGATGCCTCTTTGAATAAAGCCCTATCCTCAAGTGCTGATGATGCG  
TCTTTGGTTAATGCCTCAATTTCCAGCTCTGTGAAAGCTACTTCTCCAGTGAAATCTACTACATCTATCA  
CTGATGCTAAAAGTTGTGAGGGACAAAACCTGAGCTACTTCAAAAACCTCTATTAGTCTCTGAAAAC  
GGGGGTATCGAAACCAATTGTGAAGTCACTTTATCCCAGACAGTTCCATCCAAGGGAGAATTAAGTAGA  
GAAATTTGTCTGCAATCTCAATCTAAAGACAAATCTACGACACCAGGAGGAACAGGAATTAAGCCTTTCC  
TGGAACGCTTTGGAGAGCGTTGTCAAGAACATAGCAAAGAAAGTCCAGCTCGTAGCACACCCACAGAAC  
CCCCATTATTACTCCAAATACAAAGGCCATCCAAGAAAGATTATCAAGCAAGACACATCTTCATCTACT  
ACCCATTTAGCACAAACAGCTCAAGCAGGAACGTCAAAAAGAACTAGCATGTCTTCTGTTGGCGATTGACA  
AGGGCAATATATGGAGTGCGAAAAAGGGCGAACTCAAAAAGCAAACAATAAGAAACCAACAGGAAAC  
TCACTGTGAGGCACTCCCTCAAAAAACCAAGGTGTTTCAAAAACCTCAGTCACTTCCAGTAACAGAA  
AAGGTGACCGAAAACAGATACCAGCAAAAATTTAGTACAGAACCTAAAGAAGTGATACGTGAAATTTG



View online »

AGATGAGTGTGGATGATGATGATATCAATAGTTCGAAAGTAATTAATGACCTCTTCAGTGATGTCCTAGA  
 GGAAGGTGAAGTATGAGAGAAGAGCCAAGAGGAGATGGATCAAGCATTAGCAGAAAGCAGCGAAGAA  
 CAGGAAGATGCACTGAATATCTCCTCAATGTCTTTACTTGCACCATTGGCACAACAGTTGGTGTGGTAA  
 GTCCAGAGAGTTTGTGTCCACACTAGACTGGAATTGAAAGACACCAGCAGAAGTGATGAAAGTCCAAA  
 ACCAGGAAAATCCAAAGAACTCGTGTCCCTCGAGCTGAATCTGGTGATAGCCTTGGTCTGAAGATCGT  
 GATCTTCTTTACAGCATTGATGCATATAGATCTCAAAGATTCAAAGAAACAGAACGTCCATCAATAAAGC  
 AAGTGATTGTTTCGGAAGGAAGATGTTACTTCAAACTGGATGAAAAAATATGCCTTTCTTGTCAAGT  
 TAATATCAAACAGAAAATGCAGGAACCTCAATAACGAAAATAAATATGCAACAGACAGTGATCTATCAAGCT  
 AGCCAGGCTCTTAACTGTGTGTTGATGAAGAACATGAAAAAGGTCCTAGAAGAAGCTGAAGCAGAAA  
 GACTTCTTCTAATTGCAACTGGGAAGAGAACACTTTTGTGTTGATGAATTGAATAAATTGAAGAACGAAGG  
 ACCTCAGAGGAAGAATAAGGCTAGTCCCAAGTGAATTTATGCCATCAAAGGATCAGTTACTTTGTCA  
 GAAATCCGCTTGCTCTAAAAGCAGATTTTGTCTGCAGTACGGTTCAGAAAACAGATGCAGCAAATTACT  
 ATTACTTAATTACTAAAAGCAGGAGCTGAAAATATGGTAGCCACACCATTAGCAAGTACTTCAAACCTC  
 TCTAACGGTGATGCTCTGACATTCACTACTACATTTACTCTGCAAGATGTATCCAATGACTTTGAATA  
 AATATTGAAGTTACAGCTTGGTCAAAAAGAAAGATCCCTCAGGCCTTGATAAGAAGAAAAAACATCCA  
 AGTCCAAGGCTATTACTCAAAGCGACTCCTCACATCTATAACCACAAAAGCAACATTCATTCTTCAGT  
 CATGGCCAGTCCAGGAGGTCTTAGTGCTGTGCGAACCCAGCAACTTCGCCCTTGTGGATCTTACACATTA  
 TCATTGTCTTCAGTAGGAAATACTAAGTTTGTCTGGACAAGGTCCCCTTTTATCTTCTTTGGAAGGTC  
 ATATTTATTTAAAAATAAATGTCAAGTGAATTCAGTGTGGAAGAAAGAGGTTTCTAACCATATTTGA  
 AGATGTTAGTGGTTTTGGTGCCTGGCATCGAAGATGGTGTGTTCTTTCTGGAACTGTATATCTTATTGG  
 ACTTATCCAGATGATGAGAAACGCAAGAATCCCATAGGAAGGATAAATCTGGCTAATTGTACCAGTCGC  
 AGATAAGAACAGCAACAGAGAATTTTGTGCAAGACGCAACACTTTTGAATTAATTACTGTCCGACCACA  
 AAGAGAAGATGACCGAGAGACTTTGTGACGCAATGACGGGACACACTCTGTGTTACCAAGAAGTGGCTG  
 TCTGCAGATACTAAAGAAGAGCGGATCTCTGGATGCAAAAACCTCAATCAAGTCTTGTGATATTCGCC  
 TCTGGCAACTGATGCTTGTACAAACCTATTGAAAAGCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239956 representing NM\_001284301

