

## Product datasheet for RC239954

### Anillin (ANLN) (NM\_001284302) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Anillin (ANLN) (NM_001284302) 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:	>RC239954 representing NM_001284302 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGATCCGTTTACGGAGAACTGCTGGAGCGAACCCGTGCCAGGCGAGAGAATCTTCAGAGAAAAATGG  
CTGAGAGGCCACAGCAGCTCCAAGTCTATGACTCATGCTAAGCGAGCTAGACAGCCACTTTCAGAAGC  
AAGTAACCAGCAGCCCTCTCTGGTGGTGAAGAGAAATCTTGTACAAAACCATCGCCATCAAAAAACGC  
TGTTCTGACAACACTGAAGTAGAAGTTTCTAAGTTGAAAAATAAACCAACAGTTGAGTCGACATCTGCAA  
AATCTTGTCTCCAAGTCTGTGTCTCCTCAGGTGCAGCCACAAGCAGCAGATACCATCAGTGATTCTGT  
TGCTGTCCCGGCATCACTGCTGGGCATGAGGAGAGGGCTGAACTCAAGATTGGAAGCAACTGCAGCCTCC  
TCAGTTAAAACACGTATGCAAAAACCTGCGAGCAACGGCGCCGTTGGGATAATGATGATATGACAGATG  
ACATTCCTGAAAGCTCACTCTTCTACCAATGCCATCAGAGGAAAAGGCTGCTTCCCTCCAGACCTCT  
GCTTTCAAATGCCTCGGCAACTCCAGTTGGCAGAAGGGCCGCTGGCCAATCTTGTGCAACTATTTGC  
TCCTGGGAAGATGATGTAATCACTCATTTGCAAAAACAAACAGTGTACAAGAACAGCCTGGTACCGCTT  
GTTTATCCAAATTTTCTCTGCAAGTGGAGCATCTGCTAGGATCAATAGCAGCAGTGTAAAGCAGGAAGC  
TACATTCTGTTCCAAAGGGATGGCGATGCCTCTTTGAATAAAGCCCTATCCTCAAGTGCTGATGATGCG  
TCTTTGGTTAATGCCTCAATTTCCAGCTCTGTGAAAGCTACTTCTCCAGTGAAATCTACTACATCTATCA  
CTGATGCTAAAAGTTGTGAGGGACAAAACCTGAGCTACTTCAAAAACCTCTATTAGTCTCTGAAAAC  
GGGGGTATCGAAACCAATTGTGAAGTCACTTTATCCCAGACAGTTCCATCCAAGGGAGAATTAAGTAGA  
GAAATTTGTCTGCAATCTCAATCTAAAGACAAATCTACGACACCAGGAGGAACAGGAATTAAGCCTTTCC  
TGGAACGCTTTGGAGAGCGTTGTCAAGAACATAGCAAAGAAAGTCCAGCTCGTAGCACACCCACAGAAC  
CCCCATTACTCCAAATACAAAGGCCATCCAAGAAAGATTATCAAGCAAGACACATCTTCATCTACT  
ACCCATTTAGCACAAACAGCTCAAGCAGGAACGTCAAAAAGAACTAGCATGTCTTCTGTTGGCGATTGACA  
AGGGCAATATATGGAGTGCAGAAAAAGGGGAACTCAAAAAGCAAACAATAAGAAACCAACAGGAAAC  
TCACTGTGAGAGCACTCCCTCAAAAAACCAAGGTGTTTCAAAAACCTCAGTCACTTCCAGTAACAGAA  
AAGGTGACCGAAAACAGATACCAGCAAAAATTTAGTACAGAACCTAAAGTGATACGTGAAATTGAGA



[View online >](#)