Red=Cloning site Green=Tags(s)

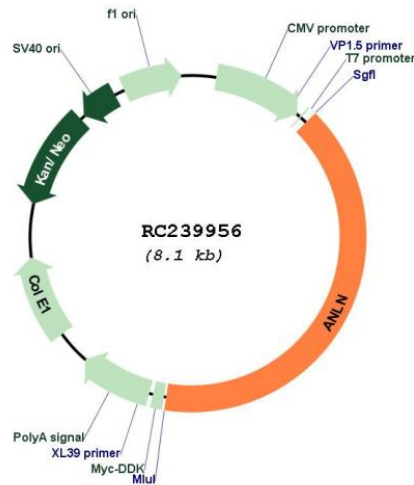
MDPFTEKLLERTRARRENLRKMAERPTAAPRSMTHAKRARQPLSEASNQQPLSGGEEKSCTKPSPSKKR  
 CSDNTEVEVSNLENKQPVVESTSAKSCSPSPVSPVQVQQAADTISDSVAVPASLLGMRRGLNSRLEATAAS  
 SVKTRMQKLAQRRRWDNDMTDDIPESLFSMPSEEKAAAPRRPLLSNASATPVGRRGRLANLAATIC  
 SWEDDVNHSFAKQNSVQEQPGTACLKFSASGASARINSSSVKQEFCSQRDGDASLNKALSSSADDA  
 SLVNASISSSVKATSPVKSTTSITDAKSCEGQNPPELLPKTPI SPLKTGVSKPIVKSTLSQTVPKSGELSR  
 EICLQSQSKDKSTTPGGTGIKPFLERFGERCQEHSKESPARSTPHRTPIITPNTKAIQERLFKQDTSST  
 THLAQQLKQERQKELACLGRFDKGNISAEKGGNSKSKQLETKQETHCQSTPLKKHQVSKTQSLPVTE  
 KVTENQIPAKNSSTEPKEVIREIEMSVDDDDINSSKVINDLFSDVLEEGELDMEKSQEEMDQALAESSEE  
 QEDALNISSMSLLAPLAQTVGVVSPESLVSTPRLELKDTSRDESPKPGKFQRTVRPRAESGDSLSEDR  
 DLLYSIDAYRSQRFKETERPSIKQVIVRKEDVTSKLDEKNNAFPCQVNIKQKMQELNNEINMQQTVIYQA  
 SQALNCCVDEEHGKGSLEEAEERLLL IATGKRTLLIDELNKLKNEGPRKKNKASPQSEFMPSKGSVTL  
 EIRLPLKADFVSTVQKPDAAANYYYL IILKAGAENMVATPLASTNSLNGDALFTTTFTLQDVSNDFEI  
 NIEVYSLVQKDP SGLDKKKTSKSKAITPKRLLTSITTKSNIHSSVMASPGGLSAVRTSNFALVGSYTL  
 SLSSVGNTKFVLDKVPFLSSLEGHYLIKQVNSSVEERGFLTIFEDVSGFGAWHRRWCVLSGNCISYW  
 TYPDDEKRNPIGRINLANCTSRQIEPANREFCARRNTFELITVRPQREDDRETLVQCRDRTL CVTKNWL  
 SADTKEERDLWMQKLNQVLVDIRLWQPDACYKPIGKP

TRTRPLEQKLI SEEDLAANDILDYKDDDDK

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001284301

ORF Size: 3261 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001284301.3</u>
<b>RefSeq Size:</b>	4693 bp
<b>RefSeq ORF:</b>	3264 bp
<b>Locus ID:</b>	54443
<b>UniProt ID:</b>	<u>Q9NQW6</u>
<b>Cytogenetics:</b>	7p14.2
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	120.5 kDa
<b>Gene Summary:</b>	This gene encodes an actin-binding protein that plays a role in cell growth and migration, and in cytokinesis. The encoded protein is thought to regulate actin cytoskeletal dynamics in podocytes, components of the glomerulus. Mutations in this gene are associated with focal segmental glomerulosclerosis 8. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]