TGAGTGTGGATGATGATGATATCAATAGTTCGAAAGTAATTAATGACCTCTTCAGTGATGTCCTAGAGGA  
 AGGTGAAC TAGATATGGAGAAGAGCCAAGAGGAGATGGATCAAGCATTAGCAGAAAAGCAGCGAAGAACAG  
 GAAGATGCACTGAATATCTCCTCAATGTCTTTACTTGCACCATTGGCACAAAACAGTTGGTGTGGTAAAGTC  
 CAGAGAGTTTAGTGTCCACACCTAGACTGGAATTGAAAGACACCAGCAGAAGTGATGAAAGTCCAAAACC  
 AGGAAAATCCAAAGAACTCGTGTCCCTCGAGCTGAATCTGGTGATAGCCTTGGTCTGAAGATCGTGAT  
 CTTCTTTACAGCATTGATGCATATAGATCTCAAAGATTCAAAGAAAACAGAACGTCATCAATAAAGCAGG  
 TGATTGTTCCGGAAGGAGATGTTACTTCAAACCTGGATGAAAAAATAATGCCTTTCCTGTCAAGTTAA  
 TATCAAACAGAAAATGCAGGAACCTAATAACGAAATAAATATGCAACAGACAGTGATCTATCAAGCTAGC  
 CAGGCTCTTAACTGCTGTGTTGATGAAGAACATGGAAGGGTCCCTAGAAGAAGCTGAAGCAGAAAAGAC  
 TTCTTCTAATTGCAACTGGGAAGAGAACACTTTTGATTGATGAATTGAATAAATTGAAGAACGAAGGACC  
 TCAGAGGAAGAATAAGGCTAGTCCCAAAGTGAATTTATGCCATCCAAAGGATCAGTTACTTTGTGAGAA  
 ATCCGCTTGCCTCTAAAAGCAGATTTTGTCTGCAGTACGGTTCAGAAACCAGATGCAGCAAATTACTATT  
 ACTTAATTATACTAAAAGCAGGAGCTGAAAATATGGTAGCCACACCATTAGCAAGTACTTCAAACCTCT  
 TAACGGTGATGCTCTGACATTCACTACTACATTTACTCTGCAAGATGTATCCAATGACTTTGAAATAAAT  
 ATTTGAAGTTTACAGCTTGGTGCAAAAGAAAGATCCCTCAGGCCTTGATAAGAAGAAAAAACATCCAAGT  
 CCAAGGCTATTACTCAAAGCGACTCCTCACATCTATAACCACAAAAAGCAACATTCATTCTTCAGTCAT  
 GGCCAGTCCAGGAGGCTTAGTGCTGTGCGAACCAAGCAACTTCGCCCTTGTGGATCTTACACATTATCA  
 TTGCTTTCAGTAGGAAATACTAAGTTTGTCTGGACAAGTCCCTTTTTATCTTCTTGGAAAGTCCATA  
 TTTATTTAAAAATAAAATGTCAAGTGAATTCAGTGTGGAAGAAAGAGGTTTTCTAACCATATTTGAAGA  
 TGTTAGTGGTTTTGGTGCCTGGCATCGAAGATGGTGTGTTCTTTCTGGAAACTGTATCTTATTGGACT  
 TATCCAGATGATGAGAAACGCAAGAATCCCATAGGAAGGATAAATCTGGCTAATTGTACCAGTCGTCAGA  
 TAGAACCGCCACACAGAGAATTTTGTGCAAGACGCAACTTTTGAATTAATTACTGTCCGACCACAAG  
 AGAAGATGACCGAGAGACTCTTGTGACCAATGCAGGGACACACTCTGTGTTACCAAGAAGTGGCTGTCT  
 GCAGATACTAAAAGAAGCGGGATCTCTGAGTGCAAAACTCAATCAAGTCTTGTGATATTCGCTCT  
 GGCAACCTGATGCTTGTCTACAACTATTGAAAGCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC239954 representing NM\_001284302  
 Red=Cloning site Green=Tags(s)

MDPFTEKLLERTRARRENLRKMAERPTAAPRSMTHAKRARQPLSEASNQQPLSGGEEKSCTKPSKPKR  
 CSDNTEVEVSNLENKQPVVESTSAKSCSPSPVSPVQVQQAADTISDSVAVPASLLGMRRGLNSRLEATAAS  
 SVKTRMQKLAQRWRDNDMTDDIPESLSPMPSEEKAASPPRPLLSNASATPVGRRGLANLAATIC  
 SWEDDVNHSFAKQNSVQEQPGTACLKFSASGASARINSSSVKQEFCSQRDGDASLNKALSSADDA  
 SLVNASISSSVKATSPVKSTTSITDAKSCEGQNPPELLPKTPI SPLKTGVSKPIVKSTLSQTVPKSGELSR  
 EICLQSQSKDKSTTPGGTGKPFLERFGERCQEHSEKESPARSTPHRTPIITPNTKAIQERLFKQDTSST  
 THLAQQLKQERQKELACLGRFDKGNISAEKGGNSKSKQLETKQETHCQSTPLKHKQGVSKTQSLPVTE  
 KVTENQIPAKNSSTEPKVIIEIMSVDVDDINSKVINDLFSDVLEEGELDMEKSQEEEMDQALAESSEEQ  
 EDALNISSMSLLAPLAQTVGVVSPESLSTPRLELKDTSRDESPKPGKFORTRVPRAESGDSLGSEDRD  
 LLYSIDAYRSQRFKETERPSIKQVIVRKEDVTSKLDKNNAPFCQVNIKQKMQELNNEINMQQTVIYQAS  
 QALNCCVDEEHGKGSLEEAEERLLL IATGKRTLLIDELNKLKNEGPQRKNKASQSEFMPKSGSVTLSE  
 IRLPLKADFCSTVQKPDAAANYYLIIILKAGAENMVATPLASTNSLNGDALFTTTFTLQDVSNDFEIN  
 IEVYSLVQKDPVGLDKKKKTSKSKAITPKRLLTSITTKSNIHSSVMASPGGLSAVRTSNFALVGSYTL  
 LSSVGNTKFVLDKVPFLSLEGHYLYKIKCQVNSVEERGFLTIFEDVSGFGAWHRRWCVLGSNCISYWT  
 YPDEKRNPIGRINLANCTSRQIEPANREFCARRNTFELITVRPQREDDRETLVQSCRDTLCVTKNWL  
 S ADTKEERDLWMQKLNQVLVDIRLWQPDACYKPIGKP

TRTRPLEQKLI SEEDLAANDILDYKDDDDK

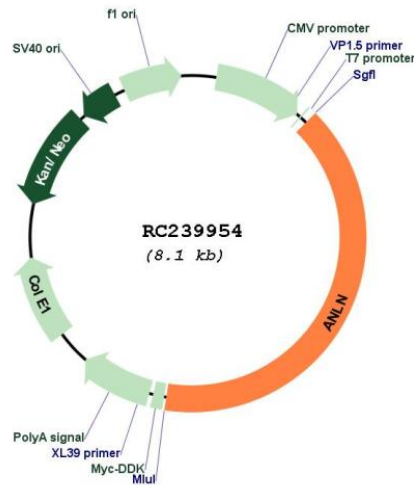
**Restriction Sites:**

Sgfl-MluI

## Cloning Scheme:



## Plasmid Map:



ACCN: NM\_001284302

ORF Size: 3258 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_001284302.3</u>
<b>RefSeq Size:</b>	4690 bp
<b>RefSeq ORF:</b>	3261 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>	120.3 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]